

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

**ALABAMA POWER COMPANY  
PLANT BARRY  
ASH POND**

**July 31, 2023**

Prepared for

Alabama Power Company  
Birmingham, Alabama

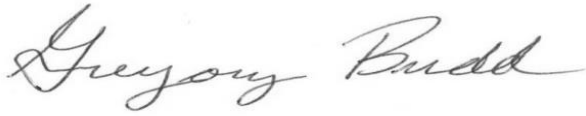
By

Southern Company Services  
Earth Science and Environmental Engineering



## CERTIFICATION STATEMENT

This *2023 Semi-Annual Groundwater Monitoring and Corrective Action Report, Alabama Power Company – Plant 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.



7/31/2023

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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, this 2023 Semi-Annual Groundwater Monitoring and Corrective Action Report has been prepared to document the first 2023 semi-annual groundwater monitoring activities at the Alabama Power Company (APC) Plant Barry Ash Pond (Site) and to satisfy the requirements of § 257.90(e), ADEM Admin. Code r. 335-13-15-.06(1)(e), and Part E of AO 18-094-GW. Semi-annual monitoring and associated reporting for Plant Barry Ash Pond is performed in accordance with the monitoring requirements § 257.90 through § 257.98 and ADEM Admin. Code r. 335-13-15-.06(1) through r. 335-13-15-.06(9).

The CCR unit began the monitoring period in corrective action pursuant to § 257.98 and ADEM Admin. Code r. 335-13-15-.06(9). Statistically significant increases (SSI) of Appendix III constituents over background were identified in the results of the first detection monitoring event and assessment monitoring was initiated in January 2018. Statistically significant levels (SSL) of Appendix IV parameters above groundwater protection standards 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.

Statistical evaluation of assessment monitoring data identified SSLs of Appendix IV parameters arsenic and cobalt during the first semi-annual monitoring event of 2023. The following summarizes results and activities conducted during the first semi-annual monitoring periods of 2023:

- Submitted the 2022 Annual Groundwater Monitoring and Corrective Action Report on January 31, 2023.
- Continued the Laboratory Treatability Studies for geochemical manipulation using injection, which was selected as one of the corrective measures described in the Groundwater Remedy Selection Report. The laboratory treatability studies include the following tasks:
  - Batch testing to evaluate removal of constituents of interest (COI), and selection of the optimum reagents and doses for column tests.
  - Column testing to evaluate removal of COIs by mixing treatment reagents with site-specific impacted groundwater and applying to site-specific soils (aquifer solids) in columns. Appendix III and IV constituents were measured in the column effluents to determine the reduction of COIs in groundwater, and to evaluate any unintended consequences of treatment (e.g., release of constituents from soils).
  - Selective sequential extraction of post-column (treated) soils to help determine the sequestration mechanisms and stability of the COIs and their host solids.
  - After treatment, the post-column (treated) soils were leached with upgradient (background) groundwater from the Site in additional column studies, to help assess long-term stability of the COIs and their host solids.
- Completed the first semi-annual groundwater sampling event between April 3, 2023 and April 24, 2023.
- Conducted a site-wide monitoring well water level gauging event on June 11, 2023, to include as a potentiometric surface map for the first 2023 semi-annual monitoring period.

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

- Complete the Laboratory Treatability Studies and draft and submit a Class V UIC permit application for the geochemical manipulation using injection. The treatability studies report will be included with the Class V UIC permit application.
- Conduct a geogenic study for site monitoring well BY-AP-MW-17V that has exhibited elevated concentrations of combined radium 226 + 228 that will be included with the first 2024 Semi-Annual Groundwater Monitoring and Corrective Action report.
- Conduct the second semi-annual monitoring event in the fall of 2023 and submit the annual groundwater monitoring and corrective action report summarizing the findings to ADEM by January 31, 2024.

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

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

|   |
|---|
| Assessment Monitoring Initiated: January 15, 2018 |
| Monitoring Period: January 1 - July 31, 2023      |
| Beginning Status: Corrective Action               |
| Ending Status: Corrective Action                  |

**Statistical Analysis Results \***

**Appendix III SSIs**

| <b>Parameter</b> | <b>Wells</b>   |
|------------------|--|
| Boron            | BY-AP-MW-1, BY-AP-MW-9, BY-AP-MW-10, BY-AP-MW-16.  |
| Calcium          | BY-AP-MW-1, BY-AP-MW-4, 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-4, 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-7, BY-AP-MW-11, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, BY-AP-MW-16.   |
| pH               | BY-AP-MW-2, BY-UP-MW-3, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-10.   |
| 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-4, 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**

| <b>Parameter</b> | <b>Wells</b>  |
|------------------|---|
| 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-14, BY-AP-MW-15, BY-AP-MW-16. |
| Cobalt           | 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**

|                          |                  |
|--------------------------|------------------|
| Remedy Selection Date:   | October 29, 2021 |
| Initiated During Period: | Yes              |
| Ongoing During Period:   | Yes              |

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## ABBREVIATIONS

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



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

## **1.0 INTRODUCTION**

In accordance with the United States Environmental Protection Agency (EPA) coal combustion residual (CCR) rule (40 CFR Part 257, Subpart D), the State of Alabama Department of Environmental Management (ADEM) Admin. Code Ch. 335-13-15, and ADEM Administrative Order (AO) No. 18-094-GW, this 2023 Semi-Annual Groundwater Monitoring and Corrective Action Report has been prepared to document the first 2023 semi-annual groundwater monitoring activities at the Plant Barry Ash Pond. Semi-annual monitoring and associated reporting for Plant Barry Ash Pond is performed in accordance with the monitoring requirements § 257.90 through § 257.98 and ADEM Admin. Code r. 335-13-15-.06(1) through r. 335-13-15-.06(9).

Semi-Annual Groundwater Monitoring and Corrective Action Reports include an update on groundwater delineation activities completed since the submittal of the Facility Plan for Groundwater Investigation (November 13, 2018) and corrective action activities completed since the submittal of the Corrective Action Groundwater Monitoring Program (January 27, 2022).

## **2.0 MONITORING PROGRAM STATUS**

The site is currently in corrective action and APC will continue implementation of the selected groundwater remedies identified in the Groundwater Remedy Selection Report and the Corrective Action Groundwater Monitoring Program. 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.

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.

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

### 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**, provide illustrations 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 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  $3.0 \times 10^{-7}$  cm/s.

### 3.2.1 Uppermost Aquifer

The uppermost aquifer beneath the site generally corresponds to Unit 2 and 3 sands, which are part of the Watercourse Aquifer system. The Watercourse Aquifer system is bounded by low permeability Unit 1 and Unit 4. At the site, the Watercourse Aquifer generally consists of fine to medium grained sands with discrete gravelly, coarse sand and gravel. Clay beds and lenses are prevalent in Unit 2 especially to the west and south-southeast. 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. During seasonal flood events from rising river stages, groundwater flow direction temporarily changes and water flows from the river towards the aquifer, resulting in temporary groundwater level rise in the vicinity of the riverbanks.

Seasonal variations of 5 to 7 feet are typical at the Site. These fluctuations are consistent in monitoring wells across the Site. A potentiometric surface map is presented in **Section 4.0**.

### 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. Table 1a, Compliance Monitoring Well Network Details, Table 1b, Delineation 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) 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  $3.0 \times 10^{-7}$  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. 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**

Monitoring well replacement or abandonment activities were not performed during the first 2023 semi-annual monitoring 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, Analytical Data Summary**.

### **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 ADEM on April 15, 2019, to conform State monitoring requirements under the CCR rule to Federal requirements. The variance:

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

## **3.5 GROUNDWATER SAMPLING AND ANALYSIS**

Site compliance wells are sampled semi-annually. The spacing between sampling events is sufficient to yield independent groundwater samples and a general representation of the different climatic or meteorological seasons that create a degree of natural variability in groundwater quality.

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

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

### **3.5.1 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 in the designated size and type of laboratory-supplied containers required for specific parameters. Sample bottles were pre-preserved by the laboratory.

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

### **3.5.3 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) in Greensburg, Pennsylvania. Both APCEL and Pace are accredited by National Environmental Laboratory Accreditation Program (NELAP) and maintain a NELAP certification for all parameters analyzed. **Table 2, Parameters and Reporting Limits** lists 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 Monitoring Period Sampling Events Summary**

As required by § 257.90(e) and ADEM Admin. Code r. 335-13-15-.06(1)(e), the following describes monitoring-related activities performed during the monitoring period. The first semi-annual monitoring event was conducted between April 3 and April 24, 2023.

Groundwater samples were analyzed for the full list of Appendix III and Appendix IV parameters during the monitoring event. Additionally, general chemistry and monitored natural attenuation monitoring parameters are sampled and analyzed for each monitoring event. These analytes have been incorporated for

continued evaluations of geochemical facies and their evolution over time. These analytes will also support geochemical modeling and evaluations associated with monitored natural attenuation. These parameters include:

- Calcium (filtered)
- Iron (total and dissolved)
- Silicon (total and dissolved)
- Silica (total and dissolved)
- Sodium (total and dissolved)
- Sulfide
- Potassium
- Aluminum (total and dissolved)
- Manganese
- Magnesium (total and filtered)
- Nitrate-Nitrite
- Total Alkalinity, Carbonate Alkalinity, Bicarbonate Alkalinity
- Total Organic Carbon.

All groundwater sampling activities were conducted by APC Field and Water Services. Pace Analytical Services 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 event 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 April 2023 sampling event, a potentiometric surface map was not generated due to flood conditions and construction dewatering activities. In response, a comprehensive site-wide monitor well gauging event was conducted on June 11, 2023. During the June 2023 gauging event, groundwater elevations ranged from 6.03 to 0.89 feet above MSL from west (near Gypsum Pond) to east (Ash Pond). **Figure 6, Potentiometric Surface Contour Map (June 11, 2023)**, depicts groundwater elevations and inferred groundwater flow direction during the June 2023 monitor well gauging event. 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.

As shown on **Figure 6**, groundwater flows from south to north across the Site, consistent with previous events. Tidal influences in river stage likely influence groundwater elevations, especially in closer proximity to the river. River stages varied from approximately 1.1 feet to 1.4 feet elevation during the June 11, 2023 gauging event and are reflected in groundwater elevations presented north and east of the Ash Pond. A convergence of flow from the north and south in the vicinity of well BY-AP-MW-14 is apparent, as presented on **Figure 6**.

Recent groundwater elevation data have 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  $2.1 \times 10^{-2}$  cm/sec and  $6.75 \times 10^{-3}$  cm/sec with an average of  $1.0 \times 10^{-2}$  cm/sec at the Ash Pond. Long duration pump testing of the Watercourse Aquifer revealed an average hydraulic conductivity of  $3.3 \times 10^{-3}$  cm/sec. The pumping test hydraulic conductivity value of  $3.3 \times 10^{-3}$  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 Calculations.**

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 2023 semi-annual sampling event.



## 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 (RPD) Calculations**, provides the relative percent differences for sample and sample duplicates during the first semi-annual monitoring event of 2023. All RPDs were below 20% for the first 2023 semi-annual sampling event.

Analytical data reviewed provided low-level or trace detections in field and or equipment blanks during the monitoring period sampling event. **Table 4b, Field QC: Blank Detections** provides a summary of low-level detections observed during the first 2023 semi-annual monitoring event. Each of these detections was 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.

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 SSI over background. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The most recent sample from each downgradient well is compared to the background limit to identify 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 corrective action 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 (UTL) were calculated using pooled upgradient well data for Appendix IV parameters with a target of 95% confidence and 95% coverage. The confidence and coverage levels for nonparametric tolerance limits are dependent 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 corrective action 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 first 2023 semi-annual monitoring event were statistically analyzed in accordance with the professional engineer (PE)-certified Statistical Analysis Plan (October 2017 and revised in August 2020) by Groundwater Stats Consulting. Appendix III statistical analysis was performed to determine if constituents have returned to background levels. Appendix IV monitoring parameters were evaluated to determine if concentrations statistically exceeded the established groundwater protection standard.

#### 5.3.1 Appendix III Constituents

Based on review of the Appendix III statistical analysis presented in **Appendix 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**.

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

Statistical analysis of Appendix IV data identified the following SSL over GWPS at the listed wells during the first 2023 semi-annual monitoring event:

- BY-AP-MW-1: Arsenic.
- BY-AP-MW-5: Arsenic.
- BY-AP-MW-7: Arsenic.
- 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-14: Arsenic.
- BY-AP-MW-15: Arsenic, Cobalt.
- BY-AP-MW-16: Arsenic.

**Table 6, First Semi-Annual Monitoring Event Analytical Results Summary**, provides a summary of all detected constituents for the first 2023 semi-annual sampling event.

### 5.3.2.2 Delineation Wells

Analytical data derived from delineation wells are not statistically analyzed. A review of analytical data derived from delineation wells identified the following GWPS exceedances during the first 2023 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 Combined Radium 226 + 228.
- BY-AP-MW-20H: Arsenic.
- BY-AP-MW-22H: Arsenic.
- BY-AP-MW-24H: Arsenic.

The analytical result for combined radium 226 + 228 in well BY-AP-MW-17V on May 25, 2022, provided a result of 5.37 pCi/L. This result exceeded the GWPS, and upon an initial review of historical data, was notably different than the historical concentration range (Non-Detect – 2.94 pCi/L). Monitoring well BY-AP-MW-17V has exhibited increasing concentrations of combined radium 226 + 228 between May 2022 and April 2023. However, analytical result for combined radium 226 + 228 ranged from non-detect in two pore-water samples to 0.474 pCi/L in one pore water sample and has not been detected above GWPS in any other Site monitoring wells. A geogenic study for combined radium 226 + 228 in site monitoring well BY-AP-MW-17V will be conducted and included with the first 2024 Semi-Annual Groundwater Monitoring and Corrective Action report.

## **6.0 GROUNDWATER ASSESSMENT**

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 had routinely been provided to ADEM in March and September. Alabama Power Company (APC) requested approval to combine information typically provided in the Semi-Annual Progress Reports with Semi-Annual Groundwater Monitoring and Corrective Action Reports on March 15, 2021. ADEM approved this approach and revised timeline for submittals on March 16, 2021. APC now provides ADEM with a discussion of delineation results and corrective action 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 to the Watercourse Aquifer within the Unit 2 and 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 ADEM on May 13, 2019. Submitted an Assessment of Corrective Measures for the Ash Pond to ADEM 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 2, 2019.
- Submitted Groundwater Investigation Report on December 15, 2019, to ADEM summarizing Phase I groundwater investigation findings and included a work plan for a Phase II investigation.

- Provided ADEM with a response on December 30, 2019, for comments received from ADEM 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, BY-AP-MW-23V, and BY-AP-MW-25V) 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 nine ash samples and sampling of ash pore-water at three 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 nine 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 on December 2, 2019, 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) one time during the first 2021 semi-annual groundwater sampling event but has remained below GWPS (0.04 mg/L) since. Additionally, a lithium concentration of 0.0484 mg/l was detected at vertical delineation well BY-AP-MW-13V slightly above the GWPS for the first time during the second 2021 semi-annual groundwater sampling event. Lithium concentration in delineation well BY-AP-MW-13V was below GWPS during the 2022 semi-annual sampling events and the first 2023 semi-annual 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).

Analytical results from horizontal and vertical delineation wells identified concentrations above GWPS of EPA Appendix IV constituents: arsenic and cobalt during the first 2023 semi-annual sampling event.

**Figure 7A, Arsenic Isoconcentration Map (April 2023)**, illustrates the horizontal extent of arsenic impacts to groundwater from the first 2023 semi-annual sampling event. **Figure 8A, Arsenic Concentrations Along Geologic Cross Section A-A' (April 2023)**, and **Figure 8B, Arsenic Concentrations Along Geologic Cross Section B-B' (April 2023)**, illustrate the vertical extent of arsenic impacts to groundwater from the first 2023 semi-annual sampling event.

**Figure 7B, Cobalt Isoconcentration Map (April 2023)**, illustrates the horizontal extent of cobalt from the first 2023 semi-annual sampling event. **Figure 9, Cobalt Concentrations Along Geologic Cross Section A-A' (April 2023)**, illustrates the vertical extent of cobalt impacts to groundwater from the first 2023 semi-annual sampling event.

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 used 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 between well pairs, the extent of groundwater impacts is 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 6**. 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 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 and 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 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**

The most recent semi-annual sampling results from 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 one horizontal delineation well to the north (BY-AP-MW-17H), one horizontal delineation well (BY-AP-MW-20H) and two vertical delineation wells (BY-AP-MW-12V 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 south and east of the Ash Pond.

These two lobes are separated by a north to north-northeast trending wedge of un-impacted groundwater between the western boundary (between wells MW-1 and MW-5) and the northern boundary (between well pair MW-17H/17V and well MW-18H) as shown on **Figures 7A and 7B**. 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) and horizontal delineation well BY-AP-MW-23H, 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 **Table 6**). 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-13V and BY-AP-MW-14V to the southeast, or BY-AP-MW-16V, BY-AP-MW-1V, and BY-AP-MW-5V to the west.

Arsenic concentrations exceed the GWPS in horizontal delineation well BY-AP-MW-17H located at the property boundary (Mobile River) northwest of the Ash Pond. Arsenic concentrations exceed the GWPS in horizontal delineation wells BY-AP-MW-20H, BY-AP-MW-22H and BY-AP-MW-24H located southeast and southwest of the Ash Pond. To the southeast, south, and southwest of the Site, additional 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 one well, BY-AP-MW-12V, located along the southeast side of the Ash Pond.

**Figure 8A**, depicts the most recent 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-MW-15VM encountered greater than 20 feet of the Unit 4 clays and demonstrates a groundwater elevation difference of 1.40 feet from paired Watercourse Aquifer well BY-AP-MW-15 (**Figure 6**). 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 the most recent arsenic concentrations proximal to the eastern margin of the site following the same geometry as the Mobile River. **Figure 8B** shows that arsenic SSLs in groundwater are generally contained within the Unit 3 sands with some possible 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, BY-AP-MW-20V, BY-AP-MW-13V, 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  $1.15 \times 10^{-7}$  cm/sec to  $3.76 \times 10^{-8}$  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 that prohibits downward vertical migration.

### 6.3.2 Cobalt Delineation

The most recent semi-annual delineation wells sampling results show that cobalt concentrations above the GWPS (0.0157 mg/L) are limited to small, localized areas northwest (BY-AP-MW-17V), north (BY-AP-MW-23V), and southwest (BY-AP-MW-15V and BY-AP-MW-16V) of the Ash Pond. Compliance well 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-7/7V, BY-AP-MW-8/8V, 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, BY-AP-MW-12/12V, and BY-AP-MW-20H/20V 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 and extend to the base of Unit 3 sands at vertical delineation wells BY-AP-MW-17V and BY-AP-MW-23V to the north of the ash pond and BY-AP-MW-15V and BY-AP-MW-16V along the southwest side of the Ash Pond.

No other vertical wells at the Site returned cobalt concentrations above the GWPS. 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  $1.15 \times 10^{-7}$  cm/sec to  $3.76 \times 10^{-8}$  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 9**, 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 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  $5.91 \times 10^{-7}$  cm/sec to  $2.16 \times 10^{-8}$  cm/sec ( $1.7 \times 10^{-3}$  ft/d to  $6.1 \times 10^{-5}$  ft/d), demonstrated that Unit 4 clays do display sufficiently low permeability to be considered confining.

#### **6.5 GROUNDWATER REMEDY AND CORRECTIVE ACTION**

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

| Submittal  | Submittal Date | Purpose  |
|--|----------------|--|
| Assessment of Corrective Measures                | 06/2019        | Initial evaluation of the feasibility, performance, and implementation of known and emerging groundwater remediation technologies against site conditions and factors. |
| Groundwater Remedy Selection Report              | 10/2021        | Formal selection and detailed description of groundwater remedies selected for implementation at the site.   |
| Corrective Action Groundwater Monitoring Program | 01/2022        | Plan document to describe process and program for implementation and monitoring of groundwater remedies selected at the site.  |

### 6.5.1 Groundwater Remedy Selection

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

- Source control to include dewatering, consolidation, and capping of the Site.
- Geochemical manipulation by injection in areas of relatively high concentrations of COI to remove them from groundwater and immobilize them in situ.
- Monitored natural attenuation (MNA) over the entire Site.

Closure of the CCR Unit, including dewatering, consolidation, and capping, will greatly reduce source contributions to groundwater. 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 no byproducts that would require further treatment or disposal. MNA was selected because substantial evidence indicates that it is currently occurring at the Site.

### 6.5.2 Corrective Action – Groundwater Monitoring Program

The Corrective Action Groundwater Monitoring Program describes early plans for implementation and monitoring of groundwater remedies described above. The Corrective Action Groundwater Monitoring Program will be performed at the Site in two stages.

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

**Stage 1**

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

| Selected Remedy               | Implementation Task(s)  |
|-------------------------------|---|
| Monitored Natural Attenuation | 1. Implementation of expanded MNA sampling parameters.<br>2. Further assessment of MNA monitoring network.  |
| Geochemical Injection         | 1. Complete laboratory treatability studies to evaluate reagent composition, dosing, effectiveness, and sequencing for in situ groundwater treatment of constituents of interest (COI) by injection. Results from the treatability studies would be incorporated into an Underground Injection Control (UIC) permit application for the Site. |



|  |   |
|--|---|
|  | <ol style="list-style-type: none"> <li>2. Implementation of geochemical injection pilot tests using data collected from the laboratory treatability studies and issuance of an UIC permit.</li> </ol>   |
| <p>Source Control/Closure Activities</p> | <ol style="list-style-type: none"> <li>1. Evaluation of geochemical changes in groundwater with respect to transient closure activities, such as excavation and de-watering.</li> <li>2. Implementation of field data collection instruments and telemetry within key monitoring wells to further understand the nature of geochemical changes over time and with respect to closure activities and MNA/geochemical modelling.</li> </ol> |

**Implementation of Monitored Natural Attenuation**

MNA sampling parameters were added to the sampling plans and analyzed in the laboratory beginning with the May 2022 sampling event (**Table 6**). These parameters, in addition to field parameters, Appendix III, and Appendix IV parameters, are used to study the processes that govern or facilitate MNA, as well as changes in geochemical conditions. Parameters will be included in the site geochemical model.

**Geochemical Injection Pilot Testing Program**

Laboratory treatability studies using Site aquifer media and impacted groundwater to evaluate reagent composition, dosing, effectiveness, and sequencing (if applicable) for in situ groundwater treatment of COIs by injection is currently being conducted. Treatability tests include the following tasks and procedures prior to field implementation of an injection treatment pilot study:

- Selection and formulation of reagent solutions based on previous similar studies.

- Batch testing using multiple treatment solutions to determine the most effective formulations to carry forward to column testing.
- Column testing to better simulate field conditions, determine effectiveness, and evaluate potential release of COIs due to treatment (unintended consequences).
- Post-column testing, using selective sequential extraction, on treated soils to determine the long-term stability of the accumulated COIs.
- Results from the treatability studies would be incorporated into an Underground Injection Control permit application to be submitted to ADEM for approval prior to field implementation of an injection treatment pilot study.

The tentative schedule for this initial foundation phase is:

- Aquifer solids (soils) and groundwater sample collection from the selected pilot test areas: first and second quarters of 2022 (complete).
- Laboratory batch and column testing, and selective sequential extraction of treated soil: fourth quarter 2022 to third quarter 2023 (in progress).
- Pre-Design Investigation field work in pilot test study injection area locations.
- Underground Injection Permit application: third quarter 2023.
- Geochemical Injection Pilot Program: TBD, pending requisite documents and approvals supporting the injection program.

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

Aqua TROLL instrumentation was installed during the first quarter of 2022 in previous dewatering pilot testing observation wells at these locations along the northeast and northwest sides of the ash pond in the areas where closure construction is occurring:

- PRW-E1
- APT-OB-ED1S

- APT-OB-ED2D
- APT-OB-ED5S
- APT-OB-WD1S
- APT-OB-WD1D
- APT-OB-WD3S
- APT-OB-WD3D

### 6.5.3 Groundwater Quality Changes and Trends

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

- Compliance monitoring well BY-AP-MW-8 exhibited an arsenic concentration (0.00353 mg/L) below GWPS during the first 2023 semi-annual sampling event. The first time was in the second 2022 sampling event and appears to be attributable to targeted closure construction dewatering efforts.
- Arsenic concentrations in horizontal delineation well BY-AP-MW-23H have been below GWPS for the last four semi-annual sampling events and have continued to decrease since the September 2020 sampling event.
- Arsenic concentrations have decreased in horizontal delineation well BY-AP-MW-18H to below GWPS during the second 2022 semi-annual sampling event (0.00934 mg/L) and the first 2023 sampling event (0.000869 mg/L).
- Vertical delineation well BY-AP-MW-13V exhibited an arsenic concentration below GWPS (0.00887 mg/L) during the second 2022 semi-annual sampling event and the first 2023 sampling event (0.00843 mg/L).
- Arsenic was not detected above GWPS in any vertical delineation wells located north, northeast, northwest, or west of the ash pond and are limited to two vertical delineation wells, BY-AP-MW-12V to the southeast and BY-AP-MW-15V to the southwest of the ash pond.
- Compliance monitoring well BY-AP-MW-7 exhibited cobalt concentrations below GWPS during the second 2022 semi-annual sampling event (0.00239 mg/L) and the first 2023 semi-annual sampling event (0.00492 mg/L).

- Cobalt concentrations in vertical delineation well BY-AP-MW-20V were below GWPS (0.000458 mg/L) during the first 2023 sampling event.
- Cobalt concentrations in compliance well BY-AP-MW-4 have remained below GWPS during the last four sampling events and have exhibited concentrations above GWPS in only 2 of 19 sampling events.
- Cobalt concentrations were detected above GWPS in only one compliance well (BY-AP-MW-15) and two vertical delineation wells (BY-AP-MW-15V and BY-AP-MW-16V) to the southwest, and two vertical delineation wells (BY-AP-MW-17V and BY-AP-MW-23V) to the north of the ash pond during the first 2023 semi-annual sampling event.
- Lithium concentrations were not detected in any monitoring wells above GWPS during the first 2023 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 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 ash pond closure activities, specifically 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 SUMMARY AND CONCLUSIONS

The first semi-annual monitoring event was conducted in April 2023. Statistical evaluations of the monitoring data identified SSL of Appendix IV constituents arsenic and cobalt above the GWPS. To address previously identified SSL, 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:

- Complete the Laboratory Treatability Studies for the geochemical manipulation by injection pilot study.
- Draft and submit a Class V UIC permit application for the geochemical manipulation by injection pilot study.
- Conduct a geogenic study for site monitoring well BY-AP-MW-17V that has exhibited elevated concentrations of combined radium 226 + 228.
- Conduct the second semi-annual monitoring event in the fall of 2023 and submit the annual groundwater monitoring and corrective action report summarizing the findings to ADEM by January 31, 2024.

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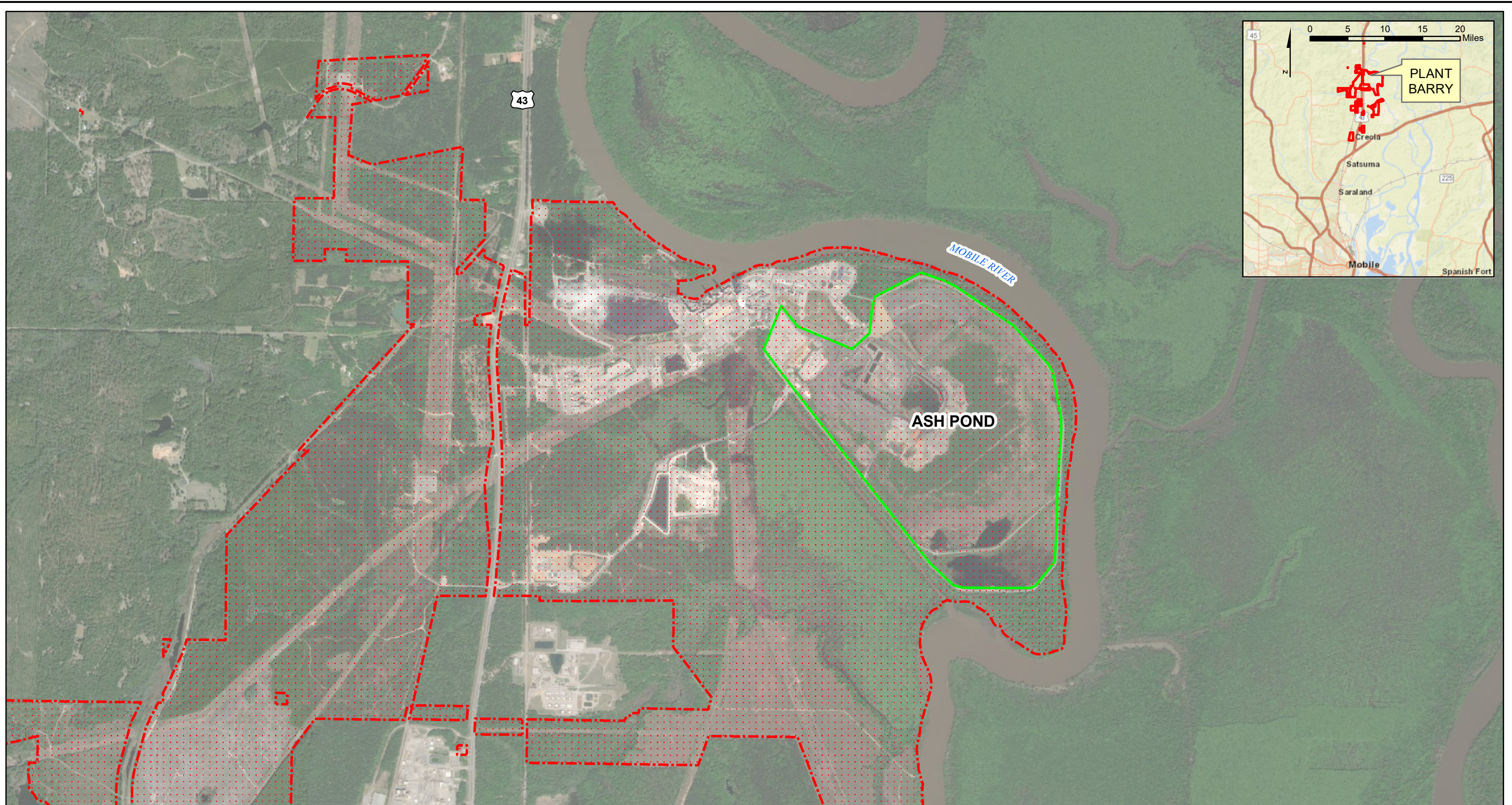
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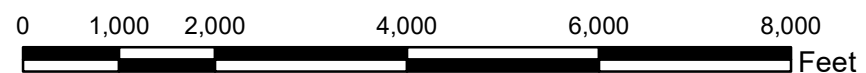
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# Figures





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



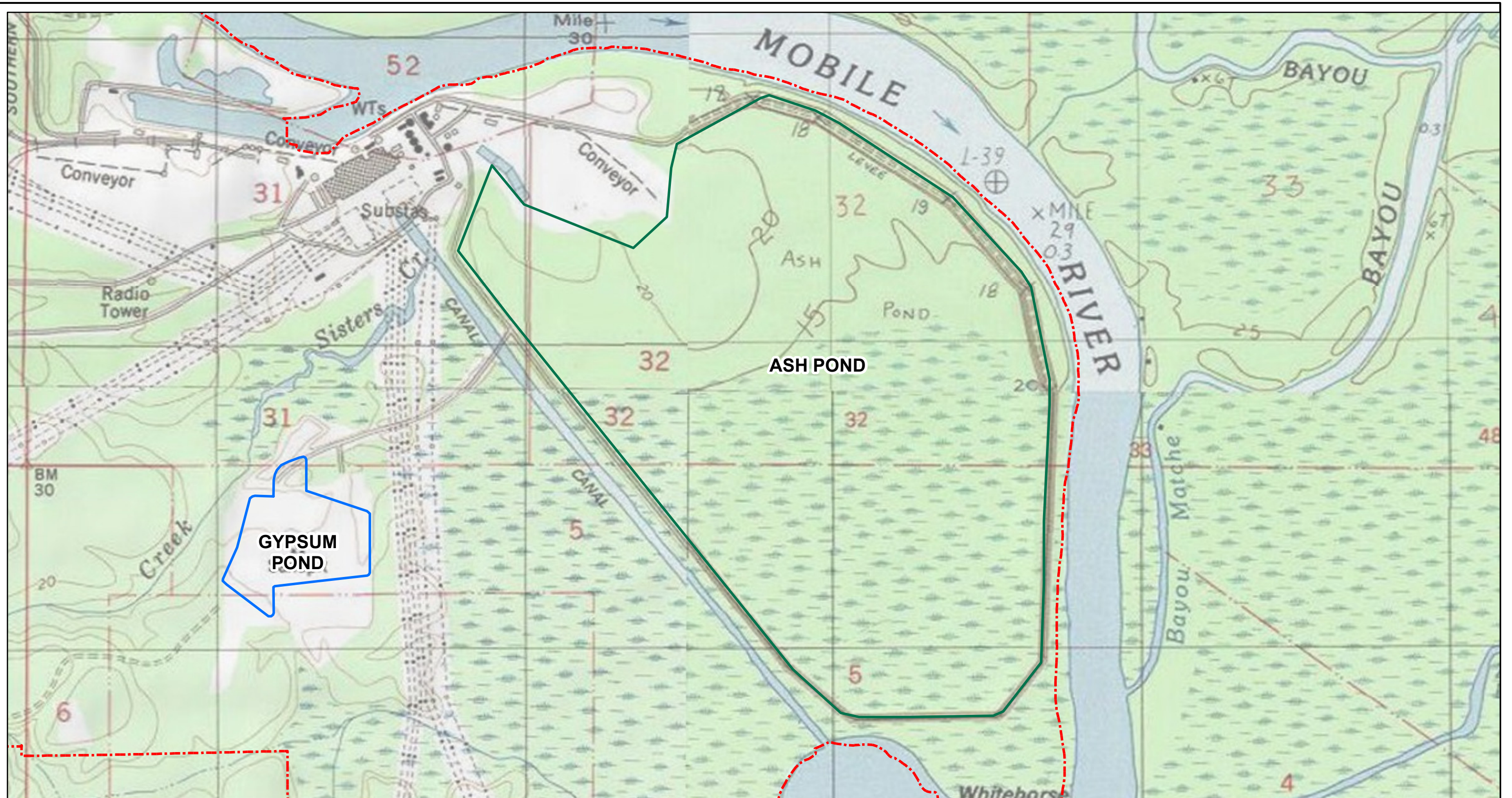
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DRAWING TITLE  
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 PLANT BARRY ASH POND**

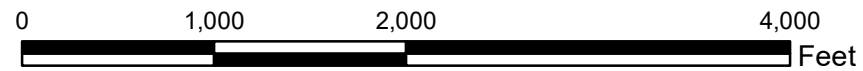
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**FIGURE 1**







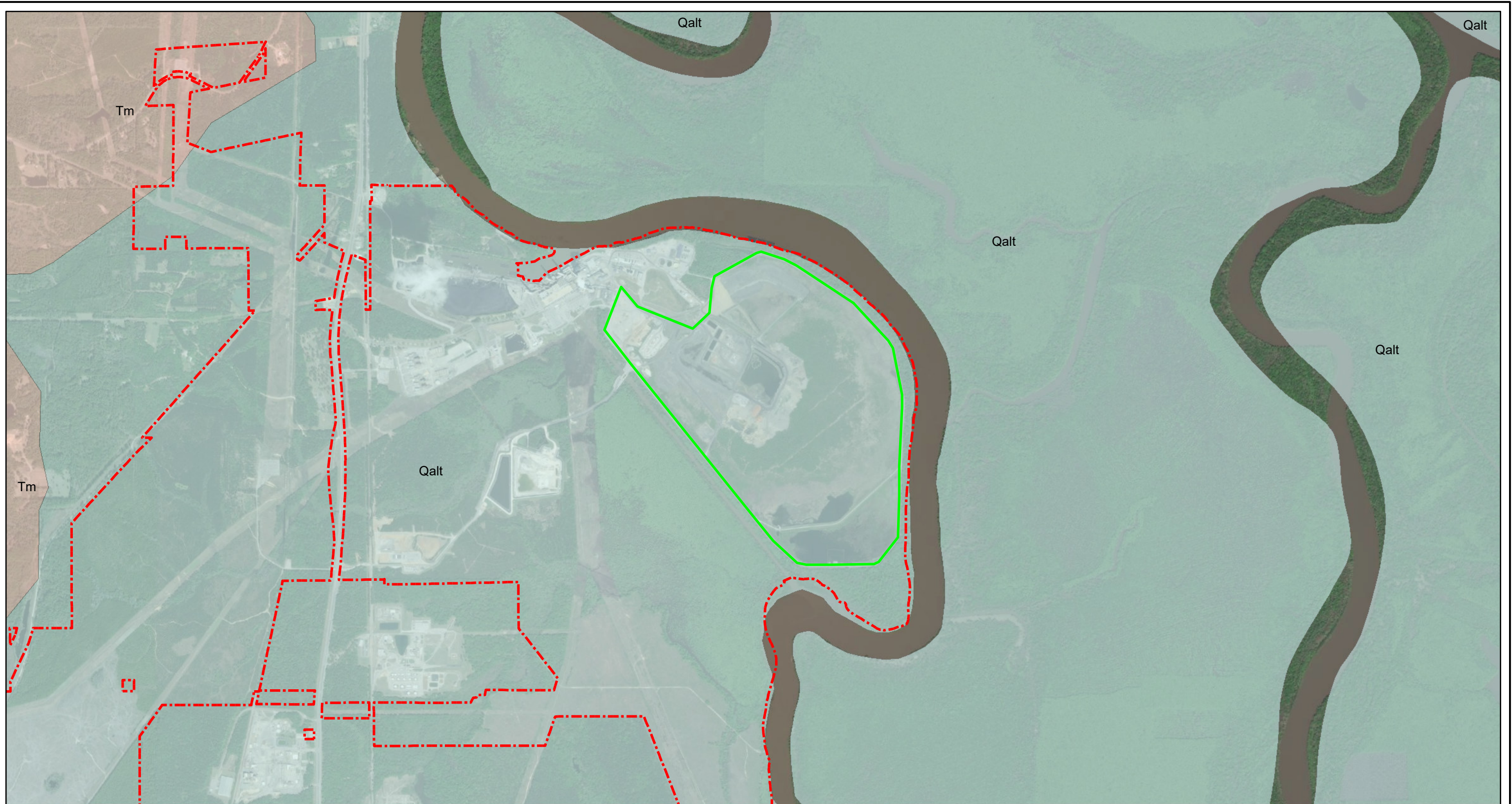
- Legend**
- Property Boundary (Approximate)
  - Ash Pond Boundary
  - Gypsum Pond Boundary



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| DATE       | 10/16/2020 |
| DRAWN BY   | KWR        |
| CHECKED BY | GBD        |

|  |                 |
|--|-----------------|
| DRAWING TITLE                                |                 |
| SITE TOPOGRAPHIC MAP<br>PLANT BARRY ASH POND |                 |
| FIGURE NO                                    | <b>FIGURE 2</b> |
| Southern Company                             |                 |



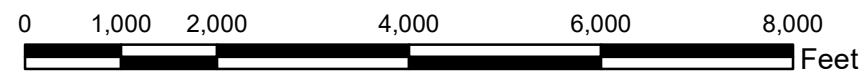


**Legend**

- 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

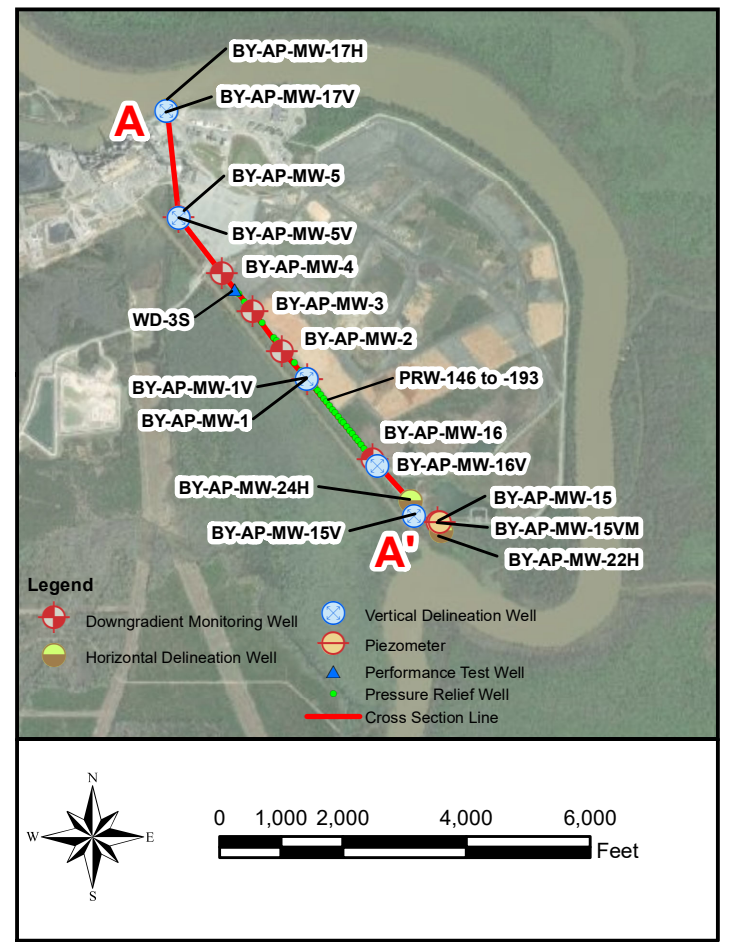
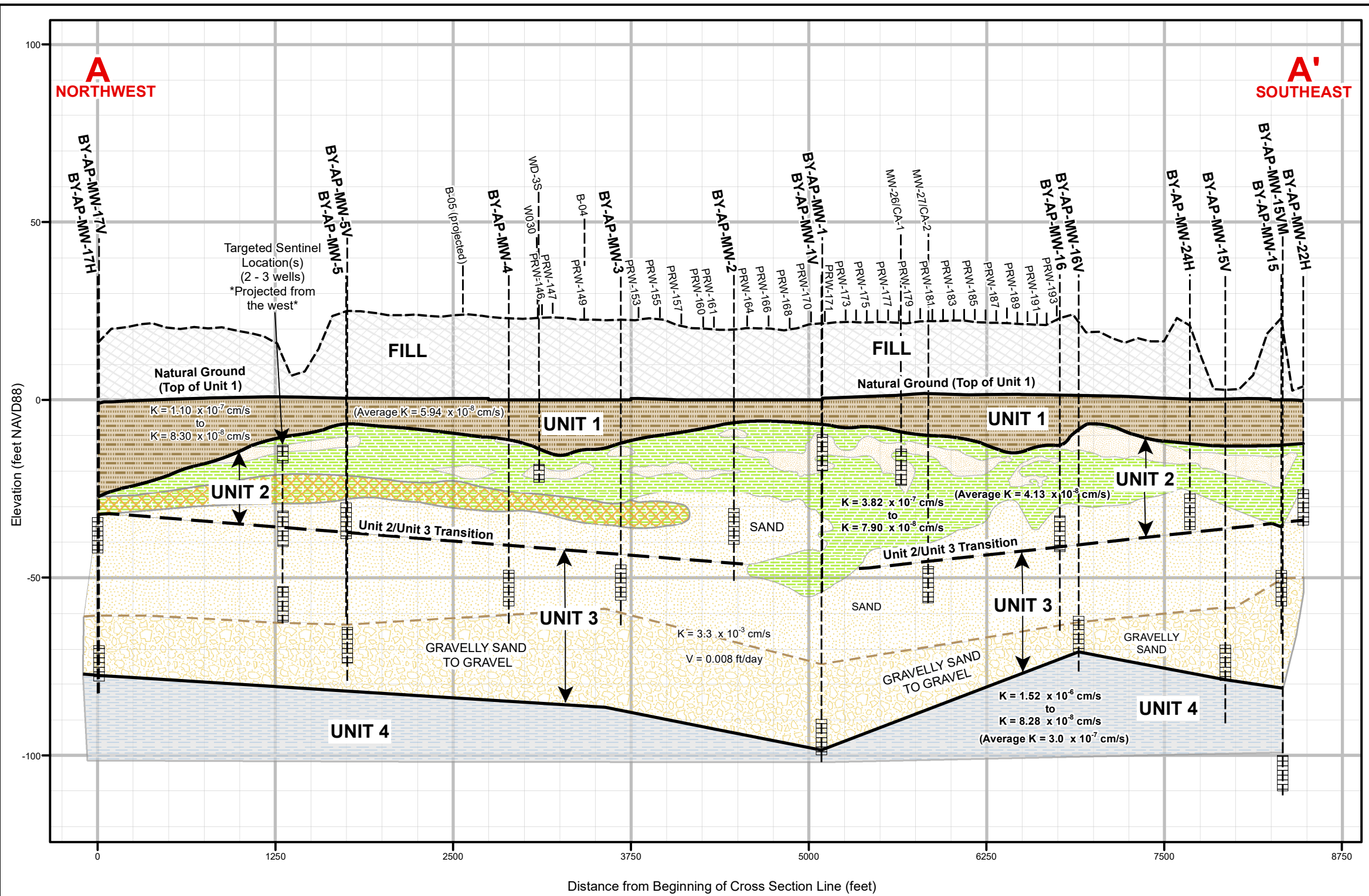
**SITE GEOLOGIC MAP  
PLANT BARRY ASH POND**

FIGURE NO

**FIGURE 3**





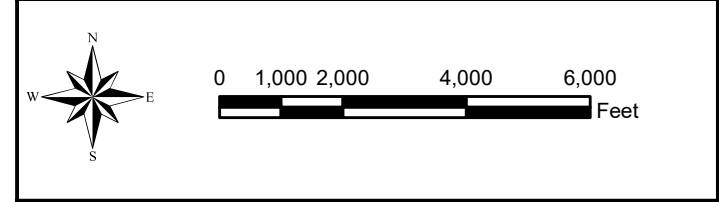
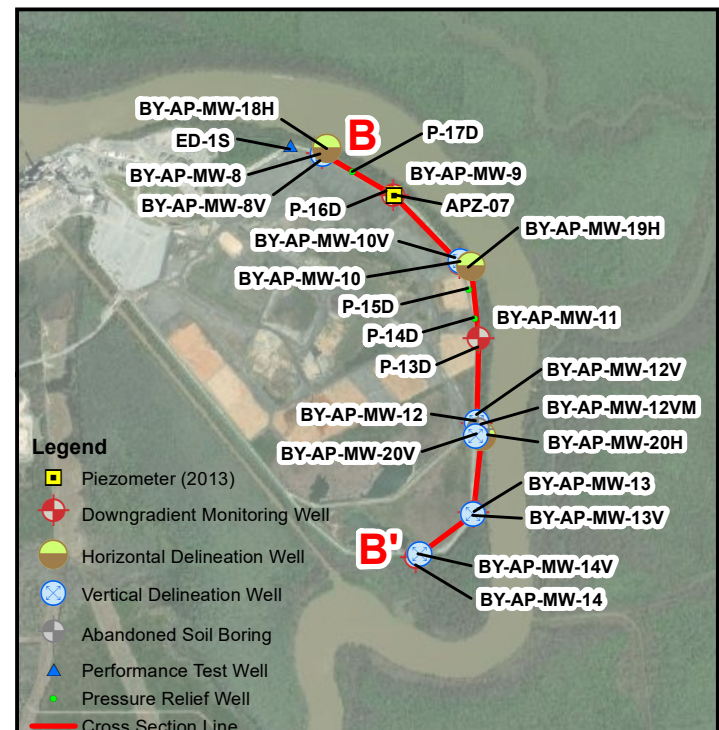
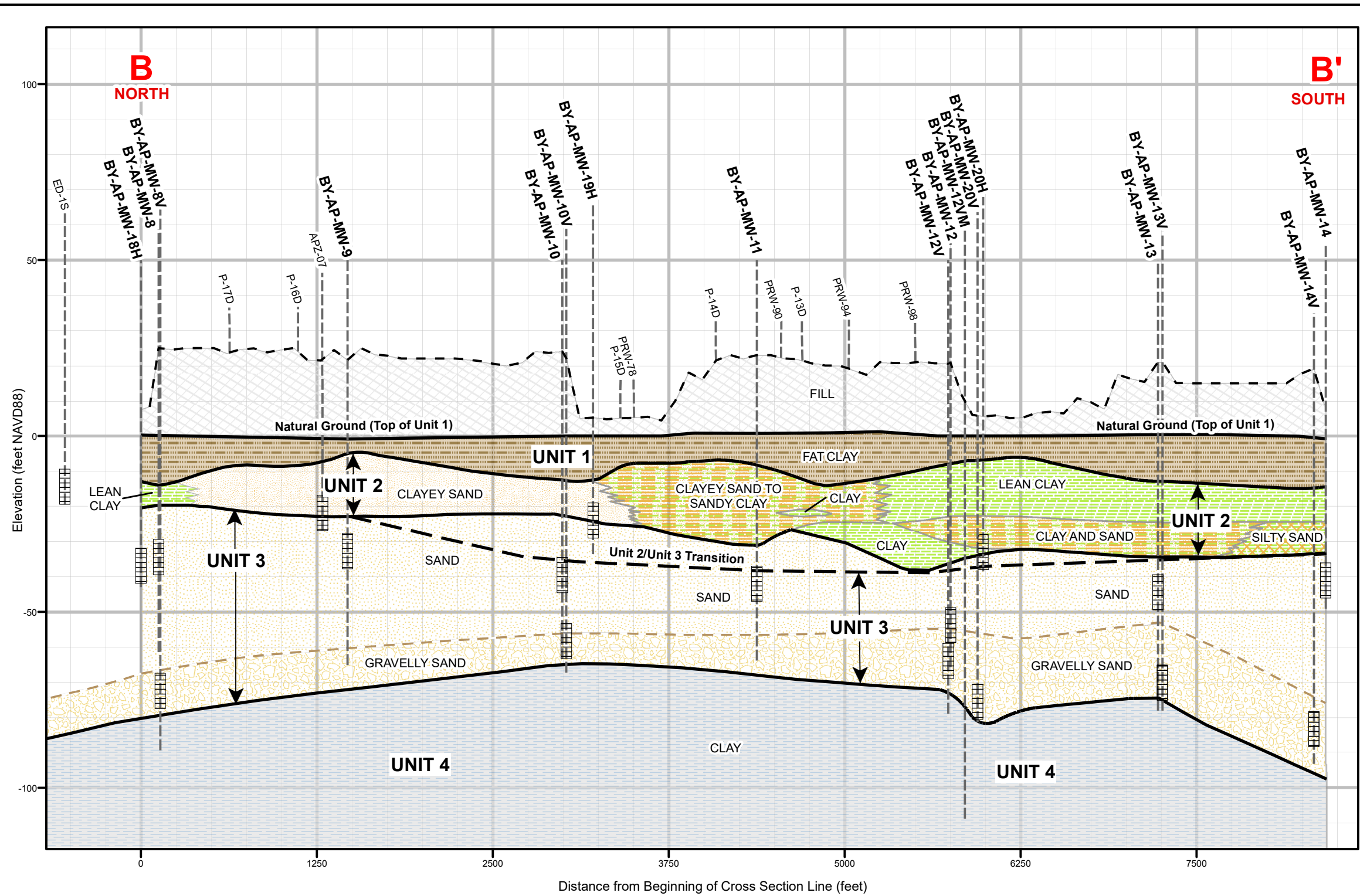


- Notes:
1. Source of ground surface elevation data: Lidar
  2. NAVD88 indicates North American Vertical Datum of 1988.
  3. K indicates hydraulic conductivity.
  4. Units 1, 2, and 4 hydraulic conductivity calculated from Shelby tube permeameter testing on undisturbed soil samples.
  5. Unit 3 hydraulic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

| Legend                     |  | UNIT 1  | UNIT 3   |
|----------------------------|--|---|--|
| Ground Surface Elevation   | Fill   | Organic clay  | Sand Unit: Gradational sand where sands grade from silty or fine grained to medium sands or gravels. |
| Well Location              | Organic Clay                                     | UNIT 2 Mixed Unit: Interbedded clay, silt, and thin silty sands grading downward to silt and clay. Upper sand and clay unit is discontinuous but, when existing, occurs typically between -11 and -22 ft MSL. Laterally, Unit 2 grades eastward into coarser materials. Unit 2 is interpreted to terminate near the base of the modern river thalweg (-37 to -48 ft MSL) and can include silty sands near the base. | UNIT 4 Lower Clay: Silty Clay to Sandy Clay.   |
| Screen Interval            | Lean to Fat Clays, Sandy Silts, and Clayey Sands |   |  |
| Unit Boundary              | Silty Sand                                       |   |  |
| Transitional Unit Boundary | Silt, Clay, and Clayey Sand                      |   |  |
| Transition Within Unit     | Sand   |   |  |
|                            | Gravelly Sand to Gravel                          |   |  |
|                            | Silty Clay to Sandy Clay                         |   |  |

|            |          |  |
|------------|----------|--|
| SCALE      | As Shown | DRAWING TITLE<br><b>GEOLOGIC CROSS SECTION A - A'</b><br><b>PLANT BARRY ASH POND</b> |
| DATE       | 6/7/2023 |  |
| DRAWN BY   | KWR      |  |
| CHECKED BY | GFB      |  |
| FIGURE NO  |          | <b>FIGURE 4A</b>   |
|            |          | Southern Company   |





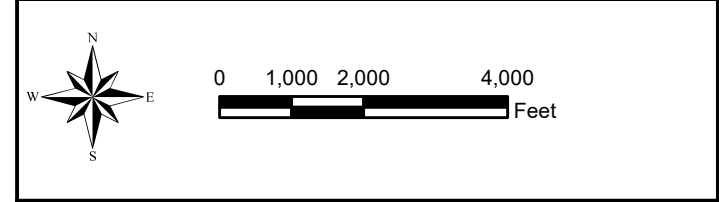
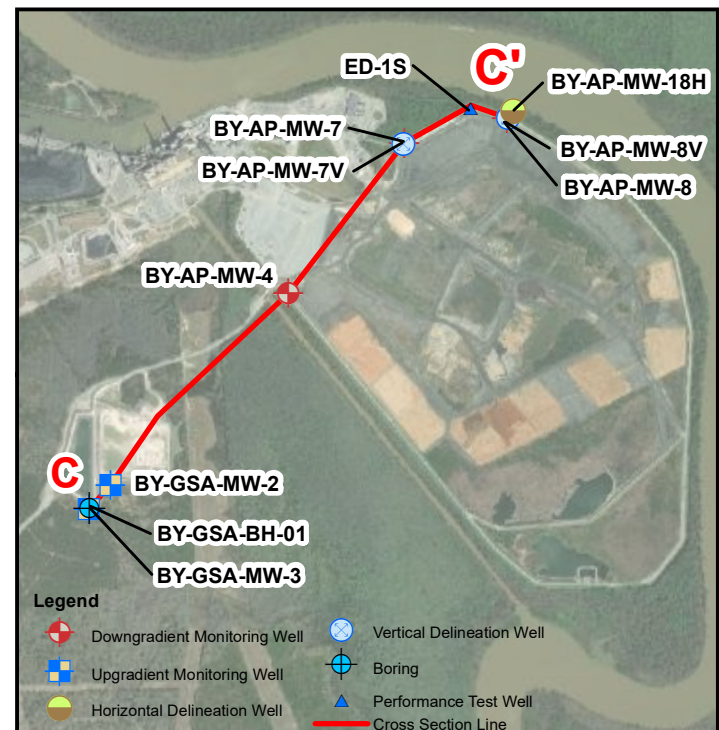
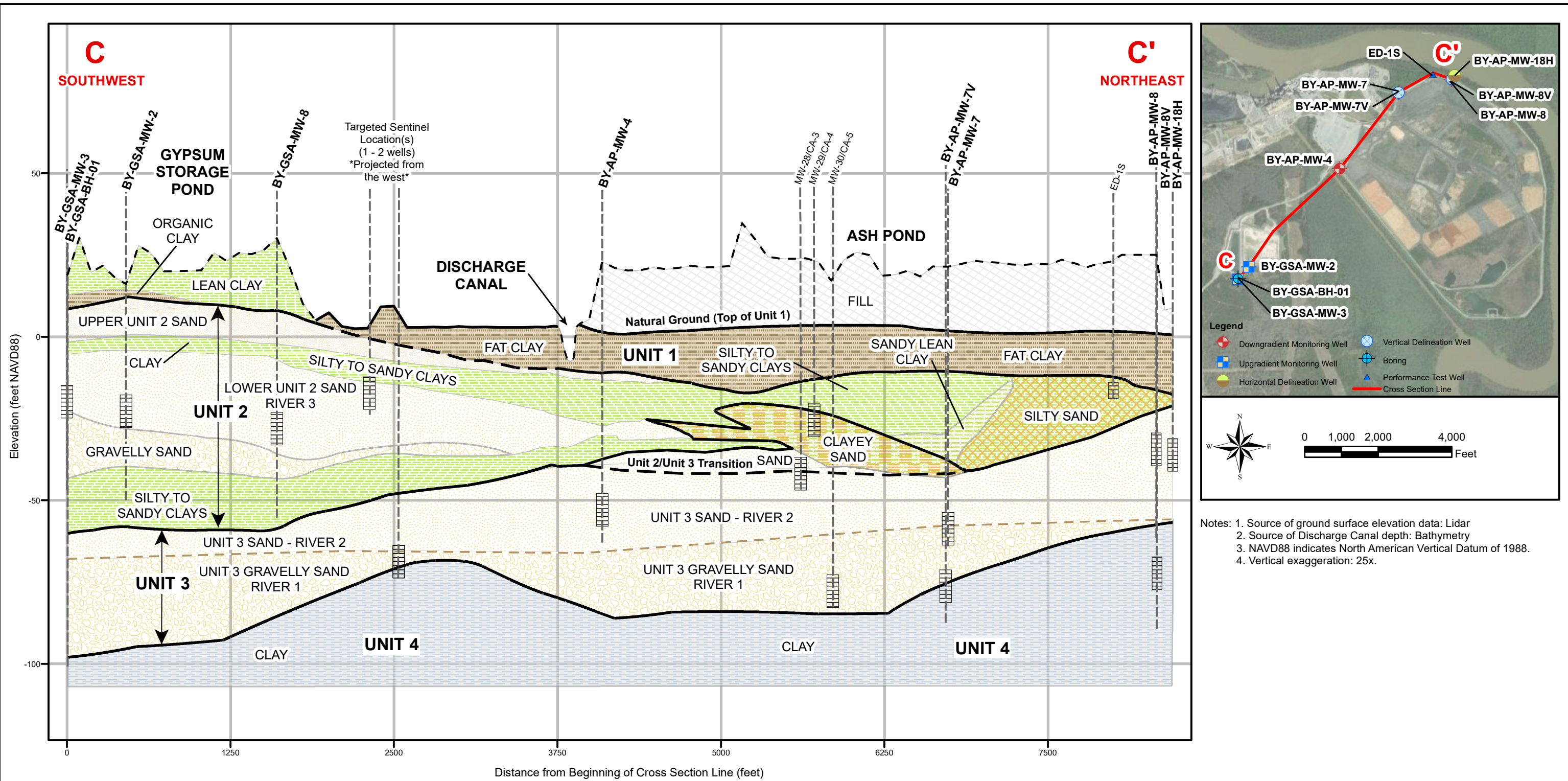
Notes: 1. Source of ground surface elevation data: Lidar  
 2. NAVD88 indicates North American Vertical Datum of 1988.  
 3. Vertical exaggeration: 25x.

| Legend |  | UNIT 1                     | UNIT 2   | UNIT 3   | UNIT 4  |
|--------|--|----------------------------|--|--|---|
|        | Ground Surface Elevation                 |                            |  |  |   |
|        | Well Location                            |                            |  |  |   |
|        | Screen Interval                          |                            |  |  |   |
|        | Unit Boundary                            |                            |  |  |   |
|        | Transitional Unit Boundary               |                            |  |  |   |
|        | Transition Within Unit                   |                            |  |  |   |
|        | Fill                                     |                            |  |  |   |
|        | Fat Clay                                 |                            |  |  |   |
|        | Lean Clay                                |                            |  |  |   |
|        | Clayey Sand to Sandy Clay, Clay and Sand |                            |  |  |   |
|        | Silty Sand                               |                            |  |  |   |
|        | Clayey Sand                              |                            |  |  |   |
|        | Sand                                     |                            |  |  |   |
|        | Gravelly Sand                            |                            |  |  |   |
|        | Clay                                     |                            |  |  |   |
|        |  | <b>UNIT 1</b> Organic clay | <b>UNIT 2</b> Mixed Unit: Interbedded clay, silt, and thin silty sands grading downward to silt and clay. Upper sand and clay unit is discontinuous but, when existing, occurs typically between -11 and -22 ft MSL. Laterally, Unit 2 grades eastward into coarser materials. Unit 2 is interpreted to terminate near the base of the modern river thalweg (-37 to -48 ft MSL) and can include silty sands near the base. | <b>UNIT 3</b> Sand Unit: Gradational sand where sands grade from silty or fine grained to medium sands or gravels. | <b>UNIT 4</b> Lower Clay: Silty Clay to Sandy Clay. |

|            |          |
|------------|----------|
| SCALE      | As Shown |
| DATE       | 6/7/2023 |
| DRAWN BY   | KWR      |
| CHECKED BY | GFB      |

|   |                  |
|---|------------------|
| DRAWING TITLE   |                  |
| GEOLOGIC CROSS SECTION B - B'<br>PLANT BARRY ASH POND |                  |
| FIGURE NO   | <b>FIGURE 4B</b> |
|   |                  |

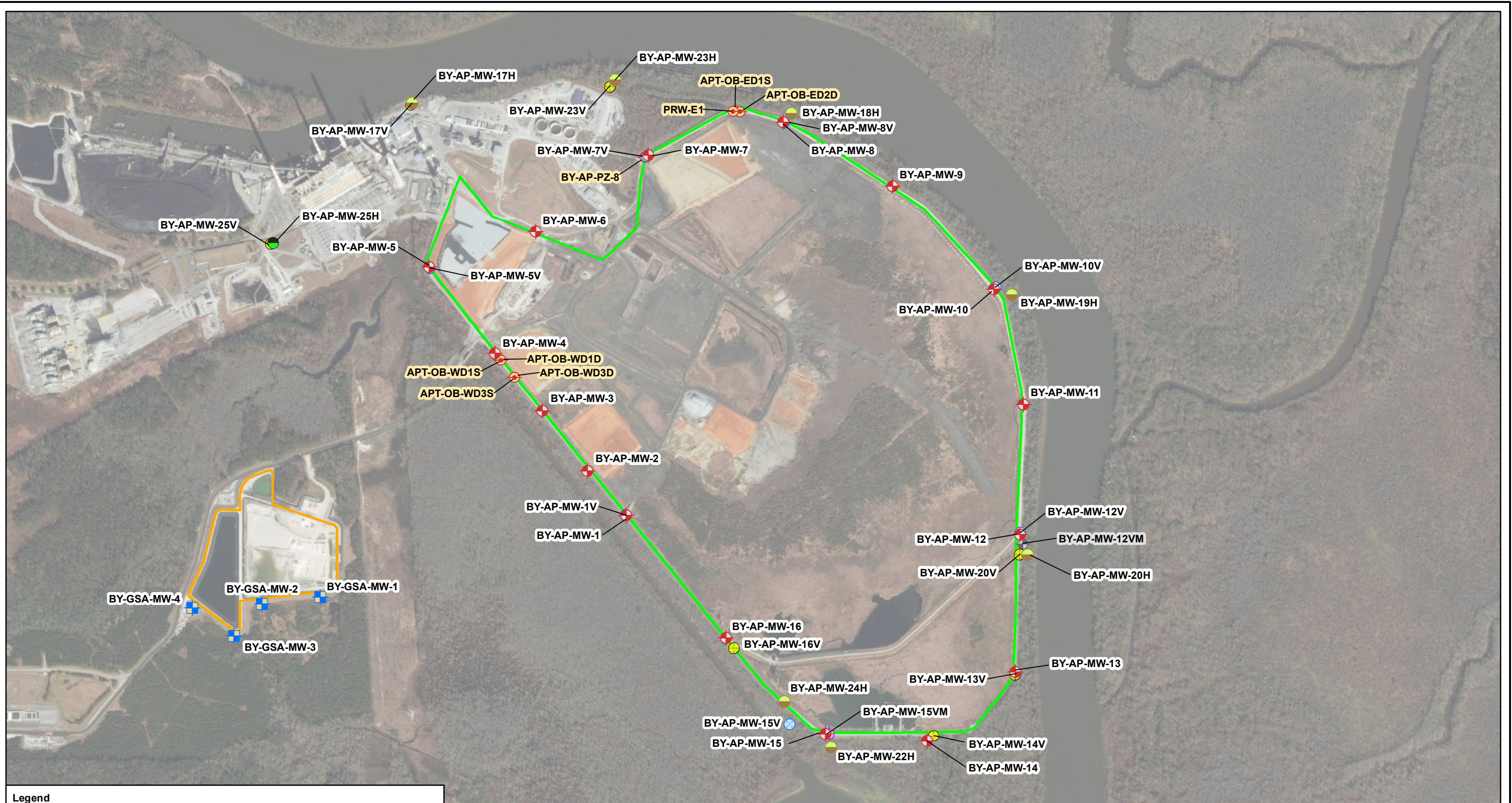




Notes: 1. Source of ground surface elevation data: Lidar  
 2. Source of Discharge Canal depth: Bathymetry  
 3. NAVD88 indicates North American Vertical Datum of 1988.  
 4. Vertical exaggeration: 25x.

|                   |     |   |   |          |   |  |          |
|-------------------|-----|---|---|----------|---|--|----------|
| <b>Legend</b><br> |     | <p>Mixed Unit: Interbedded clay, silt, and thin silty sands grading downward to silt and clay. Upper sand and clay unit is discontinuous but, when existing, occurs typically between -11 and -22 ft MSL. Laterally, Unit 2 grades eastward into coarser materials. Unit 2 is interpreted to terminate near the base of the modern river thalweg (-37 to -48 ft MSL) and can include silty sands near the base.</p> | <p>Sand Unit: Gradational sand where sands grade from silty or fine grained to medium sands or gravels.</p> <p>UNIT 3</p> <p>UNIT 4 Lower Clay: Silty Clay to Sandy Clay.</p> | SCALE    | DRAWING TITLE   |  |          |
|                   |     |   |   | As Shown | <b>GEOLOGIC CROSS SECTION C - C'</b><br><b>PLANT BARRY ASH POND</b> |  |          |
|                   |     |   |   | DATE     |   |  | 6/7/2023 |
|                   |     |   |   | DRAWN BY |   |  | KWR      |
| CHECKED BY        | GFB | FIGURE NO   | <b>FIGURE 4C</b>  |          |   |  |          |





| Legend |   |
|--------|---|
|        | Downgradient Monitoring Well  |
|        | Upgradient Monitoring Well  |
|        | Phase I Horizontal Delineation Monitoring Well                          |
|        | Phase I Vertical Delineation Monitoring Well                            |
|        | Phase II Horizontal Delineation Monitoring Well                         |
|        | Phase II Vertical Delineation Monitoring Well                           |
|        | Phase II Piezometer (Miocene Series)                                    |
|        | Abandoned Soil Boring   |
|        | Groundwater Field Parameters Instrumentation Observation Well Locations |
|        | Ash Pond Boundary   |
|        | Gypsum Pond Boundary  |

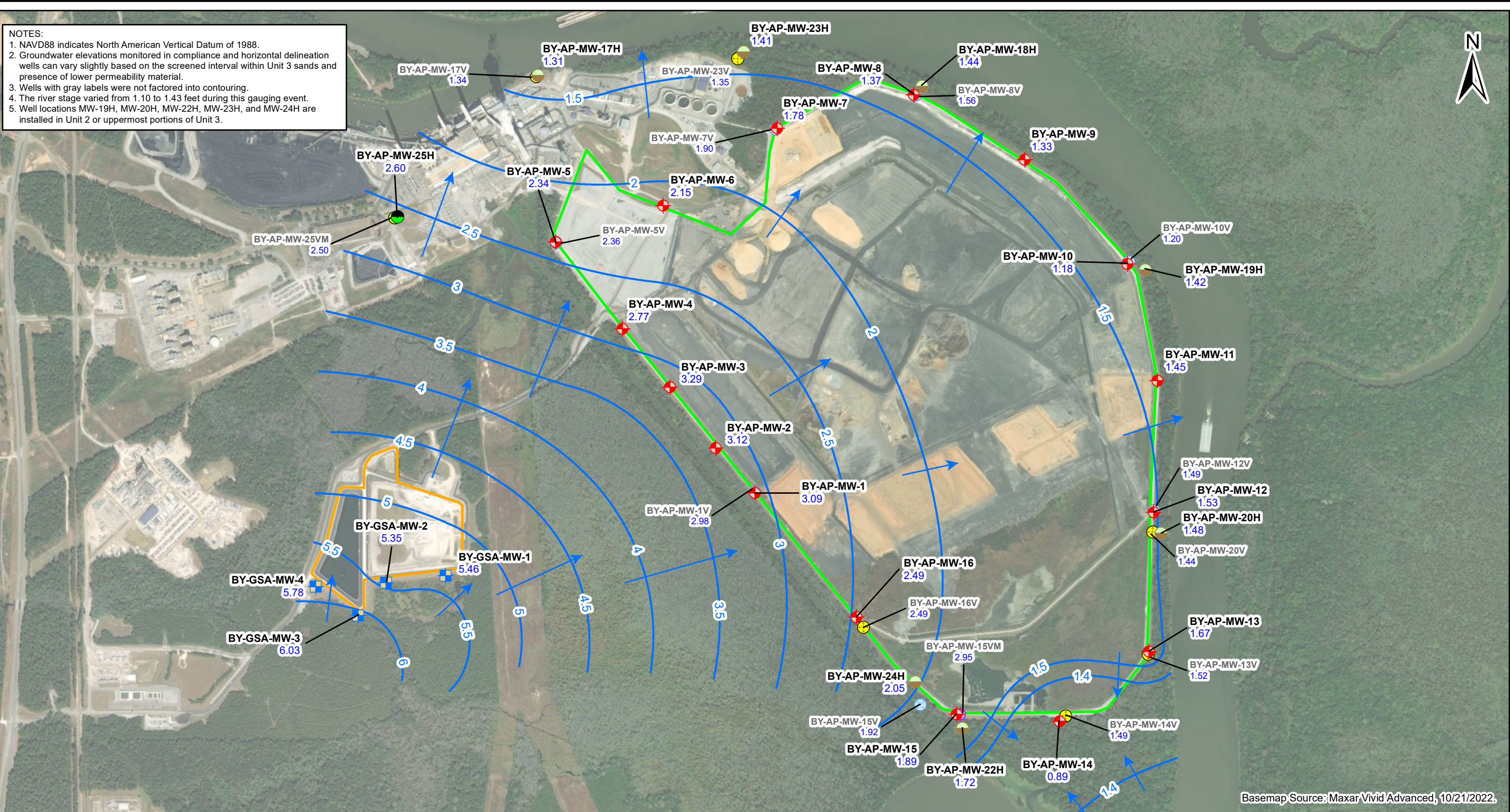


|            |           |
|------------|-----------|
| SCALE      | 1:12000   |
| DATE       | 7/26/2022 |
| DRAWN BY   | KAR       |
| CHECKED BY | GFB       |

|  |                 |
|--|-----------------|
| DRAWING TITLE  |                 |
| MONITORING WELL LOCATION MAP<br>PLANT BARRY ASH POND |                 |
| FIGURE NO  | <b>FIGURE 5</b> |
|  |                 |



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. Wells with gray labels were not factored into contouring.  
 4. The river stage varied from 1.10 to 1.43 feet during this gauging event.  
 5. Well locations MW-19H, MW-20H, MW-22H, MW-23H, and MW-24H are installed in Unit 2 or uppermost portions of Unit 3.



Basemap Source: Maxar Vivid Advanced, 10/21/2022.

**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 Piezometer (Miocene Series)
- Potentiometric Surface Contour (ft NAVD88)
- Approximate Groundwater Flow Direction
- Ash Pond Boundary
- Gypsum Pond Boundary

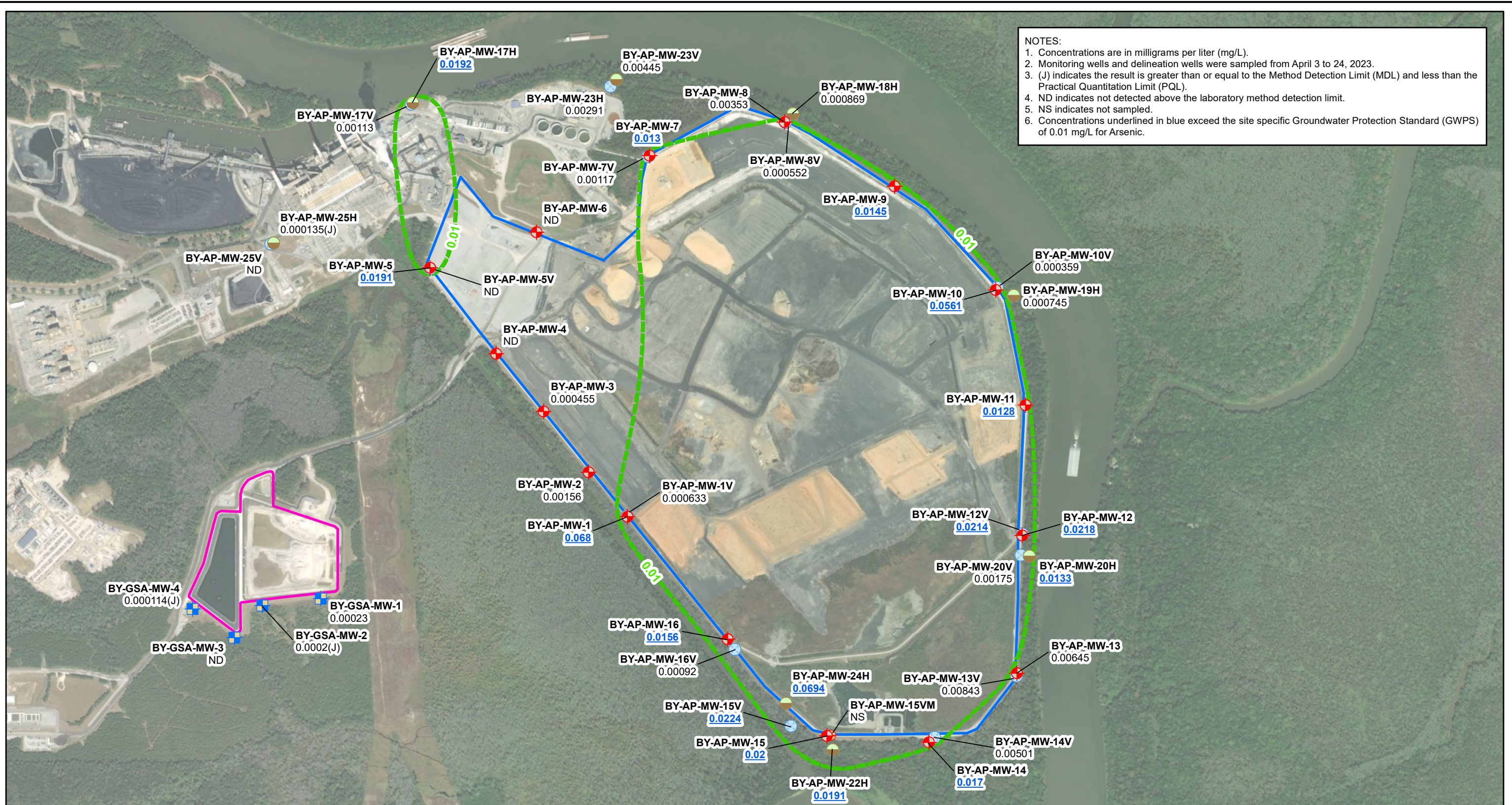
BY-AP-MW-1 Well ID  
 3.09 Groundwater Elevation (ft NAVD88)



|            |           |
|------------|-----------|
| SCALE      | 1:12000   |
| DATE       | 7/19/2023 |
| DRAWN BY   | KWR       |
| CHECKED BY | GFB       |

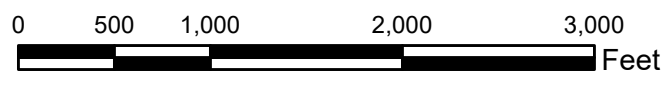
|   |                 |
|---|-----------------|
| DRAWING TITLE   |                 |
| POTENTIOMETRIC SURFACE CONTOUR MAP<br>JUNE 11, 2023<br>PLANT BARRY ASH POND |                 |
| FIGURE NO   | <b>FIGURE 6</b> |
| Southern Company  |                 |





NOTES:  
 1. Concentrations are in milligrams per liter (mg/L).  
 2. Monitoring wells and delineation wells were sampled from April 3 to 24, 2023.  
 3. (J) indicates the result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL).  
 4. ND indicates not detected above the laboratory method detection limit.  
 5. NS indicates not sampled.  
 6. Concentrations underlined in blue exceed the site specific Groundwater Protection Standard (GWPS) of 0.01 mg/L for Arsenic.

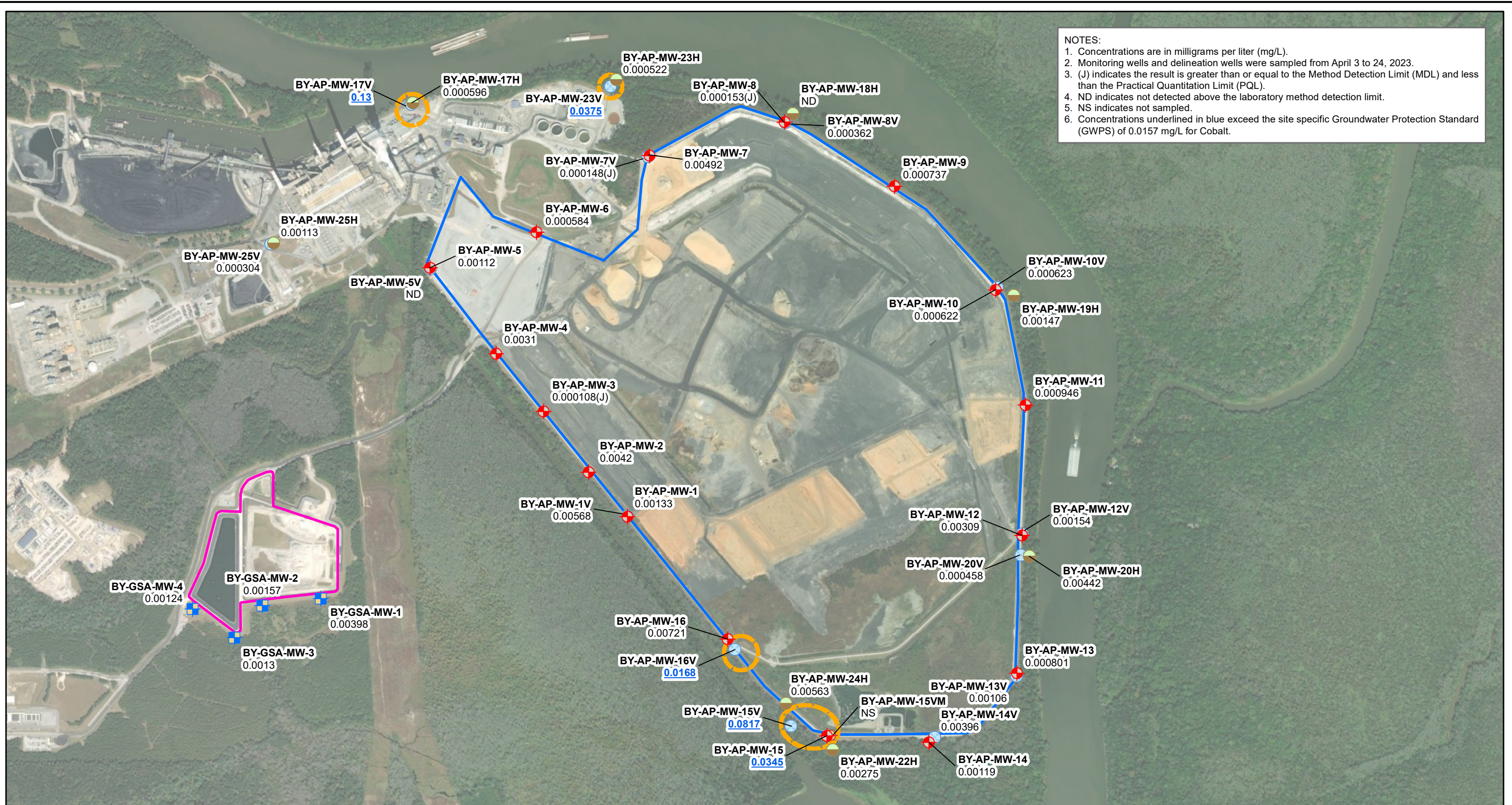
- Legend**
- Arsenic GWPS (mg/L)
  - Ash Pond Boundary
  - Gypsum Pond Boundary
  - ◆ Downgradient Monitoring Well
  - ◆ Upgradient Monitoring Well
  - Horizontal Delineation
  - Vertical Delineation Well
  - Piezometer



|            |           |
|------------|-----------|
| SCALE      | 1:12000   |
| DATE       | 5/31/2023 |
| DRAWN BY   | KWR       |
| CHECKED BY | GFB       |

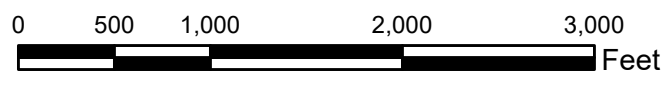
|  |                  |
|--|------------------|
| DRAWING TITLE  |                  |
| <b>ARSENIC ISOCONCENTRATION MAP<br/>PLANT BARRY ASH POND</b> |                  |
| FIGURE NO  | <b>FIGURE 7A</b> |
| Southern Company   |                  |





NOTES:  
 1. Concentrations are in milligrams per liter (mg/L).  
 2. Monitoring wells and delineation wells were sampled from April 3 to 24, 2023.  
 3. (J) indicates the result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL).  
 4. ND indicates not detected above the laboratory method detection limit.  
 5. NS indicates not sampled.  
 6. Concentrations underlined in blue exceed the site specific Groundwater Protection Standard (GWPS) of 0.0157 mg/L for Cobalt.

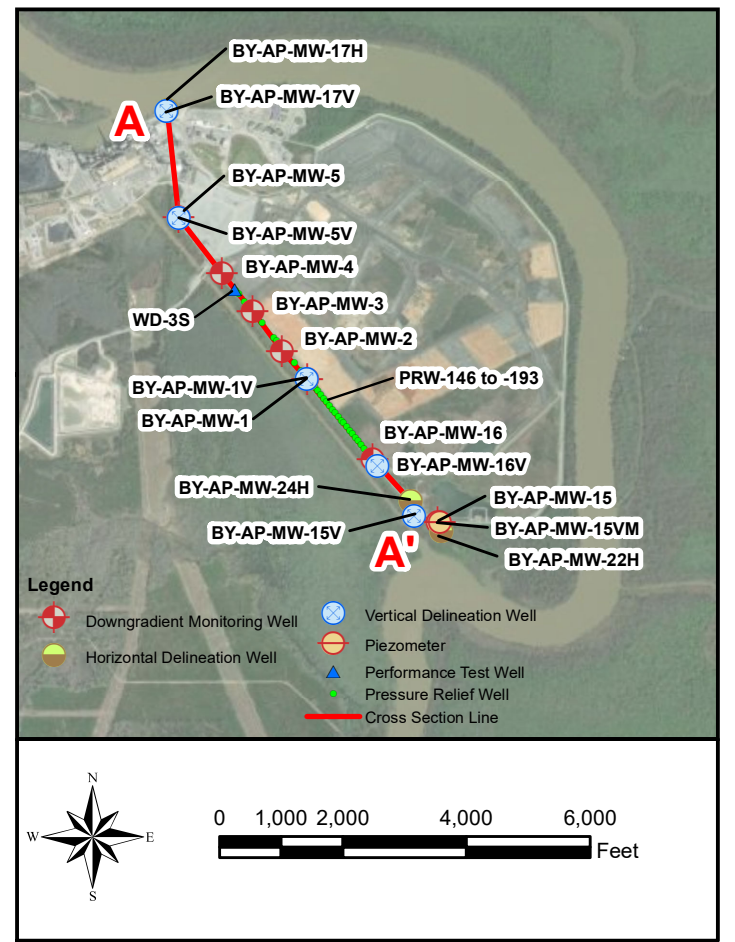
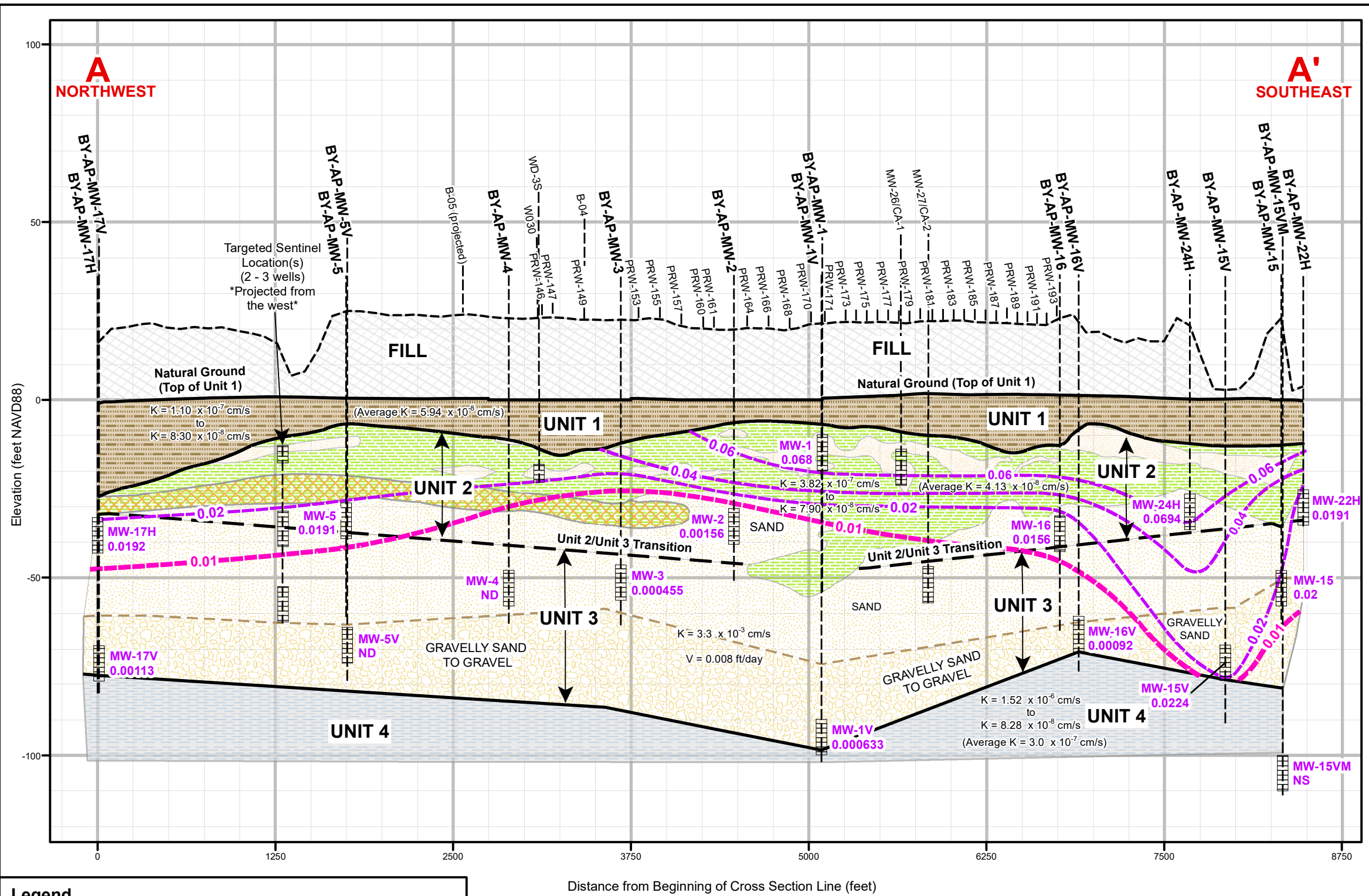
- Legend**
- ▬ Cobalt GWPS (mg/L)
  - ▬ Ash Pond Boundary
  - ▬ Gypsum Pond Boundary
  - Downgradient Monitoring Well
  - Upgradient Monitoring Well
  - Horizontal Delineation
  - ⊗ Vertical Delineation Well
  - Piezometer
  - ⊕ Abandoned Soil Boring



|            |          |
|------------|----------|
| SCALE      | 1:12000  |
| DATE       | 6/1/2023 |
| DRAWN BY   | KWR      |
| CHECKED BY | GFB      |

|   |                  |
|---|------------------|
| DRAWING TITLE   |                  |
| <b>COBALT ISOCONCENTRATION MAP<br/>PLANT BARRY ASH POND</b> |                  |
| FIGURE NO   | <b>FIGURE 7B</b> |
| Southern Company  |                  |





- Notes:
1. Source of ground surface elevation data: Lidar
  2. NAVD88 indicates North American Vertical Datum of 1988.
  3. Water samples were collected between April 3 and April 24, 2023.
  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. Vertical exaggeration: 25x.

**Legend**

- Ground Surface Elevation
- Well Location
- Screen Interval
- Average Arsenic Concentration (mg/L)
- Average Arsenic GWPS (mg/L)
- Unit Boundary
- Transitional Unit Boundary
- Transition Within Unit
- Fill
- Organic Clay
- Lean to Fat Clays, Sandy Silts, and Clayey Sands
- Silty Sand
- Silt, Clay, and Clayey Sand
- Sand
- Gravelly Sand to Gravel
- Silty Clay to Sandy Clay

**UNIT 1** Organic clay

**UNIT 2** Mixed Unit: Interbedded clay, silt, and thin silty sands grading downward to silt and clay. Upper sand and clay unit is discontinuous but, when existing, occurs typically between -11 and -22 ft MSL. Laterally, Unit 2 grades eastward into coarser materials. Unit 2 is interpreted to terminate near the base of the modern river thalweg (-37 to -48 ft MSL) and can include silty sands near the base.

**UNIT 3** Sand Unit: Gradational sand where sands grade from silty or fine grained to medium sands or gravels.

**UNIT 4** Lower Clay: Silty Clay to Sandy Clay.

0.01 Arsenic GWPS (mg/L)  
0.0192 Average Arsenic Concentration (mg/L)

|            |           |
|------------|-----------|
| SCALE      | As Shown  |
| DATE       | 7/20/2023 |
| DRAWN BY   | KWR       |
| CHECKED BY | GFB       |

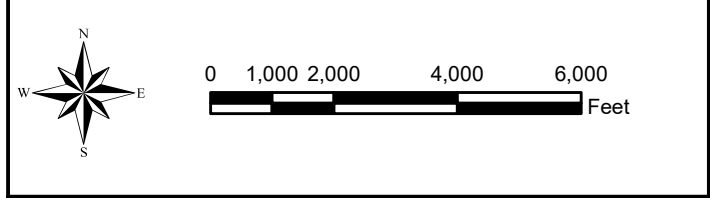
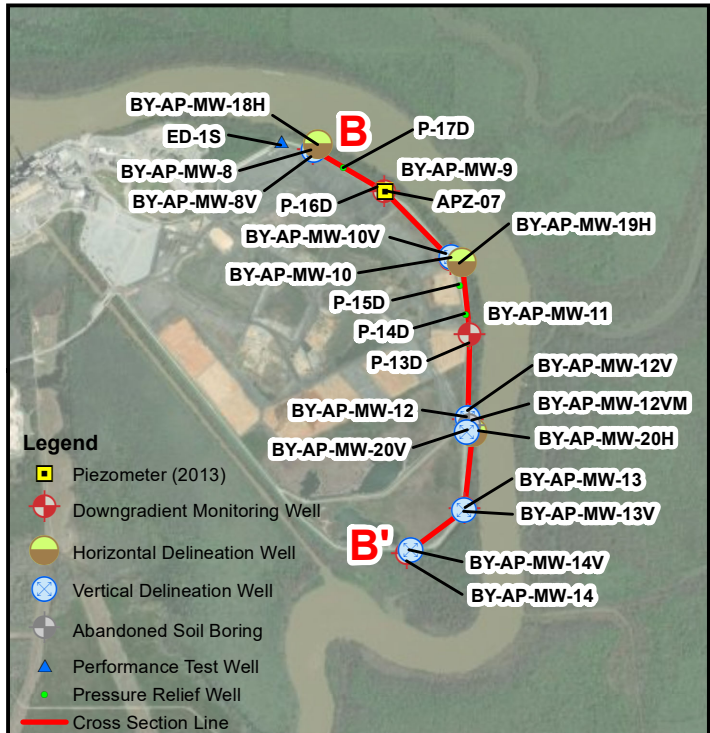
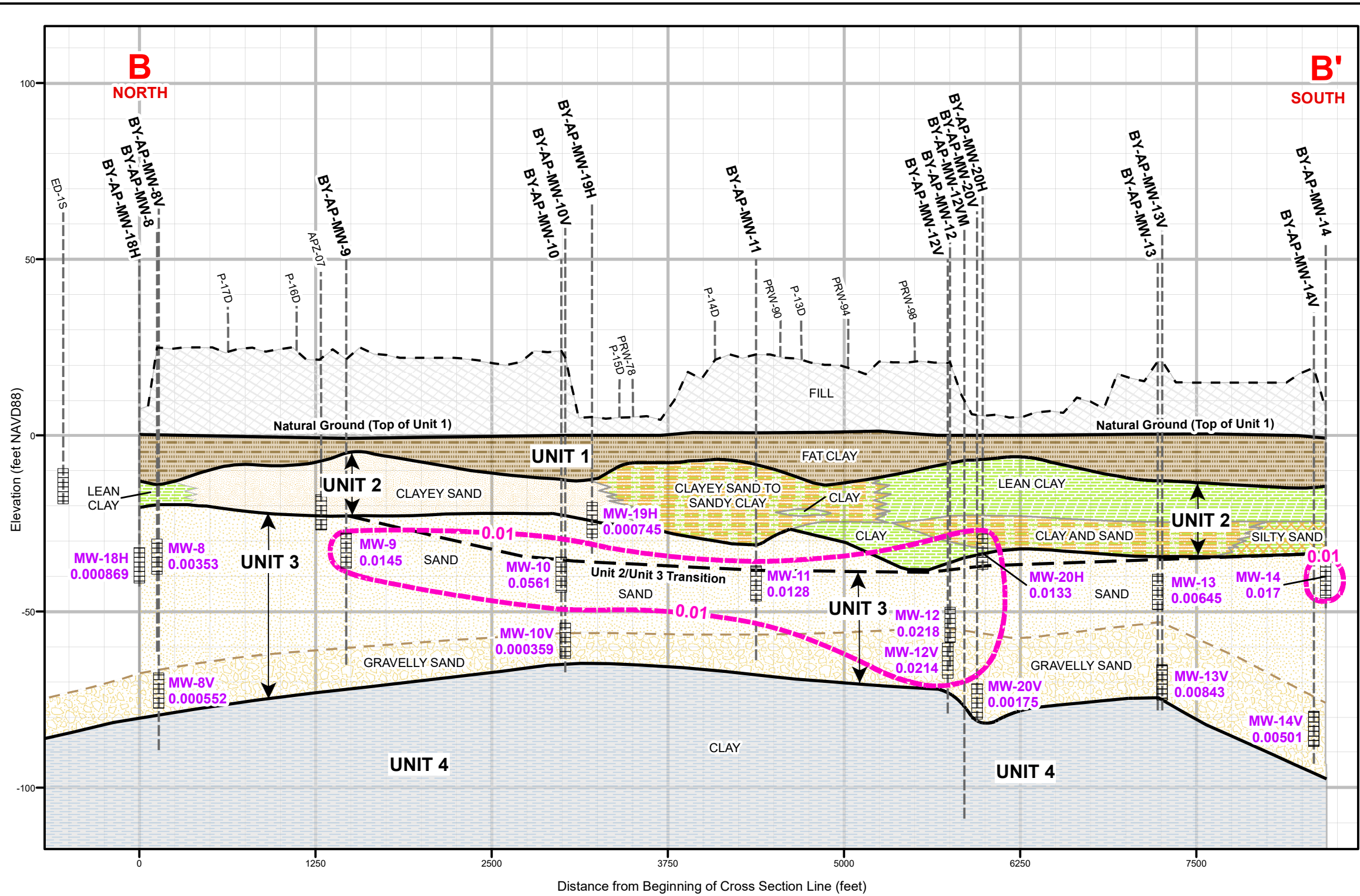
DRAWING TITLE

## ARSENIC CONCENTRATIONS ALONG GEOLOGIC CROSS SECTION A - A' PLANT BARRY ASH POND

FIGURE NO

### FIGURE 8A





Notes: 1. Source of ground surface elevation data: Lidar  
 2. NAVD88 indicates North American Vertical Datum of 1988.  
 3. Water samples were collected between April 3 and April 24, 2023.  
 4. Vertical exaggeration: 25x.

- Legend**
- Ground Surface Elevation
  - Well Location
  - Screen Interval
  - Arsenic GWPS (mg/L)
  - Unit Boundary
  - Transitional Unit Boundary
  - Transition Within Unit

- Fill
- Fat Clay
- Lean Clay
- Clayey Sand to Sandy Clay, Clay and Sand
- Silty Sand
- Clayey Sand
- Sand
- Gravelly Sand
- Clay

**UNIT 1** Organic clay

**UNIT 2** Mixed Unit: Interbedded clay, silt, and thin silty sands grading downward to silt and clay. Upper sand and clay unit is discontinuous but, when existing, occurs typically between -11 and -22 ft MSL. Laterally, Unit 2 grades eastward into coarser materials. Unit 2 is interpreted to terminate near the base of the modern river thalweg (-37 to -48 ft MSL) and can include silty sands near the base.

**UNIT 3** Sand Unit: Gradational sand where sands grade from silty or fine grained to medium sands or gravels.

**UNIT 4** Lower Clay: Silty Clay to Sandy Clay.

0.01 Arsenic GWPS (mg/L)  
 0.0145 Average Arsenic Concentration (mg/L)

SCALE  
As Shown

DATE  
7/20/2023

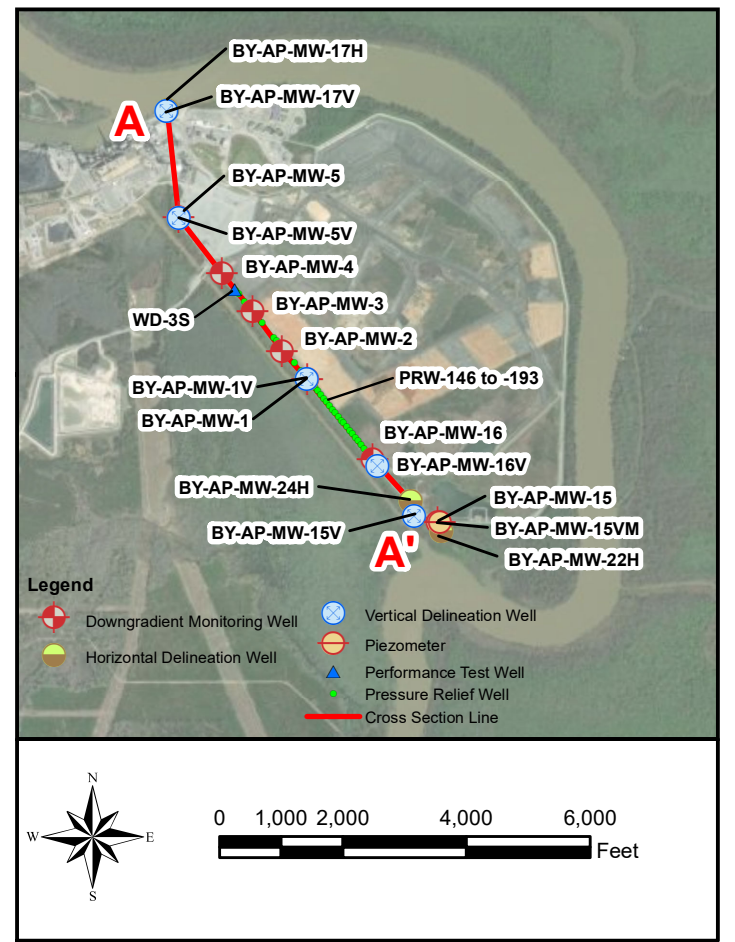
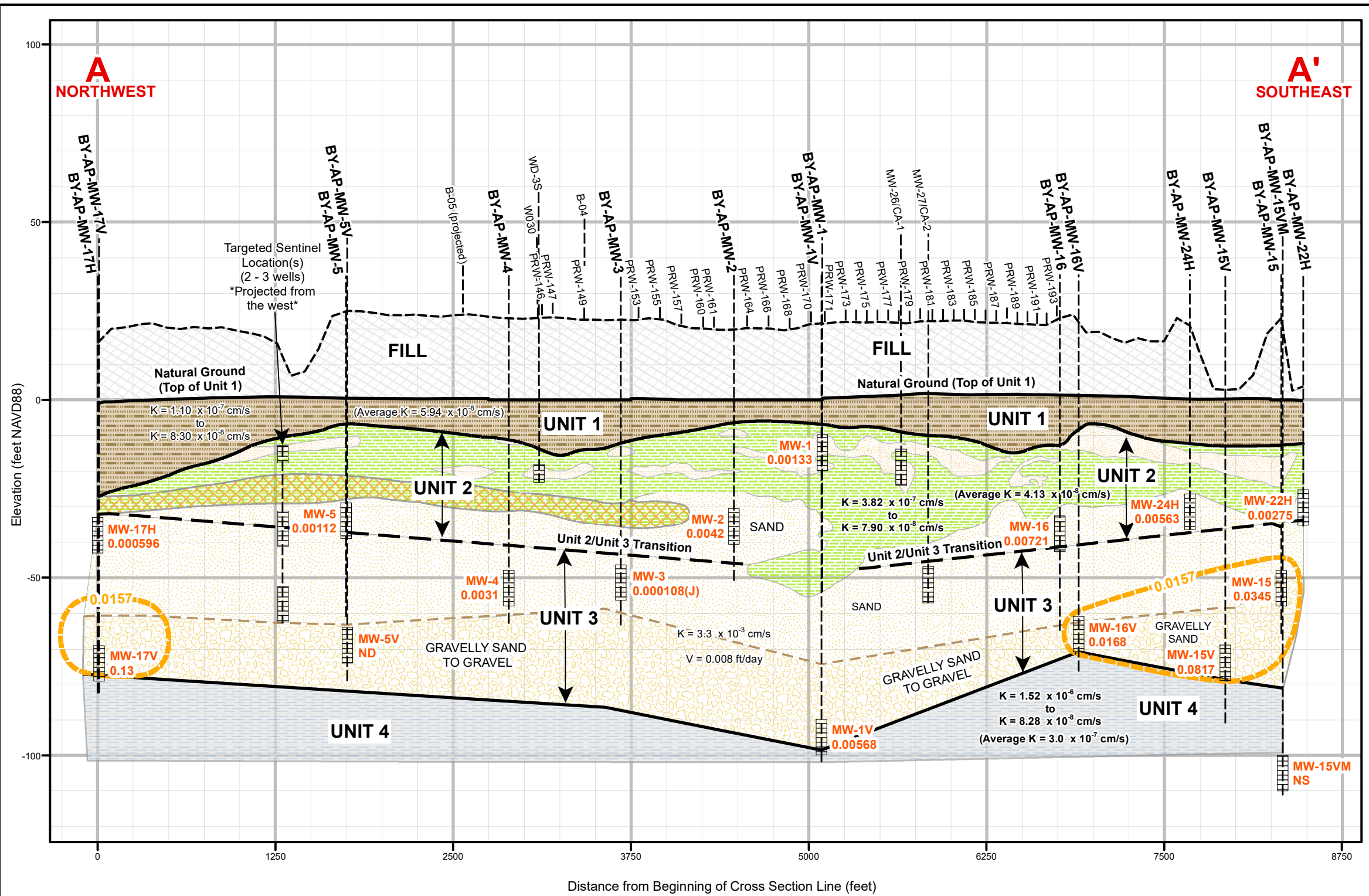
DRAWN BY  
KWR

CHECKED BY  
GFB

DRAWING TITLE  
**ARSENIC CONCENTRATIONS ALONG GEOLOGIC CROSS SECTION B - B' PLANT BARRY ASH POND**

FIGURE NO  
**FIGURE 8B**





- Notes:**
1. Source of ground surface elevation data: Lidar
  2. NAVD88 indicates North American Vertical Datum of 1988.
  3. Water samples were collected between April 3 and April 24, 2023.
  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. Vertical exaggeration: 25x.

|  |   |          |   |           |
|--|---|----------|---|-----------|
| <b>Legend</b><br><ul style="list-style-type: none"> <li>Ground Surface Elevation</li> <li>Well Location</li> <li>Screen Interval</li> <li>Average Cobalt GWPS (mg/L)</li> <li>Unit Boundary</li> <li>Transitional Unit Boundary</li> <li>Transition Within Unit</li> </ul> | <b>UNIT 1</b> Organic clay<br><br><b>UNIT 2</b> Mixed Unit: Interbedded clay, silt, and thin silty sands grading downward to silt and clay. Upper sand and clay unit is discontinuous but, when existing, occurs typically between -11 and -22 ft MSL. Laterally, Unit 2 grades eastward into coarser materials. Unit 2 is interpreted to terminate near the base of the modern river thalweg (-37 to -48 ft MSL) and can include silty sands near the base.<br><br><b>UNIT 3</b> Sand Unit: Gradational sand where sands grade from silty or fine grained to medium sands or gravels.<br><br><b>UNIT 4</b> Lower Clay: Silty Clay to Sandy Clay.<br><br><b>0.0157</b> Cobalt GWPS (mg/L) | SCALE    | DRAWING TITLE   |           |
|  |   | As Shown | <b>COBALT CONCENTRATIONS ALONG GEOLOGIC CROSS SECTION A - A' PLANT BARRY ASH POND</b> |           |
|  |   | DATE     |   |           |
|  |   | DRAWN BY | KWR   | FIGURE NO |
| CHECKED BY   | GFB   |          |   |           |

# 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 |
|---------------------|--------------------|---------------------------------|----------|-----------|------------------------------------|-----------------------------------|----------------------|-----------------------------------|--------------------------------------|--------------------|----------------------|
| <b>WELL NETWORK</b> |                    |                                 |          |           |                                    |                                   |                      |                                   |                                      |                    |                      |
| BY-UP-MW-1          | Upgradient         | Unit 2: Mixed Sand and Clay     | 30.99445 | -88.01134 | 17.49                              | 20.66                             | 44.4                 | -13.23                            | -23.23                               | 10                 | 10/7/2015            |
| BY-UP-MW-2          | Upgradient         | Unit 2: Mixed Sand and Clay     | 30.99425 | -88.01331 | 17.00                              | 19.95                             | 47.6                 | -17.23                            | -27.23                               | 10                 | 10/7/2015            |
| BY-UP-MW-3          | Upgradient         | Unit 2: Mixed Sand and Clay     | 30.99331 | -88.01425 | 20.15                              | 23.24                             | 48.5                 | -14.89                            | -24.89                               | 10                 | 10/7/2015            |
| BY-UP-MW-4          | Upgradient         | Unit 2: Mixed Sand and Clay     | 30.99414 | -88.01566 | 26.16                              | 29.12                             | 64.1                 | -24.54                            | -34.54                               | 10                 | 10/7/2015            |
| BY-AP-MW-1          | Downgradient       | Unit 2: Upper Sand              | 30.99688 | -88.00103 | 22.91                              | 25.80                             | 46.1                 | -9.90                             | -19.90                               | 10                 | 10/7/2015            |
| BY-AP-MW-2          | Downgradient       | Unit 2 - Unit 3 Transition Zone | 30.99816 | -88.00235 | 21.10                              | 23.89                             | 65.4                 | -31.11                            | -41.11                               | 10                 | 10/7/2015            |
| BY-AP-MW-3          | Downgradient       | Unit 2 - Unit 3 Transition Zone | 30.9999  | -88.00388 | 23.60                              | 26.61                             | 83.2                 | -46.18                            | -56.18                               | 10                 | 10/7/2015            |
| BY-AP-MW-4          | Downgradient       | Unit 2 - Unit 3 Transition Zone | 31.00157 | -88.00548 | 24.05                              | 26.97                             | 84.9                 | -47.54                            | -57.54                               | 10                 | 10/7/2015            |
| BY-AP-MW-5          | Downgradient       | Unit 2: Mixed Sand and Clay     | 31.00406 | -88.00771 | 25.97                              | 28.93                             | 69.0                 | -29.62                            | -39.62                               | 10                 | 10/7/2015            |
| BY-AP-MW-6          | Downgradient       | Unit 3: Sands                   | 31.00511 | -88.00414 | 23.78                              | 26.69                             | 88.5                 | -51.42                            | -61.42                               | 10                 | 10/7/2015            |
| BY-AP-MW-7          | Downgradient       | Unit 3: Sands                   | 31.00734 | -88.00034 | 25.78                              | 25.47                             | 89.5                 | -53.58                            | -63.58                               | 10                 | 10/7/2015            |
| BY-AP-MW-8          | Downgradient       | Unit 2: Mixed Sand and Clay     | 31.00832 | -87.9958  | 25.44                              | 25.11                             | 64.8                 | -29.29                            | -39.29                               | 10                 | 10/7/2015            |
| BY-AP-MW-9          | Downgradient       | Unit 2: Mixed Sand and Clay     | 31.00648 | -87.99209 | 21.90                              | 24.39                             | 62.7                 | -27.92                            | -37.92                               | 10                 | 10/7/2015            |
| BY-AP-MW-10         | Downgradient       | Unit 2 - Unit 3 Transition Zone | 31.00349 | -87.98867 | 24.21                              | 24.07                             | 68.7                 | -34.18                            | -44.18                               | 10                 | 10/7/2015            |
| BY-AP-MW-11         | Downgradient       | Unit 2 - Unit 3 Transition Zone | 31.00015 | -87.98765 | 23.13                              | 23.11                             | 71.1                 | -37.60                            | -47.60                               | 10                 | 10/7/2015            |
| BY-AP-MW-12         | Downgradient       | Unit 3: Sands                   | 30.99637 | -87.98774 | 21.24                              | 23.88                             | 82.9                 | -48.65                            | -58.65                               | 10                 | 10/7/2015            |
| BY-AP-MW-13         | Downgradient       | Unit 2 - Unit 3 Transition Zone | 30.99238 | -87.98789 | 21.29                              | 24.22                             | 73.5                 | -38.89                            | -48.89                               | 10                 | 10/7/2015            |
| BY-AP-MW-14         | Downgradient       | Unit 2 - Unit 3 Transition Zone | 30.99035 | -87.99085 | 8.89                               | 11.74                             | 58.0                 | -35.88                            | -45.88                               | 10                 | 10/1/2013            |
| BY-AP-MW-15         | Downgradient       | Unit 3: Sands                   | 30.99054 | -87.99428 | 21.23                              | 23.89                             | 82.7                 | -48.39                            | -58.39                               | 10                 | 10/7/2015            |
| BY-AP-MW-16         | Downgradient       | Unit 2 - Unit 3 Transition Zone | 30.99333 | -87.99764 | 22.05                              | 25.01                             | 67.7                 | -32.31                            | -42.31                               | 10                 | 10/7/2015            |

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

**Notes:**

(1) Coordinates have been transformed into WGS 84 from NAD 27/83



**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 |
|---------------------|----------------------|---|----------|-----------|------------------------------------|-----------------------------------|----------------------|-----------------------------------|--------------------------------------|--------------------|----------------------|
| <b>WELL NETWORK</b> |                      |   |          |           |                                    |                                   |                      |                                   |                                      |                    |                      |
| BY-AP-MW-1V         | Vertical Delineation | Unit 3: Lower Sands & Gravel (Watercourse Aq) | 30.99689 | -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) | 31.00831 | -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 | 21.28                              | 23.45                             | 94.9                 | -58.72                            | -68.72                               | 10                 | 12/17/2018           |
| BY-AP-MW-13V        | Vertical Delineation | Unit 3: Lower Sands & Gravel (Watercourse Aq) | 30.99229 | -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) | 30.99051 | -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) | 30.99081 | -87.9955  | 4.05                               | 7.03                              | 86.3                 | -68.85                            | -78.85                               | 10                 | 7/23/2019            |
| BY-AP-MW-16V        | Vertical Delineation | Unit 3: Lower Sands & Gravel (Watercourse Aq) | 30.99303 | -87.9974  | 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) | 31.0088  | -88.00838 | 17.41                              | 20.40                             | 100.2                | -69.25                            | -79.25                               | 10                 | 4/11/2020            |

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

**Notes:**

(1) Coordinates have been transformed into WGS 84 from NAD 27/83





**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 |
|--------------|------------------------|---|----------|-----------|------------------------------------|-----------------------------------|----------------------|-----------------------------------|--------------------------------------|--------------------|----------------------|
| BY-AP-MW-20V | Vertical Delineation   | Unit 3: Lower Sands & Gravel (Watercourse Aq) | 30.9958  | -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 | -88.00167 | 12.04                              | 15.33                             | 103.0                | -77.14                            | -87.14                               | 10                 | 3/25/2020            |
| BY-AP-MW-25V | 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 2 - Unit 3 Transition Zone               | 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 2 - Unit 3 Transition Zone               | 31.00857 | -87.99552 | 7.08                               | 10.30                             | 52.6                 | -31.92                            | -41.92                               | 10                 | 12/15/2018           |
| BY-AP-MW-19H | Horizontal Delineation | Unit 2: Mixed Sand and Clay                   | 31.00333 | -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                   | 30.99015 | -87.99409 | 4.73                               | 7.85                              | 43.1                 | -27.87                            | -37.87                               | 10                 | 7/24/2019            |
| BY-AP-MW-23H | Horizontal Delineation | Unit 2: Mixed Sand and Clay                   | 31.00953 | -88.00147 | 7.92                               | 10.63                             | 45.1                 | -24.08                            | -34.08                               | 10                 | 7/18/2019            |
| BY-AP-MW-24H | Horizontal Delineation | Unit 2: Mixed Sand and Clay                   | 30.99148 | -87.99567 | 23.51                              | 26.28                             | 63.2                 | -26.49                            | -36.49                               | 10                 | 12/19/2018           |
| BY-AP-MW-25H | Horizontal Delineation | Unit 2 - Unit 3 Transition Zone               | 31.00475 | -88.01299 | 20.89                              | 23.82                             | 80.4                 | -46.09                            | -56.09                               | 10                 | 4/13/2020            |

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

**Notes:**

(1) Coordinates have been transformed into WGS 84 from NAD 27/83



## Table 2. Parameters And Reporting Limits

Plant Barry Ash Pond  
01/10/2023 - 04/24/2023

| Appendix III Parameters   |                          |                   |                  |
|---------------------------|--------------------------|-------------------|------------------|
| Parameters                | Analytical Methods       | Reporting Limits  | Units of Measure |
| Boron                     | EPA 200.7                | 0.1015-10.15      | mg/L             |
| Calcium                   | EPA 200.7                | 0.406-40.599998   | mg/L             |
| Chloride                  | SM4500Cl E               | 0.5-50            | mg/L             |
| Fluoride                  | SM4500F G 2017           | 0.125             | mg/L             |
| pH_Field                  | Field Sampling           | NA                | SU               |
| Sulfate                   | SM4500SO4 E 2011         | 2-80              | mg/L             |
| TDS                       | NA                       | NA                | mg/L             |
| Appendix IV Parameters    |                          |                   |                  |
| Parameters                | Analytical Methods       | Reporting Limits  | Units of Measure |
| Antimony                  | EPA 200.8                | 0.001015          | mg/L             |
| Arsenic                   | EPA 200.8                | 0.000203          | mg/L             |
| Barium                    | EPA 200.8                | 0.001015-0.005075 | mg/L             |
| Beryllium                 | EPA 200.8                | 0.001015          | mg/L             |
| Cadmium                   | EPA 200.8                | 0.000203          | mg/L             |
| Chromium                  | EPA 200.8                | 0.001015          | mg/L             |
| Cobalt                    | EPA 200.8                | 0.000203          | mg/L             |
| Lead                      | EPA 200.8                | 0.000203          | mg/L             |
| Lithium                   | EPA 200.7                | 0.02              | mg/L             |
| Mercury                   | EPA 245.1                | 0.0005            | mg/L             |
| Molybdenum                | EPA 200.7                | 0.01015           | mg/L             |
|                           | EPA 200.8                | 0.000203          | mg/L             |
| Selenium                  | EPA 200.8                | 0.001015          | mg/L             |
| Thallium                  | EPA 200.8                | 0.000203          | mg/L             |
| Combined Radium 226 + 228 | Total Radium Calculation | 0.749-1.32        | pCi/L            |

Notes:

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

## Table 2. Parameters And Reporting Limits

Plant Barry Ash Pond  
01/10/2023 - 04/24/2023

| Appendix III Parameters   |                          |                   |                  |
|---------------------------|--------------------------|-------------------|------------------|
| Parameters                | Analytical Methods       | Reporting Limits  | Units of Measure |
| Boron                     | EPA 200.7                | 0.1015-10.15      | mg/L             |
| Calcium                   | EPA 200.7                | 0.406-40.599998   | mg/L             |
| Chloride                  | SM4500Cl E               | 0.5-50            | mg/L             |
| Fluoride                  | SM4500F G 2017           | 0.125             | mg/L             |
| pH_Field                  | Field Sampling           | NA                | SU               |
| Sulfate                   | SM4500SO4 E 2011         | 2-80              | mg/L             |
| TDS                       | NA                       | NA                | mg/L             |
| Appendix IV Parameters    |                          |                   |                  |
| Parameters                | Analytical Methods       | Reporting Limits  | Units of Measure |
| Antimony                  | EPA 200.8                | 0.001015          | mg/L             |
| Arsenic                   | EPA 200.8                | 0.000203          | mg/L             |
| Barium                    | EPA 200.8                | 0.001015-0.005075 | mg/L             |
| Beryllium                 | EPA 200.8                | 0.001015          | mg/L             |
| Cadmium                   | EPA 200.8                | 0.000203          | mg/L             |
| Chromium                  | EPA 200.8                | 0.001015          | mg/L             |
| Cobalt                    | EPA 200.8                | 0.000203          | mg/L             |
| Fluoride                  | SM4500F G 2017           | 0.125             | mg/L             |
| Lead                      | EPA 200.8                | 0.000203          | mg/L             |
| Lithium                   | EPA 200.7                | 0.02              | mg/L             |
| Mercury                   | EPA 245.1                | 0.0005            | mg/L             |
| Molybdenum                | EPA 200.7                | 0.01015           | mg/L             |
|                           | EPA 200.8                | 0.000203          | mg/L             |
| Selenium                  | EPA 200.8                | 0.001015          | mg/L             |
| Thallium                  | EPA 200.8                | 0.000203          | mg/L             |
| Combined Radium 226 + 228 | Total Radium Calculation | 0.749-1.32        | pCi/L            |

Notes:

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



### Table 3. Groundwater Elevations Summary

Plant Barry Ash Pond  
6/11/2023

| Measurement Date |                          | 6/11/2023                 |                                  |
|------------------|--------------------------|---------------------------|----------------------------------|
| Well             | TOC Elevation (ft. NAVD) | Depth To Water (ft. BTOC) | Groundwater Elevation (ft. NAVD) |
| BY-GSA-MW-1      | 20.66                    | 15.20                     | 5.46                             |
| BY-GSA-MW-2      | 19.95                    | 14.60                     | 5.35                             |
| BY-GSA-MW-3      | 23.24                    | 17.21                     | 6.03                             |
| BY-GSA-MW-4      | 29.12                    | 23.34                     | 5.78                             |
| BY-AP-MW-1       | 25.8                     | 22.71                     | 3.09                             |
| BY-AP-MW-2       | 23.89                    | 20.77                     | 3.12                             |
| BY-AP-MW-3       | 26.61                    | 23.32                     | 3.29                             |
| BY-AP-MW-4       | 26.97                    | 24.20                     | 2.77                             |
| BY-AP-MW-5       | 28.93                    | 26.59                     | 2.34                             |
| BY-AP-MW-6       | 26.69                    | 24.54                     | 2.15                             |
| BY-AP-MW-7       | 25.47                    | 23.69                     | 1.78                             |
| BY-AP-MW-8       | 25.11                    | 23.74                     | 1.37                             |
| BY-AP-MW-9       | 24.39                    | 23.06                     | 1.33                             |
| BY-AP-MW-10      | 24.07                    | 22.89                     | 1.18                             |
| BY-AP-MW-11      | 23.11                    | 21.66                     | 1.45                             |
| BY-AP-MW-12      | 23.88                    | 22.35                     | 1.53                             |
| BY-AP-MW-13      | 24.22                    | 22.55                     | 1.67                             |
| BY-AP-MW-14      | 11.74                    | 10.85                     | 0.89                             |
| BY-AP-MW-15      | 23.89                    | 22.00                     | 1.89                             |
| BY-AP-MW-16      | 25.01                    | 22.52                     | 2.49                             |
| BY-AP-MW-1V      | 26.23                    | 23.25                     | 2.98                             |
| BY-AP-MW-5V      | 28.94                    | 26.58                     | 2.36                             |
| BY-AP-MW-7V      | 25.06                    | 23.16                     | 1.90                             |
| BY-AP-MW-8V      | 25.18                    | 23.62                     | 1.56                             |
| BY-AP-MW-10V     | 25.39                    | 24.19                     | 1.20                             |
| BY-AP-MW-12V     | 23.45                    | 21.96                     | 1.49                             |
| BY-AP-MW-13V     | 24.65                    | 23.13                     | 1.52                             |
| BY-AP-MW-14V     | 24.72                    | 23.23                     | 1.49                             |
| BY-AP-MW-15V     | 7.03                     | 5.11                      | 1.92                             |
| BY-AP-MW-16V     | 23.65                    | 21.16                     | 2.49                             |
| BY-AP-MW-17V     | 20.4                     | 19.06                     | 1.34                             |
| BY-AP-MW-20V     | 24.91                    | 23.47                     | 1.44                             |
| BY-AP-MW-23V     | 15.33                    | 13.98                     | 1.35                             |
| BY-AP-MW-25VM    | 23.81                    | 21.31                     | 2.50                             |
| BY-AP-MW-17H     | 19.83                    | 18.52                     | 1.31                             |
| BY-AP-MW-18H     | 10.3                     | 8.86                      | 1.44                             |
| BY-AP-MW-19H     | 9.4                      | 7.98                      | 1.42                             |
| BY-AP-MW-20H     | 9.4                      | 7.92                      | 1.48                             |
| BY-AP-MW-22H     | 7.85                     | 6.13                      | 1.72                             |
| BY-AP-MW-23H     | 10.63                    | 9.22                      | 1.41                             |
| BY-AP-MW-24H     | 26.28                    | 24.23                     | 2.05                             |

Notes:

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



### Table 3. Groundwater Elevations Summary

Plant Barry Ash Pond  
6/11/2023

|               |       |       |      |
|---------------|-------|-------|------|
| BY-AP-MW-25H  | 23.82 | 21.22 | 2.60 |
| BY-AP-MW-15VM | 23.51 | 20.56 | 2.95 |

Notes:

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



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

Plant Barry Ash Pond  
04/03/2023 - 04/24/2023

| <b>BY-UP-MW-4</b>              |              |                        |                         |                |
|--------------------------------|--------------|------------------------|-------------------------|----------------|
| <b>Sample Date = 4/12/2023</b> |              |                        |                         |                |
| <b>Analyte</b>                 | <b>Units</b> | <b>Original Result</b> | <b>Duplicate Result</b> | <b>RPD (%)</b> |
| Calcium                        | mg/L         | 1.76                   | 1.76                    | 0.00%          |
| Chloride                       | mg/L         | 3.42                   | 3.39                    | 0.88%          |
| Sulfate                        | mg/L         | 5.93                   | 5.92                    | 0.17%          |
| Barium                         | mg/L         | 0.116                  | 0.117                   | 0.86%          |
| Chromium                       | mg/L         | 0.00128                | 0.00126                 | 1.58%          |
| Cobalt                         | mg/L         | 0.00127                | 0.00124                 | 2.39%          |
| <b>BY-AP-MW-12V</b>            |              |                        |                         |                |
| <b>Sample Date = 4/4/2023</b>  |              |                        |                         |                |
| <b>Analyte</b>                 | <b>Units</b> | <b>Original Result</b> | <b>Duplicate Result</b> | <b>RPD (%)</b> |
| Calcium                        | mg/L         | 20.3                   | 20.4                    | 0.49%          |
| Chloride                       | mg/L         | 26.3                   | 25.7                    | 2.31%          |
| Sulfate                        | mg/L         | 85.5                   | 88.4                    | 3.34%          |
| Arsenic                        | mg/L         | 0.0214                 | 0.0208                  | 2.84%          |
| Barium                         | mg/L         | 0.0978                 | 0.0971                  | 0.72%          |
| Cobalt                         | mg/L         | 0.00154                | 0.00164                 | 6.29%          |
| <b>BY-AP-MW-9</b>              |              |                        |                         |                |
| <b>Sample Date = 4/4/2023</b>  |              |                        |                         |                |
| <b>Analyte</b>                 | <b>Units</b> | <b>Original Result</b> | <b>Duplicate Result</b> | <b>RPD (%)</b> |
| Boron                          | mg/L         | 1.65                   | 1.65                    | 0.00%          |
| Calcium                        | mg/L         | 32.4                   | 32.8                    | 1.23%          |
| Chloride                       | mg/L         | 18                     | 18                      | 0.00%          |
| Sulfate                        | mg/L         | 25.3                   | 24.2                    | 4.44%          |
| Arsenic                        | mg/L         | 0.0145                 | 0.0147                  | 1.37%          |
| Barium                         | mg/L         | 0.128                  | 0.126                   | 1.58%          |
| Cobalt                         | mg/L         | 0.00074                | 0.00072                 | 1.92%          |
| <b>BY-AP-MW-24H</b>            |              |                        |                         |                |
| <b>Sample Date = 4/3/2023</b>  |              |                        |                         |                |
| <b>Analyte</b>                 | <b>Units</b> | <b>Original Result</b> | <b>Duplicate Result</b> | <b>RPD (%)</b> |
| Boron                          | mg/L         | 0.381                  | 0.378                   | 0.79%          |
| Calcium                        | mg/L         | 17.8                   | 18.1                    | 1.67%          |
| Chloride                       | mg/L         | 45.5                   | 46.3                    | 1.74%          |
| Fluoride                       | mg/L         | 0.175                  | 0.182                   | 3.92%          |
| Sulfate                        | mg/L         | 94                     | 112                     | 17.48%         |
| Arsenic                        | mg/L         | 0.0694                 | 0.0696                  | 0.29%          |



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

Plant Barry Ash Pond  
04/03/2023 - 04/12/2023

| BY-AP-MW-24H           |       |                 |                  |         |
|------------------------|-------|-----------------|------------------|---------|
| Sample Date = 4/3/2023 |       |                 |                  |         |
| Analyte                | Units | Original Result | Duplicate Result | RPD (%) |
| Barium                 | mg/L  | 0.235           | 0.23             | 2.15%   |
| Cobalt                 | mg/L  | 0.00563         | 0.0056           | 0.53%   |
| BY-AP-MW-25H           |       |                 |                  |         |
| Sample Date = 4/3/2023 |       |                 |                  |         |
| Analyte                | Units | Original Result | Duplicate Result | RPD (%) |
| Calcium                | mg/L  | 1.01            | 0.997            | 1.30%   |
| Chloride               | mg/L  | 5.52            | 5.54             | 0.36%   |
| Sulfate                | mg/L  | 4.48            | 4.48             | 0.00%   |
| Barium                 | mg/L  | 0.0187          | 0.0193           | 3.16%   |
| Chromium               | mg/L  | 0.00106         | 0.00122          | 14.04%  |
| Cobalt                 | mg/L  | 0.00113         | 0.00125          | 10.08%  |

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  
04/03/2023 - 04/24/2023

| Parameters Detected Above MDL |             |           |                     |       |        |
|-------------------------------|-------------|-----------|---------------------|-------|--------|
| Sample Date                   | QC Location | Parameter | Blank Concentration | Units | MDL    |
| 04/12/2023                    | FB-1        | Chromium  | 0.00032 J           | mg/L  | 0.0002 |
| 04/04/2023                    | FB-1        | Chromium  | 0.00023 J           | mg/L  | 0.0002 |
| 04/03/2023                    | EB-1        | Chromium  | 0.00025 J           | mg/L  | 0.0002 |

Notes:

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





## Table 5. Summary of Background Levels and Groundwater Protection Standards

### Plant Barry Ash Pond

| Appendix IV Analytes      |       |            |        |
|---------------------------|-------|------------|--------|
| Analyte                   | Units | Background | GWPS   |
| Antimony                  | mg/L  | 0.000928   | 0.006  |
| Arsenic                   | mg/L  | 0.0017     | 0.01   |
| Barium                    | mg/L  | 0.183      | 2      |
| Beryllium                 | mg/L  | 0.00093    | 0.004  |
| Cadmium                   | mg/L  | 7.2E-05    | 0.005  |
| Chromium                  | mg/L  | 0.00604    | 0.1    |
| Cobalt                    | mg/L  | 0.0157     | 0.0157 |
| 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  | 0.01015    | 0.1    |
| Selenium                  | mg/L  | 0.000702   | 0.05   |
| Thallium                  | mg/L  | 0.000203   | 0.002  |
| Combined Radium 226 + 228 | pCi/L | 2.19       | 5      |

Notes:

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

## Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary  
Plant Barry Ash Pond  
04/03/2023 - 04/24/2023

| Field Parameters   |             |             |                       |            |           |                |                           |                  |
|--------------------|-------------|-------------|-----------------------|------------|-----------|----------------|---------------------------|------------------|
| Hydraulic Location | Well        | Sample Date | Conductivity<br>uS/cm | DO<br>mg/L | ORP<br>mv | pH_Field<br>SU | Field<br>Temperature<br>C | Turbidity<br>NTU |
| Upgradient         | BY-UP-MW-1  | 04/12/2023  | 50.26                 | 0.28       | 234.04    | 4.77           | 20.31                     | 2.86             |
| Upgradient         | BY-UP-MW-2  | 04/12/2023  | 51.68                 | 6.08       | 422.56    | 4.67           | 19.45                     | 8.09             |
| Upgradient         | BY-UP-MW-3  | 04/12/2023  | 54.29                 | 5.66       | 397.4     | 4.83           | 19.52                     | 3.14             |
| Upgradient         | BY-UP-MW-4  | 04/12/2023  | 57.67                 | 5.97       | 397.5     | 4.73           | 20.79                     | 4.96             |
| Downgradient       | BY-AP-MW-1  | 04/03/2023  | 689.74                | 0.17       | -55.85    | 5.78           | 21.61                     | 4.85             |
| Downgradient       | BY-AP-MW-10 | 04/03/2023  | 644.19                | 0.17       | -62.3     | 6.05           | 21.82                     | 2.92             |
| Downgradient       | BY-AP-MW-11 | 04/04/2023  | 672.85                | 0.13       | -78.42    | 6.27           | 21.31                     | 4.71             |
| Downgradient       | BY-AP-MW-12 | 04/04/2023  | 584.5                 | 0.17       | -33.59    | 5.76           | 21.3                      | 2                |
| Downgradient       | BY-AP-MW-13 | 04/04/2023  | 352.44                | 0.19       | 12.18     | 6.06           | 20.83                     | 4.16             |
| Downgradient       | BY-AP-MW-14 | 04/05/2023  | 492.29                | 0.24       | -25.06    | 5.93           | 21.7                      | 1.88             |
| Downgradient       | BY-AP-MW-15 | 04/03/2023  | 592.6                 | 0.02       | -124.3    | 6.63           | 21.23                     | 8.81             |
| Downgradient       | BY-AP-MW-16 | 04/05/2023  | 562.14                | 0.06       | -31.36    | 5.83           | 21.91                     | 4.09             |
| Downgradient       | BY-AP-MW-2  | 04/03/2023  | 46.42                 | 0.53       | 138.69    | 4.88           | 21.66                     | 1.38             |
| Downgradient       | BY-AP-MW-3  | 04/04/2023  | 59.36                 | 1.02       | 137.72    | 5.31           | 22.13                     | 1.69             |
| Downgradient       | BY-AP-MW-4  | 04/04/2023  | 121.44                | 0.17       | 339.03    | 4.55           | 22.88                     | 3.02             |
| Downgradient       | BY-AP-MW-5  | 04/04/2023  | 259.08                | 0.12       | -14.73    | 5.84           | 22.61                     | 1.48             |
| Downgradient       | BY-AP-MW-6  | 04/04/2023  | 61.93                 | 0.55       | 245.91    | 5.33           | 21.41                     | 1.33             |
| Downgradient       | BY-AP-MW-7  | 04/03/2023  | 376.47                | 0.21       | -66.15    | 6.53           | 21.16                     | 1.03             |
| Downgradient       | BY-AP-MW-8  | 04/03/2023  | 154.48                | 0.12       | -105.54   | 6.34           | 19.37                     | 5.38             |
| Downgradient       | BY-AP-MW-9  | 04/04/2023  | 557.93                | 0.11       | -79.64    | 6.15           | 21.55                     | 3.66             |

Notes:

- "J" indicates the result was detected above the MDL but below the PQL
- "<" indicates the result was not detected above the MDL and is considered a non-detect.
- U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- NC = value not detected with alkalinity calculation

## Table 6. First Semi-Annual Monitoring Event

### Analytical Results Summary Plant Barry Ash Pond 04/03/2023 - 04/24/2023

| Field Parameters   |              |             |                       |            |           |                |                           |                  |
|--------------------|--------------|-------------|-----------------------|------------|-----------|----------------|---------------------------|------------------|
| Hydraulic Location | Well         | Sample Date | Conductivity<br>uS/cm | DO<br>mg/L | ORP<br>mv | pH_Field<br>SU | Field<br>Temperature<br>C | Turbidity<br>NTU |
| Vert. Delineation  | BY-AP-MW-10V | 04/03/2023  | 787.79                | 0.19       | -106.12   | 6.38           | 21.47                     | 0.95             |
| Vert. Delineation  | BY-AP-MW-12V | 04/04/2023  | 615.08                | 0.16       | -65.41    | 6.22           | 21.36                     | 1.78             |
| Vert. Delineation  | BY-AP-MW-13V | 04/04/2023  | 565.28                | 0.68       | -48.09    | 6.24           | 21.02                     | 3.69             |
| Vert. Delineation  | BY-AP-MW-14V | 04/04/2023  | 912.46                | 0.07       | -115.9    | 6.8            | 22.32                     | 3.19             |
| Vert. Delineation  | BY-AP-MW-15V | 04/24/2023  | 675.79                | 0.1        | 36.12     | 5.61           | 20.74                     | 4.37             |
| Vert. Delineation  | BY-AP-MW-16V | 04/04/2023  | 298.93                | 0.15       | 134.31    | 4.97           | 22.07                     | 8.86             |
| Vert. Delineation  | BY-AP-MW-17V | 04/04/2023  | 5004.48               | 0.13       | 35.18     | 6.48           | 22.09                     | 3.38             |
| Vert. Delineation  | BY-AP-MW-1V  | 04/04/2023  | 410.3                 | 0.11       | 122.38    | 5.69           | 22.74                     | 1.4              |
| Vert. Delineation  | BY-AP-MW-20V | 04/24/2023  | 283.31                | 0.2        | -38.79    | 6.35           | 20.16                     | 6.16             |
| Vert. Delineation  | BY-AP-MW-23V | 04/04/2023  | 2583.92               | 0.08       | -91.76    | 6.73           | 20.83                     | 2.6              |
| Vert. Delineation  | BY-AP-MW-25V | 04/03/2023  | 31.89                 | 3.45       | 233.01    | 4.8            | 23.31                     | 3.94             |
| Vert. Delineation  | BY-AP-MW-5V  | 04/04/2023  | 236.13                | 0.39       | 131.01    | 5.99           | 22.54                     | 3.45             |
| Vert. Delineation  | BY-AP-MW-7V  | 04/03/2023  | 561.78                | 0.17       | -184.77   | 7.67           | 21.47                     | 1.94             |
| Vert. Delineation  | BY-AP-MW-8V  | 04/03/2023  | 1142.75               | 0.12       | -67.82    | 6.5            | 21.45                     | 5.17             |
| Horiz. Delineation | BY-AP-MW-17H | 04/04/2023  | 331.33                | 0.09       | -48.7     | 6.25           | 22.18                     | 8.7              |
| Horiz. Delineation | BY-AP-MW-18H | 04/05/2023  | 124.04                | 0.22       | -79.95    | 6.15           | 18.15                     | 4.13             |
| Horiz. Delineation | BY-AP-MW-19H | 04/24/2023  | 435.36                | 0.02       | -75.26    | 6.35           | 20.04                     | 0.9              |
| Horiz. Delineation | BY-AP-MW-20H | 04/24/2023  | 759.26                | 0.04       | -69.55    | 6.16           | 19.83                     | 1.8              |
| Horiz. Delineation | BY-AP-MW-22H | 04/24/2023  | 660.41                | 0.04       | -94.71    | 6.46           | 20.02                     | 0.91             |
| Horiz. Delineation | BY-AP-MW-23H | 04/04/2023  | 396.41                | 0.01       | -75.8     | 5.94           | 20.14                     | 3.24             |

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

## Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary  
Plant Barry Ash Pond  
04/03/2023 - 04/24/2023

| Field Parameters   |              |             |                       |            |           |                |                           |                  |
|--------------------|--------------|-------------|-----------------------|------------|-----------|----------------|---------------------------|------------------|
| Hydraulic Location | Well         | Sample Date | Conductivity<br>uS/cm | DO<br>mg/L | ORP<br>mv | pH_Field<br>SU | Field<br>Temperature<br>C | Turbidity<br>NTU |
| Horiz. Delineation | BY-AP-MW-24H | 04/03/2023  | 804.05                | 0.03       | -75.45    | 6.08           | 21.89                     | 7.19             |
| Horiz. Delineation | BY-AP-MW-25H | 04/03/2023  | 45.8                  | 0.72       | 231.08    | 4.65           | 23.02                     | 3.98             |

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
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3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

## Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary  
Plant Barry Ash Pond  
04/03/2023 - 04/24/2023

| EPA Appendix III Set |              |             |            |              |               |               |             |              |
|----------------------|--------------|-------------|------------|--------------|---------------|---------------|-------------|--------------|
| Hydraulic Location   | Well         | Sample Date | Boron mg/L | Calcium mg/L | Chloride mg/L | Fluoride mg/L | pH_Field SU | Sulfate mg/L |
| Upgradient           | BY-UP-MW-1   | 04/12/2023  | 0.0464 J   | 1.02         | 2.31          | <0.06         | 4.77        | 11.8         |
| Upgradient           | BY-UP-MW-2   | 04/12/2023  | <0.03      | 1.16         | 2.25          | <0.06         | 4.67        | 8.54         |
| Upgradient           | BY-UP-MW-3   | 04/12/2023  | <0.03      | 1.83         | 3.11          | <0.06         | 4.83        | 7.59         |
| Upgradient           | BY-UP-MW-4   | 04/12/2023  | <0.03      | 1.76         | 3.42          | <0.06         | 4.73        | 5.93         |
| Downgradient         | BY-AP-MW-1   | 04/03/2023  | 2.04       | 36.9         | 23.7          | 0.0717 J      | 5.78        | 34.2         |
| Downgradient         | BY-AP-MW-10  | 04/03/2023  | 2.22       | 48.8         | 29.7          | <0.06         | 6.05        | 15           |
| Downgradient         | BY-AP-MW-11  | 04/04/2023  | 0.0581 J   | 26.6         | 28.9          | 0.126         | 6.27        | 84.3         |
| Downgradient         | BY-AP-MW-12  | 04/04/2023  | 0.0629 J   | 23.3         | 25            | 0.081 J       | 5.76        | 39.6         |
| Downgradient         | BY-AP-MW-13  | 04/04/2023  | 0.0391 J   | 47.7         | 14.3          | 0.187         | 6.06        | 24.6         |
| Downgradient         | BY-AP-MW-14  | 04/05/2023  | 0.0587 J   | 9.78         | 47            | 0.127         | 5.93        | 112          |
| Downgradient         | BY-AP-MW-15  | 04/03/2023  | 0.0713 J   | 6.76         | 91.5          | 0.26          | 6.63        | 8.28         |
| Downgradient         | BY-AP-MW-16  | 04/05/2023  | 2.29       | 11.4         | 21.8          | 0.144         | 5.83        | 9.3          |
| Downgradient         | BY-AP-MW-2   | 04/03/2023  | <0.03      | 1.79         | 7.35          | <0.06         | 4.88        | 1.77 J       |
| Downgradient         | BY-AP-MW-3   | 04/04/2023  | 0.0468 J   | 1.29         | 9.66          | <0.06         | 5.31        | 2.92         |
| Downgradient         | BY-AP-MW-4   | 04/04/2023  | <0.03      | 3.36         | 32.4          | <0.06         | 4.55        | 2.33         |
| Downgradient         | BY-AP-MW-5   | 04/04/2023  | 0.0381 J   | 8.36         | 17.2          | 0.0631 J      | 5.84        | 43.9         |
| Downgradient         | BY-AP-MW-6   | 04/04/2023  | <0.03      | 1.94         | 7.81          | <0.06         | 5.33        | 1.59 J       |
| Downgradient         | BY-AP-MW-7   | 04/03/2023  | 0.174      | 3.52         | 59.4          | 0.171         | 6.53        | 14.8         |
| Downgradient         | BY-AP-MW-8   | 04/03/2023  | 0.129      | 4.21         | 10.8          | 0.0706 J      | 6.34        | 32.1         |
| Downgradient         | BY-AP-MW-9   | 04/04/2023  | 1.65       | 32.4         | 18            | 0.0797 J      | 6.15        | 25.3         |
| Vert. Delineation    | BY-AP-MW-10V | 04/03/2023  | 0.965      | 59.2         | 26.1          | <0.06         | 6.38        | 13           |

Notes:

- "J" indicates the result was detected above the MDL but below the PQL
- "<" indicates the result was not detected above the MDL and is considered a non-detect.
- U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- NC = value not detected with alkalinity calculation

## Table 6. First Semi-Annual Monitoring Event

### Analytical Results Summary Plant Barry Ash Pond 04/03/2023 - 04/24/2023

| EPA Appendix III Set |              |             |            |              |               |               |             |              |
|----------------------|--------------|-------------|------------|--------------|---------------|---------------|-------------|--------------|
| Hydraulic Location   | Well         | Sample Date | Boron mg/L | Calcium mg/L | Chloride mg/L | Fluoride mg/L | pH_Field SU | Sulfate mg/L |
| Vert. Delineation    | BY-AP-MW-12V | 04/04/2023  | 0.0809 J   | 20.3         | 26.3          | 0.126         | 6.22        | 85.5         |
| Vert. Delineation    | BY-AP-MW-13V | 04/04/2023  | 0.0745 J   | 14.4         | 52.1          | 0.0687 J      | 6.24        | 29.5         |
| Vert. Delineation    | BY-AP-MW-14V | 04/04/2023  | 0.39       | 5.34         | 174           | 0.302         | 6.8         | 11.7         |
| Vert. Delineation    | BY-AP-MW-15V | 04/24/2023  | 0.0423 J   | 9.13         | 192           | <0.06         | 5.61        | 1.93 J       |
| Vert. Delineation    | BY-AP-MW-16V | 04/04/2023  | <0.03      | 2.35         | 55            | <0.06         | 4.97        | 34           |
| Vert. Delineation    | BY-AP-MW-17V | 04/04/2023  | 0.285      | 83.2         | 1540          | 0.108 J       | 6.48        | 59           |
| Vert. Delineation    | BY-AP-MW-1V  | 04/04/2023  | 0.0656 J   | 2.57         | 92.3          | <0.06         | 5.69        | 19           |
| Vert. Delineation    | BY-AP-MW-20V | 04/24/2023  | <0.03      | 24.3         | 20.7          | 0.145         | 6.35        | 8.99         |
| Vert. Delineation    | BY-AP-MW-23V | 04/04/2023  | 0.245      | 42.5         | 741           | 0.0682 J      | 6.73        | 32.9         |
| Vert. Delineation    | BY-AP-MW-25V | 04/03/2023  | <0.03      | 0.703        | 3.61          | <0.06         | 4.8         | 2.28         |
| Vert. Delineation    | BY-AP-MW-5V  | 04/04/2023  | 0.0924 J   | 2.13         | 39.5          | <0.06         | 5.99        | 4.84         |
| Vert. Delineation    | BY-AP-MW-7V  | 04/03/2023  | 0.293      | 1.43         | 85.8          | 0.418         | 7.67        | 5.29         |
| Vert. Delineation    | BY-AP-MW-8V  | 04/03/2023  | 0.245      | 8.95         | 279           | 0.212         | 6.5         | 21.7         |
| Horiz. Delineation   | BY-AP-MW-17H | 04/04/2023  | 0.0474 J   | 10.4         | 17.6          | 0.176         | 6.25        | 17.2         |
| Horiz. Delineation   | BY-AP-MW-18H | 04/05/2023  | 0.0377 J   | 4.89         | 6.46          | 0.0765 J      | 6.15        | 67           |
| Horiz. Delineation   | BY-AP-MW-19H | 04/24/2023  | 0.876      | 28.5         | 15.2          | 0.083 J       | 6.35        | 38.7         |
| Horiz. Delineation   | BY-AP-MW-20H | 04/24/2023  | 0.0573 J   | 28.1         | 37.6          | 0.0659 J      | 6.16        | 63.6         |
| Horiz. Delineation   | BY-AP-MW-22H | 04/24/2023  | 0.0696 J   | 14.3         | 63.7          | 0.255         | 6.46        | 152          |
| Horiz. Delineation   | BY-AP-MW-23H | 04/04/2023  | 0.0481 J   | 23.5         | 9.01          | 0.0744 J      | 5.94        | 15.2         |
| Horiz. Delineation   | BY-AP-MW-24H | 04/03/2023  | 0.381      | 17.8         | 45.5          | 0.175         | 6.08        | 94           |
| Horiz. Delineation   | BY-AP-MW-25H | 04/03/2023  | <0.03      | 1.01         | 5.52          | <0.06         | 4.65        | 4.48         |

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

### Analytical Results Summary Plant Barry Ash Pond 04/03/2023 - 04/24/2023

| EPA Appendix IV Set |             |             |               |              |             |                |              |               |             |               |
|---------------------|-------------|-------------|---------------|--------------|-------------|----------------|--------------|---------------|-------------|---------------|
| Hydraulic Location  | Well        | Sample Date | Antimony mg/L | Arsenic mg/L | Barium mg/L | Beryllium mg/L | Cadmium mg/L | Chromium mg/L | Cobalt mg/L | Fluoride mg/L |
| Upgradient          | BY-UP-MW-1  | 04/12/2023  | <0.00071      | 0.00023      | 0.082       | <0.000406      | <6.8e-005    | 0.000215 J    | 0.00398     | <0.06         |
| Upgradient          | BY-UP-MW-2  | 04/12/2023  | <0.00071      | 0.0002 J     | 0.138       | 0.000416 J     | <6.8e-005    | 0.00152       | 0.00157     | <0.06         |
| Upgradient          | BY-UP-MW-3  | 04/12/2023  | <0.00071      | <0.000112    | 0.0925      | <0.000406      | <6.8e-005    | 0.00138       | 0.0013      | <0.06         |
| Upgradient          | BY-UP-MW-4  | 04/12/2023  | <0.00071      | 0.000114 J   | 0.116       | <0.000406      | <6.8e-005    | 0.00128       | 0.00127     | <0.06         |
| Downgradient        | BY-AP-MW-1  | 04/03/2023  | <0.00071      | 0.068        | 0.226       | <0.000406      | <6.8e-005    | 0.00638       | 0.00133     | 0.0717 J      |
| Downgradient        | BY-AP-MW-10 | 04/03/2023  | <0.00071      | 0.0561       | 0.0628      | <0.000406      | <6.8e-005    | 0.00066 J     | 0.000622    | <0.06         |
| Downgradient        | BY-AP-MW-11 | 04/04/2023  | <0.00071      | 0.0128       | 0.0699      | <0.000406      | <6.8e-005    | 0.00254       | 0.000946    | 0.126         |
| Downgradient        | BY-AP-MW-12 | 04/04/2023  | <0.00071      | 0.0218       | 0.074       | <0.000406      | <6.8e-005    | 0.00351       | 0.00309     | 0.081 J       |
| Downgradient        | BY-AP-MW-13 | 04/04/2023  | <0.00071      | 0.00645      | 0.0526      | <0.000406      | <6.8e-005    | 0.00286       | 0.000801    | 0.187         |
| Downgradient        | BY-AP-MW-14 | 04/05/2023  | <0.00071      | 0.017        | 0.0594      | <0.000406      | <6.8e-005    | 0.00336       | 0.00119     | 0.127         |
| Downgradient        | BY-AP-MW-15 | 04/03/2023  | <0.00071      | 0.02         | 0.081       | <0.000406      | <6.8e-005    | 0.000638 J    | 0.0345      | 0.26          |
| Downgradient        | BY-AP-MW-16 | 04/05/2023  | <0.00071      | 0.0156       | 0.0852      | <0.000406      | <6.8e-005    | 0.00125       | 0.00721     | 0.144         |
| Downgradient        | BY-AP-MW-2  | 04/03/2023  | <0.00071      | 0.00156      | 0.018       | <0.000406      | <6.8e-005    | 0.000877 J    | 0.0042      | <0.06         |
| Downgradient        | BY-AP-MW-3  | 04/04/2023  | <0.00071      | 0.000455     | 0.0271      | <0.000406      | <6.8e-005    | 0.00053 J     | 0.000108 J  | <0.06         |
| Downgradient        | BY-AP-MW-4  | 04/04/2023  | <0.00071      | <0.000112    | 0.118       | 0.000432 J     | 8.96e-005 J  | 0.000444 J    | 0.0031      | <0.06         |
| Downgradient        | BY-AP-MW-5  | 04/04/2023  | <0.00071      | 0.0191       | 0.0842      | <0.000406      | <6.8e-005    | 0.000894 J    | 0.00112     | 0.0631 J      |
| Downgradient        | BY-AP-MW-6  | 04/04/2023  | <0.00071      | <0.000112    | 0.0275      | <0.000406      | <6.8e-005    | 0.000267 J    | 0.000584    | <0.06         |
| Downgradient        | BY-AP-MW-7  | 04/03/2023  | <0.00071      | 0.013        | 0.0288      | <0.000406      | <6.8e-005    | 0.000246 J    | 0.00492     | 0.171         |
| Downgradient        | BY-AP-MW-8  | 04/03/2023  | <0.00071      | 0.00353      | 0.0223      | <0.000406      | <6.8e-005    | 0.00115       | 0.000153 J  | 0.0706 J      |

**Notes:**

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3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

## Table 6. First Semi-Annual Monitoring Event

### Analytical Results Summary Plant Barry Ash Pond 04/03/2023 - 04/24/2023

| EPA Appendix IV Set |             |             |             |              |              |                 |               |               |                                 |
|---------------------|-------------|-------------|-------------|--------------|--------------|-----------------|---------------|---------------|---------------------------------|
| Hydraulic Location  | Well        | Sample Date | Lead mg/L   | Lithium mg/L | Mercury mg/L | Molybdenum mg/L | Selenium mg/L | Thallium mg/L | Combined Radium 226 + 228 pCi/L |
| Upgradient          | BY-UP-MW-1  | 04/12/2023  | 7.57e-005 J | <0.007105    | <0.0003      | <0.005075       | <0.000508     | <6.8e-005     | 1.03 U                          |
| Upgradient          | BY-UP-MW-2  | 04/12/2023  | 0.00014 J   | <0.007105    | <0.0003      | <0.005075       | 0.000702 J    | <6.8e-005     | 1.07                            |
| Upgradient          | BY-UP-MW-3  | 04/12/2023  | 8.25e-005 J | <0.007105    | <0.0003      | <0.005075       | <0.000508     | <6.8e-005     | 1.28                            |
| Upgradient          | BY-UP-MW-4  | 04/12/2023  | 8.65e-005 J | <0.007105    | <0.0003      | <0.005075       | <0.000508     | <6.8e-005     | 1.17                            |
| Downgradient        | BY-AP-MW-1  | 04/03/2023  | 0.000122 J  | <0.007105    | <0.0003      | <0.005075       | <0.000508     | <6.8e-005     | 1.84                            |
| Downgradient        | BY-AP-MW-10 | 04/03/2023  | <6.8e-005   | <0.007105    | <0.0003      | <0.005075       | <0.000508     | <6.8e-005     | 0.75 U                          |
| Downgradient        | BY-AP-MW-11 | 04/04/2023  | 6.9e-005 J  | 0.034        | <0.0003      | <0.005075       | <0.000508     | <6.8e-005     | 0.562 U                         |
| Downgradient        | BY-AP-MW-12 | 04/04/2023  | <6.8e-005   | <0.007105    | <0.0003      | <0.005075       | <0.000508     | <6.8e-005     | 1.42                            |
| Downgradient        | BY-AP-MW-13 | 04/04/2023  | 0.000101 J  | <0.007105    | <0.0003      | 0.0108          | 0.000664 J    | <6.8e-005     | 0.885 U                         |
| Downgradient        | BY-AP-MW-14 | 04/05/2023  | 0.00011 J   | <0.007105    | <0.0003      | <0.005075       | <0.000508     | <6.8e-005     | 0.746 U                         |
| Downgradient        | BY-AP-MW-15 | 04/03/2023  | <6.8e-005   | 0.0189 J     | <0.0003      | <0.005075       | <0.000508     | <6.8e-005     | 1.63                            |
| Downgradient        | BY-AP-MW-16 | 04/05/2023  | <6.8e-005   | <0.007105    | <0.0003      | <0.005075       | <0.000508     | <6.8e-005     | 1.5                             |
| Downgradient        | BY-AP-MW-2  | 04/03/2023  | <6.8e-005   | <0.007105    | <0.0003      | <0.005075       | <0.000508     | <6.8e-005     | 0.24 U                          |
| Downgradient        | BY-AP-MW-3  | 04/04/2023  | <6.8e-005   | <0.007105    | <0.0003      | <0.005075       | <0.000508     | <6.8e-005     | 0.479 U                         |
| Downgradient        | BY-AP-MW-4  | 04/04/2023  | 8.51e-005 J | <0.007105    | <0.0003      | <0.005075       | <0.000508     | <6.8e-005     | 1.82                            |
| Downgradient        | BY-AP-MW-5  | 04/04/2023  | <6.8e-005   | <0.007105    | <0.0003      | <0.005075       | <0.000508     | <6.8e-005     | 1.15                            |
| Downgradient        | BY-AP-MW-6  | 04/04/2023  | 0.00183     | <0.007105    | <0.0003      | <0.005075       | <0.000508     | <6.8e-005     | 1.33                            |
| Downgradient        | BY-AP-MW-7  | 04/03/2023  | <6.8e-005   | <0.007105    | <0.0003      | <0.005075       | <0.000508     | <6.8e-005     | 0.49 U                          |
| Downgradient        | BY-AP-MW-8  | 04/03/2023  | <6.8e-005   | <0.007105    | <0.0003      | <0.005075       | <0.000508     | <6.8e-005     | 1.21                            |

Notes:

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



## Table 6. First Semi-Annual Monitoring Event

### Analytical Results Summary Plant Barry Ash Pond 04/03/2023 - 04/24/2023

| EPA Appendix IV Set |              |             |               |              |             |                |              |               |             |               |
|---------------------|--------------|-------------|---------------|--------------|-------------|----------------|--------------|---------------|-------------|---------------|
| Hydraulic Location  | Well         | Sample Date | Antimony mg/L | Arsenic mg/L | Barium mg/L | Beryllium mg/L | Cadmium mg/L | Chromium mg/L | Cobalt mg/L | Fluoride mg/L |
| Downgradient        | BY-AP-MW-9   | 04/04/2023  | <0.00071      | 0.0145       | 0.128       | <0.000406      | <6.8e-005    | 0.00062 J     | 0.000737    | 0.0797 J      |
| Vert. Delineation   | BY-AP-MW-10V | 04/03/2023  | <0.00071      | 0.000359     | 0.189       | <0.000406      | <6.8e-005    | 0.000508 J    | 0.000623    | <0.06         |
| Vert. Delineation   | BY-AP-MW-12V | 04/04/2023  | <0.00071      | 0.0214       | 0.0978      | <0.000406      | <6.8e-005    | 0.000978 J    | 0.00154     | 0.126         |
| Vert. Delineation   | BY-AP-MW-13V | 04/04/2023  | <0.00071      | 0.00843      | 0.106       | <0.000406      | <6.8e-005    | 0.00417       | 0.00106     | 0.0687 J      |
| Vert. Delineation   | BY-AP-MW-14V | 04/04/2023  | <0.00071      | 0.00501      | 0.0645      | <0.000406      | <6.8e-005    | 0.00049 J     | 0.00396     | 0.302         |
| Vert. Delineation   | BY-AP-MW-15V | 04/24/2023  | <0.00071      | 0.0224       | 0.164       | <0.000406      | 0.000212     | 0.000278 J    | 0.0817      | <0.06         |
| Vert. Delineation   | BY-AP-MW-16V | 04/04/2023  | <0.00071      | 0.00092      | 0.0618      | <0.000406      | <6.8e-005    | 0.00133       | 0.0168      | <0.06         |
| Vert. Delineation   | BY-AP-MW-17V | 04/04/2023  | <0.00071      | 0.00113      | 1.11        | <0.000406      | 0.000114 J   | 0.000244 J    | 0.13        | 0.108 J       |
| Vert. Delineation   | BY-AP-MW-1V  | 04/04/2023  | <0.00071      | 0.000633     | 0.0564      | <0.000406      | <6.8e-005    | 0.000342 J    | 0.00568     | <0.06         |
| Vert. Delineation   | BY-AP-MW-20V | 04/24/2023  | <0.00071      | 0.00175      | 0.0548      | <0.000406      | <6.8e-005    | 0.000721 J    | 0.000458    | 0.145         |
| Vert. Delineation   | BY-AP-MW-23V | 04/04/2023  | <0.00071      | 0.00445      | 0.262       | <0.000406      | <6.8e-005    | 0.000237 J    | 0.0375      | 0.0682 J      |
| Vert. Delineation   | BY-AP-MW-25V | 04/03/2023  | <0.00071      | <0.000112    | 0.0105      | <0.000406      | <6.8e-005    | 0.0013        | 0.000304    | <0.06         |
| Vert. Delineation   | BY-AP-MW-5V  | 04/04/2023  | <0.00071      | <0.000112    | 0.0465      | <0.000406      | <6.8e-005    | 0.000566 J    | <6.8e-005   | <0.06         |
| Vert. Delineation   | BY-AP-MW-7V  | 04/03/2023  | <0.00071      | 0.00117      | 0.01        | <0.000406      | <6.8e-005    | 0.00059 J     | 0.000148 J  | 0.418         |
| Vert. Delineation   | BY-AP-MW-8V  | 04/03/2023  | <0.00071      | 0.000552     | 0.139       | <0.000406      | <6.8e-005    | 0.000809 J    | 0.000362    | 0.212         |
| Horiz. Delineation  | BY-AP-MW-17H | 04/04/2023  | <0.00071      | 0.0192       | 0.125       | <0.000406      | <6.8e-005    | 0.00042 J     | 0.000596    | 0.176         |
| Horiz. Delineation  | BY-AP-MW-18H | 04/05/2023  | <0.00071      | 0.000869     | 0.0207      | <0.000406      | <6.8e-005    | 0.000484 J    | <6.8e-005   | 0.0765 J      |
| Horiz. Delineation  | BY-AP-MW-19H | 04/24/2023  | <0.00071      | 0.000745     | 0.136       | <0.000406      | <6.8e-005    | 0.000396 J    | 0.00147     | 0.083 J       |
| Horiz. Delineation  | BY-AP-MW-20H | 04/24/2023  | <0.00071      | 0.0133       | 0.098       | <0.000406      | <6.8e-005    | 0.00253       | 0.00442     | 0.0659 J      |
| Horiz. Delineation  | BY-AP-MW-22H | 04/24/2023  | <0.00071      | 0.0191       | 0.209       | <0.000406      | <6.8e-005    | 0.000486 J    | 0.00275     | 0.255         |

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6. NC = value not detected with alkalinity calculation

## Table 6. First Semi-Annual Monitoring Event

### Analytical Results Summary Plant Barry Ash Pond 04/03/2023 - 04/24/2023

| EPA Appendix IV Set |              |             |             |              |              |                 |               |               |                                 |
|---------------------|--------------|-------------|-------------|--------------|--------------|-----------------|---------------|---------------|---------------------------------|
| Hydraulic Location  | Well         | Sample Date | Lead mg/L   | Lithium mg/L | Mercury mg/L | Molybdenum mg/L | Selenium mg/L | Thallium mg/L | Combined Radium 226 + 228 pCi/L |
| Downgradient        | BY-AP-MW-9   | 04/04/2023  | <6.8e-005   | <0.007105    | <0.0003      | <0.005075       | <0.000508     | <6.8e-005     | 1.05 U                          |
| Vert. Delineation   | BY-AP-MW-10V | 04/03/2023  | <6.8e-005   | <0.007105    | <0.0003      | <0.005075       | <0.000508     | <6.8e-005     | 1.24                            |
| Vert. Delineation   | BY-AP-MW-12V | 04/04/2023  | <6.8e-005   | <0.007105    | <0.0003      | <0.005075       | <0.000508     | <6.8e-005     | 1.48                            |
| Vert. Delineation   | BY-AP-MW-13V | 04/04/2023  | <6.8e-005   | 0.0351       | <0.0003      | <0.005075       | <0.000508     | <6.8e-005     | 0.957 U                         |
| Vert. Delineation   | BY-AP-MW-14V | 04/04/2023  | <6.8e-005   | <0.007105    | <0.0003      | <0.005075       | <0.000508     | <6.8e-005     | 1.23 U                          |
| Vert. Delineation   | BY-AP-MW-15V | 04/24/2023  | <6.8e-005   | <0.007105    | <0.0003      | <0.005075       | <0.000508     | 0.000107 J    | 2.02                            |
| Vert. Delineation   | BY-AP-MW-16V | 04/04/2023  | 0.000253    | <0.007105    | <0.0003      | <0.005075       | <0.000508     | 8.22e-005 J   | 1.07                            |
| Vert. Delineation   | BY-AP-MW-17V | 04/04/2023  | <6.8e-005   | <0.007105    | <0.0003      | <0.005075       | <0.000508     | 0.000362      | 9.59                            |
| Vert. Delineation   | BY-AP-MW-1V  | 04/04/2023  | <6.8e-005   | <0.007105    | <0.0003      | <0.005075       | <0.000508     | <6.8e-005     | 1.62                            |
| Vert. Delineation   | BY-AP-MW-20V | 04/24/2023  | 8.63e-005 J | <0.007105    | <0.0003      | <0.005075       | <0.000508     | <6.8e-005     | 0.605 U                         |
| Vert. Delineation   | BY-AP-MW-23V | 04/04/2023  | <6.8e-005   | <0.007105    | <0.0003      | <0.005075       | <0.000508     | <6.8e-005     | 1.91                            |
| Vert. Delineation   | BY-AP-MW-25V | 04/03/2023  | <6.8e-005   | <0.007105    | <0.0003      | <0.005075       | <0.000508     | <6.8e-005     | 1.32                            |
| Vert. Delineation   | BY-AP-MW-5V  | 04/04/2023  | <6.8e-005   | <0.007105    | <0.0003      | <0.005075       | <0.000508     | <6.8e-005     | 1.13 U                          |
| Vert. Delineation   | BY-AP-MW-7V  | 04/03/2023  | 0.000161 J  | <0.007105    | <0.0003      | <0.005075       | <0.000508     | <6.8e-005     | 0.856 U                         |
| Vert. Delineation   | BY-AP-MW-8V  | 04/03/2023  | 0.000158 J  | 0.00904 J    | <0.0003      | <0.005075       | <0.000508     | <6.8e-005     | 0.795 U                         |
| Horiz. Delineation  | BY-AP-MW-17H | 04/04/2023  | 7.57e-005 J | <0.007105    | <0.0003      | <0.005075       | <0.000508     | <6.8e-005     | 1.09 U                          |
| Horiz. Delineation  | BY-AP-MW-18H | 04/05/2023  | <6.8e-005   | <0.007105    | <0.0003      | <0.005075       | <0.000508     | <6.8e-005     | 0.675 U                         |
| Horiz. Delineation  | BY-AP-MW-19H | 04/24/2023  | <6.8e-005   | <0.007105    | <0.0003      | <0.005075       | <0.000508     | <6.8e-005     | 1.35                            |
| Horiz. Delineation  | BY-AP-MW-20H | 04/24/2023  | <6.8e-005   | <0.007105    | <0.0003      | <0.005075       | <0.000508     | <6.8e-005     | 1.17                            |
| Horiz. Delineation  | BY-AP-MW-22H | 04/24/2023  | <6.8e-005   | <0.007105    | <0.0003      | <0.005075       | <0.000508     | <6.8e-005     | 1 U                             |

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

## Table 6. First Semi-Annual Monitoring Event

### Analytical Results Summary Plant Barry Ash Pond 04/03/2023 - 04/24/2023

| EPA Appendix IV Set |              |             |                  |                 |                |                   |                 |                  |                |                  |
|---------------------|--------------|-------------|------------------|-----------------|----------------|-------------------|-----------------|------------------|----------------|------------------|
| Hydraulic Location  | Well         | Sample Date | Antimony<br>mg/L | Arsenic<br>mg/L | Barium<br>mg/L | Beryllium<br>mg/L | Cadmium<br>mg/L | Chromium<br>mg/L | Cobalt<br>mg/L | Fluoride<br>mg/L |
| Horiz. Delineation  | BY-AP-MW-23H | 04/04/2023  | <0.00071         | 0.00291         | 0.159          | <0.000406         | <6.8e-005       | 0.000406 J       | 0.000522       | 0.0744 J         |
| Horiz. Delineation  | BY-AP-MW-24H | 04/03/2023  | <0.00071         | 0.0694          | 0.235          | <0.000406         | <6.8e-005       | 0.000781 J       | 0.00563        | 0.175            |
| Horiz. Delineation  | BY-AP-MW-25H | 04/03/2023  | <0.00071         | 0.000135 J      | 0.0187         | <0.000406         | <6.8e-005       | 0.00106          | 0.00113        | <0.06            |

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3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

## Table 6. First Semi-Annual Monitoring Event

**Analytical Results Summary  
Plant Barry Ash Pond  
04/03/2023 - 04/24/2023**

| EPA Appendix IV Set |              |             |              |                 |                 |                    |                  |                  |  |
|---------------------|--------------|-------------|--------------|-----------------|-----------------|--------------------|------------------|------------------|--|
| Hydraulic Location  | Well         | Sample Date | Lead<br>mg/L | Lithium<br>mg/L | Mercury<br>mg/L | Molybdenum<br>mg/L | Selenium<br>mg/L | Thallium<br>mg/L | Combined<br>Radium 226 +<br>228<br>pCi/L |
| Horiz. Delineation  | BY-AP-MW-23H | 04/04/2023  | <6.8e-005    | <0.007105       | <0.0003         | <0.005075          | <0.000508        | <6.8e-005        | 0.92 U                                   |
| Horiz. Delineation  | BY-AP-MW-24H | 04/03/2023  | <6.8e-005    | <0.007105       | <0.0003         | <0.005075          | <0.000508        | <6.8e-005        | 1.46                                     |
| Horiz. Delineation  | BY-AP-MW-25H | 04/03/2023  | <6.8e-005    | <0.007105       | <0.0003         | <0.005075          | <0.000508        | <6.8e-005        | 0.724 U                                  |

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3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

## Table 6. First Semi-Annual Monitoring Event

### Analytical Results Summary Plant Barry Ash Pond 04/03/2023 - 04/24/2023

| General Chemistry and MNA Parameters |             |             |              |               |                           |              |               |              |                 |                |
|--------------------------------------|-------------|-------------|--------------|---------------|---------------------------|--------------|---------------|--------------|-----------------|----------------|
| Hydraulic Location                   | Well        | Sample Date | Sulfide mg/L | Chloride mg/L | Nitrate Nitrite mg/L as N | Sulfate mg/L | Aluminum mg/L | Calcium mg/L | Iron Total mg/L | Potassium mg/L |
| Upgradient                           | BY-UP-MW-1  | 04/12/2023  | 0            | 2.31          | <0.2                      | 11.8         | 0.0616        | 1.02         | 3.9             | 0.474 J        |
| Upgradient                           | BY-UP-MW-2  | 04/12/2023  | 0            | 2.25          | 1.27                      | 8.54         | 0.232         | 1.16         | 0.22            | 0.857          |
| Upgradient                           | BY-UP-MW-3  | 04/12/2023  | 0            | 3.11          | 1.65                      | 7.59         | 0.0764        | 1.83         | 0.0691          | 0.935          |
| Upgradient                           | BY-UP-MW-4  | 04/12/2023  | 0            | 3.42          | 2.09                      | 5.93         | 0.154         | 1.76         | 0.0726          | 0.944          |
| Downgradient                         | BY-AP-MW-1  | 04/03/2023  | 0            | 23.7          | 0.245 J                   | 34.2         | 0.157         | 36.9         | 110             | 2.11           |
| Downgradient                         | BY-AP-MW-10 | 04/03/2023  | 0            | 29.7          | 0.23 J                    | 15           | <0.009135     | 48.8         | 70.7            | 1.7            |
| Downgradient                         | BY-AP-MW-11 | 04/04/2023  | 0            | 28.9          | 0.227 J                   | 84.3         | 0.0493 J      | 26.6         | 73.5            | 12.1           |
| Downgradient                         | BY-AP-MW-12 | 04/04/2023  | 0            | 25            | <0.2                      | 39.6         | 0.0392 J      | 23.3         | 63.2            | 3              |
| Downgradient                         | BY-AP-MW-13 | 04/04/2023  | 0            | 14.3          | <0.2                      | 24.6         | 0.0554        | 47.7         | 4.94            | 2.83           |
| Downgradient                         | BY-AP-MW-14 | 04/05/2023  | 0            | 47            | <0.2                      | 112          | 0.215         | 9.78         | 32.4            | 2.46           |
| Downgradient                         | BY-AP-MW-15 | 04/03/2023  | 0            | 91.5          | 0.228 J                   | 8.28         | <0.009135     | 6.76         | 99              | 4.8            |
| Downgradient                         | BY-AP-MW-16 | 04/05/2023  | --           | 21.8          | 0.212 J                   | 9.3          | 0.0263 J      | 11.4         | 131             | 2.25           |
| Downgradient                         | BY-AP-MW-2  | 04/03/2023  | 0            | 7.35          | <0.2                      | 1.77 J       | 0.0187 J      | 1.79         | 0.25            | 0.829          |
| Downgradient                         | BY-AP-MW-3  | 04/04/2023  | 0            | 9.66          | <0.2                      | 2.92         | 0.0187 J      | 1.29         | 4.13            | 0.984          |
| Downgradient                         | BY-AP-MW-4  | 04/04/2023  | 0            | 32.4          | <0.2                      | 2.33         | 0.0404 J      | 3.36         | 0.0235 J        | 1.93           |
| Downgradient                         | BY-AP-MW-5  | 04/04/2023  | 0            | 17.2          | <0.2                      | 43.9         | <0.009135     | 8.36         | 45.3            | 1.26           |
| Downgradient                         | BY-AP-MW-6  | 04/04/2023  | 0            | 7.81          | <0.2                      | 1.59 J       | <0.009135     | 1.94         | 0.0289 J        | 1.16           |
| Downgradient                         | BY-AP-MW-7  | 04/03/2023  | 0            | 59.4          | <0.2                      | 14.8         | <0.009135     | 3.52         | 8.37            | 1.81           |
| Downgradient                         | BY-AP-MW-8  | 04/03/2023  | 0            | 10.8          | <0.2                      | 32.1         | 0.0369 J      | 4.21         | 12.4            | 0.546          |
| Downgradient                         | BY-AP-MW-9  | 04/04/2023  | 0            | 18            | 0.297 J                   | 25.3         | <0.009135     | 32.4         | 91.2            | 1.77           |

Notes:

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3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

## Table 6. First Semi-Annual Monitoring Event

### Analytical Results Summary Plant Barry Ash Pond 04/03/2023 - 04/24/2023

| General Chemistry and MNA Parameters |             |             |                      |                      |             |             |              |                            |                                      |  |
|--------------------------------------|-------------|-------------|----------------------|----------------------|-------------|-------------|--------------|----------------------------|--------------------------------------|--|
| Hydraulic Location                   | Well        | Sample Date | Magnesium Total mg/L | Manganese Total mg/L | Sodium mg/L | Silica mg/L | Silicon mg/L | Carbon, Total Organic mg/L | Alkalinity Total as CaCO3 mg CaCO3/L | Carbonate Alkalinity as CaCO3 mg CaCO3/L |
| Upgradient                           | BY-UP-MW-1  | 04/12/2023  | 1.83                 | 0.135                | 1.85        | 6.93        | 3.24         | 1.04 J                     | 7.32                                 | NC                                       |
| Upgradient                           | BY-UP-MW-2  | 04/12/2023  | 2.21                 | 0.0216               | 2.11        | 8.54        | 3.99         | <1                         | 2.96                                 | NC                                       |
| Upgradient                           | BY-UP-MW-3  | 04/12/2023  | 1.85                 | 0.0189               | 2.91        | 8.56        | 4            | <1                         | 1                                    | NC                                       |
| Upgradient                           | BY-UP-MW-4  | 04/12/2023  | 1.94                 | 0.0159               | 2.61        | 9.05        | 4.23         | <1                         | 1.2                                  | NC                                       |
| Downgradient                         | BY-AP-MW-1  | 04/03/2023  | 11.6                 | 0.713                | 23.4        | 24          | 11.2         | 13.6                       | 266                                  | NC                                       |
| Downgradient                         | BY-AP-MW-10 | 04/03/2023  | 14.4                 | 1.18                 | 23.6        | 25          | 11.7         | 11.4                       | 234                                  | NC                                       |
| Downgradient                         | BY-AP-MW-11 | 04/04/2023  | 13.9                 | 0.6                  | 49.7        | 16.2        | 7.59         | 25.8                       | 230                                  | NC                                       |
| Downgradient                         | BY-AP-MW-12 | 04/04/2023  | 17.4                 | 0.661                | 39.8 J      | 16.5        | 7.7          | 20.5                       | 204                                  | NC                                       |
| Downgradient                         | BY-AP-MW-13 | 04/04/2023  | 4.88                 | 0.106                | 19.3        | 13.7        | 6.41         | 10.9                       | 140                                  | NC                                       |
| Downgradient                         | BY-AP-MW-14 | 04/05/2023  | 6                    | 0.285                | 76          | 20.1        | 9.39         | 17.2                       | 166                                  | NC                                       |
| Downgradient                         | BY-AP-MW-15 | 04/03/2023  | 5.38                 | 0.628                | 39          | 13          | 6.07         | 4.96                       | 67.3                                 | NC                                       |
| Downgradient                         | BY-AP-MW-16 | 04/05/2023  | 6.61                 | 0.582                | 25.7        | 25.3        | 11.8         | 9.27                       | 223                                  | NC                                       |
| Downgradient                         | BY-AP-MW-2  | 04/03/2023  | 1.16                 | 0.195                | 4.15        | 16.1        | 7.54         | <1                         | 10.2                                 | NC                                       |
| Downgradient                         | BY-AP-MW-3  | 04/04/2023  | 0.762                | 0.0279               | 5.42        | 15.3        | 7.16         | <1                         | 11.4                                 | NC                                       |
| Downgradient                         | BY-AP-MW-4  | 04/04/2023  | 2.82                 | 0.0219               | 12          | 14.7        | 6.89         | <1                         | 2.04                                 | NC                                       |
| Downgradient                         | BY-AP-MW-5  | 04/04/2023  | 2.76                 | 0.356                | 13.8        | 24.8        | 11.6         | 7.46                       | 87.9                                 | NC                                       |
| Downgradient                         | BY-AP-MW-6  | 04/04/2023  | 1.32                 | 0.00463              | 7.3         | 13.3        | 6.21         | <1                         | 15.8                                 | NC                                       |
| Downgradient                         | BY-AP-MW-7  | 04/03/2023  | 2.5                  | 0.102                | 65.6        | 12.1        | 5.67         | 1.56 J                     | 100                                  | NC                                       |
| Downgradient                         | BY-AP-MW-8  | 04/03/2023  | 1.54                 | 0.211                | 18.4        | 13.6        | 6.36         | 4.99                       | 25.1                                 | NC                                       |
| Downgradient                         | BY-AP-MW-9  | 04/04/2023  | 12                   | 1.78                 | 18.7        | 20.4        | 9.53         | 12.1                       | 195                                  | NC                                       |

**Notes:**

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

**Analytical Results Summary  
Plant Barry Ash Pond  
04/03/2023 - 04/24/2023**

| General Chemistry and MNA Parameters |             |             |   |
|--------------------------------------|-------------|-------------|---|
| Hydraulic Location                   | Well        | Sample Date | Bicarbonate Alkalinity as CaCO <sub>3</sub> mg CaCO <sub>3</sub> /L |
| Upgradient                           | BY-UP-MW-1  | 04/12/2023  | 7.32  |
| Upgradient                           | BY-UP-MW-2  | 04/12/2023  | 2.96  |
| Upgradient                           | BY-UP-MW-3  | 04/12/2023  | 1   |
| Upgradient                           | BY-UP-MW-4  | 04/12/2023  | 1.2   |
| Downgradient                         | BY-AP-MW-1  | 04/03/2023  | 266   |
| Downgradient                         | BY-AP-MW-10 | 04/03/2023  | 234   |
| Downgradient                         | BY-AP-MW-11 | 04/04/2023  | 230   |
| Downgradient                         | BY-AP-MW-12 | 04/04/2023  | 204   |
| Downgradient                         | BY-AP-MW-13 | 04/04/2023  | 140   |
| Downgradient                         | BY-AP-MW-14 | 04/05/2023  | 166   |
| Downgradient                         | BY-AP-MW-15 | 04/03/2023  | 67.3  |
| Downgradient                         | BY-AP-MW-16 | 04/05/2023  | 223   |
| Downgradient                         | BY-AP-MW-2  | 04/03/2023  | 10.2  |
| Downgradient                         | BY-AP-MW-3  | 04/04/2023  | 11.4  |
| Downgradient                         | BY-AP-MW-4  | 04/04/2023  | 2.04  |
| Downgradient                         | BY-AP-MW-5  | 04/04/2023  | 87.9  |
| Downgradient                         | BY-AP-MW-6  | 04/04/2023  | 15.8  |
| Downgradient                         | BY-AP-MW-7  | 04/03/2023  | 99.9  |
| Downgradient                         | BY-AP-MW-8  | 04/03/2023  | 25.1  |
| Downgradient                         | BY-AP-MW-9  | 04/04/2023  | 195   |

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3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

### Analytical Results Summary Plant Barry Ash Pond 04/03/2023 - 04/24/2023

| General Chemistry and MNA Parameters |              |             |              |               |                           |              |               |              |                 |                |
|--------------------------------------|--------------|-------------|--------------|---------------|---------------------------|--------------|---------------|--------------|-----------------|----------------|
| Hydraulic Location                   | Well         | Sample Date | Sulfide mg/L | Chloride mg/L | Nitrate Nitrite mg/L as N | Sulfate mg/L | Aluminum mg/L | Calcium mg/L | Iron Total mg/L | Potassium mg/L |
| Vert. Delineation                    | BY-AP-MW-10V | 04/03/2023  | 0            | 26.1          | 0.239 J                   | 13           | <0.009135     | 59.2         | 101             | 2.31           |
| Vert. Delineation                    | BY-AP-MW-12V | 04/04/2023  | 0            | 26.3          | 0.256 J                   | 85.5         | <0.009135     | 20.3         | 84.4            | 2.68           |
| Vert. Delineation                    | BY-AP-MW-13V | 04/04/2023  | 0            | 52.1          | <0.2                      | 29.5         | 0.012 J       | 14.4         | 54.7            | 7.22           |
| Vert. Delineation                    | BY-AP-MW-14V | 04/04/2023  | 0            | 174           | <0.2                      | 11.7         | 0.0188 J      | 5.34         | 20.8            | 2.65           |
| Vert. Delineation                    | BY-AP-MW-15V | 04/24/2023  | 0            | 192           | 0.253 J                   | 1.93 J       | 0.00946 J     | 9.13         | 43.1            | 3.16           |
| Vert. Delineation                    | BY-AP-MW-16V | 04/04/2023  | 0            | 55            | <0.2                      | 34           | 0.407         | 2.35         | 3.89            | 1.89           |
| Vert. Delineation                    | BY-AP-MW-17V | 04/04/2023  | 0            | 1540          | <0.2                      | 59           | 0.0392 J      | 83.2         | 0.452           | 17.1           |
| Vert. Delineation                    | BY-AP-MW-1V  | 04/04/2023  | 0            | 92.3          | <0.2                      | 19           | 0.0253 J      | 2.57         | 0.304           | 2.12           |
| Vert. Delineation                    | BY-AP-MW-20V | 04/24/2023  | 0            | 20.7          | <0.2                      | 8.99         | 0.0356 J      | 24.3         | 2.06            | 7.67           |
| Vert. Delineation                    | BY-AP-MW-23V | 04/04/2023  | 0            | 741           | <0.2                      | 32.9         | <0.009135     | 42.5         | 35.3            | 8.07           |
| Vert. Delineation                    | BY-AP-MW-25V | 04/03/2023  | 0            | 3.61          | <0.2                      | 2.28         | 0.0185 J      | 0.703        | 0.0467          | 0.786          |
| Vert. Delineation                    | BY-AP-MW-5V  | 04/04/2023  | 0            | 39.5          | <0.2                      | 4.84         | 0.0102 J      | 2.13         | 0.246           | 1.77           |
| Vert. Delineation                    | BY-AP-MW-7V  | 04/03/2023  | 0            | 85.8          | <0.2                      | 5.29         | 0.0394 J      | 1.43         | 1.18            | 1.02           |
| Vert. Delineation                    | BY-AP-MW-8V  | 04/03/2023  | 0            | 279           | <0.2                      | 21.7         | 0.127         | 8.95         | 12.9            | 3.24           |
| Horiz. Delineation                   | BY-AP-MW-17H | 04/04/2023  | 0            | 17.6          | <0.2                      | 17.2         | 0.103         | 10.4         | 63.9            | 1.54           |
| Horiz. Delineation                   | BY-AP-MW-18H | 04/05/2023  | 0            | 6.46          | <0.2                      | 67           | 0.0441 J      | 4.89         | 14              | 0.351 J        |
| Horiz. Delineation                   | BY-AP-MW-19H | 04/24/2023  | 0            | 15.2          | 0.344                     | 38.7         | 0.0117 J      | 28.5         | 70.2            | 1.41           |
| Horiz. Delineation                   | BY-AP-MW-20H | 04/24/2023  | 0            | 37.6          | 0.292 J                   | 63.6         | 0.0187 J      | 28.1         | 54.5            | 3.27           |
| Horiz. Delineation                   | BY-AP-MW-22H | 04/24/2023  | 0            | 63.7          | 0.312                     | 152          | 0.0195 J      | 14.3         | 67.7            | 1.98           |
| Horiz. Delineation                   | BY-AP-MW-23H | 04/04/2023  | 0            | 9.01          | <0.2                      | 15.2         | 0.0441 J      | 23.5         | 54.7            | 1.03           |

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6. NC = value not detected with alkalinity calculation



### Analytical Results Summary Plant Barry Ash Pond 04/03/2023 - 04/24/2023

| General Chemistry and MNA Parameters |              |             |                      |                      |             |             |              |                            |                                      |  |
|--------------------------------------|--------------|-------------|----------------------|----------------------|-------------|-------------|--------------|----------------------------|--------------------------------------|--|
| Hydraulic Location                   | Well         | Sample Date | Magnesium Total mg/L | Manganese Total mg/L | Sodium mg/L | Silica mg/L | Silicon mg/L | Carbon, Total Organic mg/L | Alkalinity Total as CaCO3 mg CaCO3/L | Carbonate Alkalinity as CaCO3 mg CaCO3/L |
| Vert. Delineation                    | BY-AP-MW-10V | 04/03/2023  | 12                   | 0.813                | 26.8        | 29.5        | 13.8         | 11.2                       | 271                                  | NC                                       |
| Vert. Delineation                    | BY-AP-MW-12V | 04/04/2023  | 14.2                 | 1.16                 | 43.1        | 14.6        | 6.82         | 14.6                       | 203                                  | NC                                       |
| Vert. Delineation                    | BY-AP-MW-13V | 04/04/2023  | 6.35                 | 0.766                | 62.7        | 14.7        | 6.85         | 17.3                       | 148                                  | NC                                       |
| Vert. Delineation                    | BY-AP-MW-14V | 04/04/2023  | 2.85                 | 0.281                | 169         | 14.3        | 6.66         | 4.24                       | 159                                  | NC                                       |
| Vert. Delineation                    | BY-AP-MW-15V | 04/24/2023  | 6.12                 | 1.16                 | 76.1        | 17.1        | 8.01         | <1                         | 30.9                                 | NC                                       |
| Vert. Delineation                    | BY-AP-MW-16V | 04/04/2023  | 2.06                 | 0.186                | 50.9        | 13.6        | 6.36         | <1                         | 17.6                                 | NC                                       |
| Vert. Delineation                    | BY-AP-MW-17V | 04/04/2023  | 72.5                 | 4.7                  | 755         | 11.5        | 5.39         | 1.54 J                     | 202                                  | NC                                       |
| Vert. Delineation                    | BY-AP-MW-1V  | 04/04/2023  | 1.5                  | 0.0802               | 78.6        | 13.1        | 6.1          | <1                         | 34.1                                 | NC                                       |
| Vert. Delineation                    | BY-AP-MW-20V | 04/24/2023  | 4.81                 | 0.304                | 24.4        | 8.26        | 3.86         | 3.38                       | 112                                  | NC                                       |
| Vert. Delineation                    | BY-AP-MW-23V | 04/04/2023  | 38.2                 | 1.14                 | 361         | 17          | 7.94         | 4.99                       | 135                                  | NC                                       |
| Vert. Delineation                    | BY-AP-MW-25V | 04/03/2023  | 0.399 J              | 0.00489              | 4.41        | 13.6        | 6.36         | <1                         | 8.08                                 | NC                                       |
| Vert. Delineation                    | BY-AP-MW-5V  | 04/04/2023  | 1.52                 | 0.00193              | 44.9        | 12.6        | 5.88         | <1                         | 54                                   | NC                                       |
| Vert. Delineation                    | BY-AP-MW-7V  | 04/03/2023  | 0.282 J              | 0.0191               | 120         | 12.8        | 6            | 1.25 J                     | 155                                  | 3.12                                     |
| Vert. Delineation                    | BY-AP-MW-8V  | 04/03/2023  | 5.17                 | 0.176                | 215         | 18          | 8.39         | 7.04                       | 149                                  | NC                                       |
| Horiz. Delineation                   | BY-AP-MW-17H | 04/04/2023  | 4.68                 | 0.282                | 16.3        | 17.1        | 7.99         | 4.5                        | 103                                  | NC                                       |
| Horiz. Delineation                   | BY-AP-MW-18H | 04/05/2023  | 1.46                 | 0.232                | 9.82        | 9.42        | 4.4          | 2.58                       | 15.1                                 | NC                                       |
| Horiz. Delineation                   | BY-AP-MW-19H | 04/24/2023  | 6.89                 | 1.48                 | 15.4        | 28.7        | 13.4         | 8.07                       | 165                                  | NC                                       |
| Horiz. Delineation                   | BY-AP-MW-20H | 04/24/2023  | 17.7                 | 0.475                | 91          | 16.9        | 7.9          | 25.2                       | 304                                  | NC                                       |
| Horiz. Delineation                   | BY-AP-MW-22H | 04/24/2023  | 13.3                 | 0.544                | 73.8        | 19.4        | 9.07         | 14.4                       | 189                                  | NC                                       |
| Horiz. Delineation                   | BY-AP-MW-23H | 04/04/2023  | 6.51                 | 0.879                | 17.3        | 33          | 15.4         | 4.16                       | 149                                  | NC                                       |

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

Analytical Results Summary  
Plant Barry Ash Pond  
04/03/2023 - 04/24/2023

| General Chemistry and MNA Parameters |              |             |   |
|--------------------------------------|--------------|-------------|---|
| Hydraulic Location                   | Well         | Sample Date | Bicarbonate Alkalinity as CaCO <sub>3</sub> mg CaCO <sub>3</sub> /L |
| Vert. Delineation                    | BY-AP-MW-10V | 04/03/2023  | 271   |
| Vert. Delineation                    | BY-AP-MW-12V | 04/04/2023  | 203   |
| Vert. Delineation                    | BY-AP-MW-13V | 04/04/2023  | 148   |
| Vert. Delineation                    | BY-AP-MW-14V | 04/04/2023  | 159   |
| Vert. Delineation                    | BY-AP-MW-15V | 04/24/2023  | 30.9  |
| Vert. Delineation                    | BY-AP-MW-16V | 04/04/2023  | 17.6  |
| Vert. Delineation                    | BY-AP-MW-17V | 04/04/2023  | 202   |
| Vert. Delineation                    | BY-AP-MW-1V  | 04/04/2023  | 34.1  |
| Vert. Delineation                    | BY-AP-MW-20V | 04/24/2023  | 112   |
| Vert. Delineation                    | BY-AP-MW-23V | 04/04/2023  | 135   |
| Vert. Delineation                    | BY-AP-MW-25V | 04/03/2023  | 8.08  |
| Vert. Delineation                    | BY-AP-MW-5V  | 04/04/2023  | 54  |
| Vert. Delineation                    | BY-AP-MW-7V  | 04/03/2023  | 152   |
| Vert. Delineation                    | BY-AP-MW-8V  | 04/03/2023  | 149   |
| Horiz. Delineation                   | BY-AP-MW-17H | 04/04/2023  | 103   |
| Horiz. Delineation                   | BY-AP-MW-18H | 04/05/2023  | 15.1  |
| Horiz. Delineation                   | BY-AP-MW-19H | 04/24/2023  | 165   |
| Horiz. Delineation                   | BY-AP-MW-20H | 04/24/2023  | 304   |
| Horiz. Delineation                   | BY-AP-MW-22H | 04/24/2023  | 189   |
| Horiz. Delineation                   | BY-AP-MW-23H | 04/04/2023  | 149   |

Notes:

- "J" indicates the result was detected above the MDL but below the PQL
- "<" indicates the result was not detected above the MDL and is considered a non-detect.
- U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- NC = value not detected with alkalinity calculation

## Table 6. First Semi-Annual Monitoring Event

**Analytical Results Summary  
Plant Barry Ash Pond  
04/03/2023 - 04/24/2023**

| General Chemistry and MNA Parameters |              |             |                 |                  |                              |                 |                  |                 |                    |                   |
|--------------------------------------|--------------|-------------|-----------------|------------------|------------------------------|-----------------|------------------|-----------------|--------------------|-------------------|
| Hydraulic Location                   | Well         | Sample Date | Sulfide<br>mg/L | Chloride<br>mg/L | Nitrate Nitrite<br>mg/L as N | Sulfate<br>mg/L | Aluminum<br>mg/L | Calcium<br>mg/L | Iron Total<br>mg/L | Potassium<br>mg/L |
| Horiz. Delineation                   | BY-AP-MW-24H | 04/03/2023  | 0               | 45.5             | 0.274 J                      | 94              | <0.009135        | 17.8            | 113                | 2.53              |
| Horiz. Delineation                   | BY-AP-MW-25H | 04/03/2023  | 0               | 5.52             | <0.2                         | 4.48            | 0.0114 J         | 1.01            | 0.0232 J           | 0.897             |

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

## Table 6. First Semi-Annual Monitoring Event

### Analytical Results Summary Plant Barry Ash Pond 04/03/2023 - 04/24/2023

| General Chemistry and MNA Parameters |              |             |                      |                      |             |             |              |                            |                                      |  |
|--------------------------------------|--------------|-------------|----------------------|----------------------|-------------|-------------|--------------|----------------------------|--------------------------------------|--|
| Hydraulic Location                   | Well         | Sample Date | Magnesium Total mg/L | Manganese Total mg/L | Sodium mg/L | Silica mg/L | Silicon mg/L | Carbon, Total Organic mg/L | Alkalinity Total as CaCO3 mg CaCO3/L | Carbonate Alkalinity as CaCO3 mg CaCO3/L |
| Horiz. Delineation                   | BY-AP-MW-24H | 04/03/2023  | 16.4                 | 0.208                | 65.7        | 23.3        | 10.9         | 25.2                       | 251                                  | NC                                       |
| Horiz. Delineation                   | BY-AP-MW-25H | 04/03/2023  | 0.748                | 0.00292              | 5.81        | 15.9        | 7.45         | <1                         | 5.52                                 | NC                                       |

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

## Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary  
Plant Barry Ash Pond  
04/03/2023 - 04/24/2023

| General Chemistry and MNA Parameters |              |             |   |
|--------------------------------------|--------------|-------------|---|
| Hydraulic Location                   | Well         | Sample Date | Bicarbonate Alkalinity as CaCO <sub>3</sub> mg CaCO <sub>3</sub> /L |
| Horiz. Delineation                   | BY-AP-MW-24H | 04/03/2023  | 251   |
| Horiz. Delineation                   | BY-AP-MW-25H | 04/03/2023  | 5.52  |

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

# Appendix A



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |            |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                       |       | BY-AP-MW-1                   |            |            |            |            |            |            |            |            |            |            |
|                       |       | 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 |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |            |            |            |            |
| Boron                 | mg/L  | 2.03                         | 2.2        | 1.61       | 1.55       | 1.59       | 1.84       | --         | 1.73       | 1.56       | 1.87       | --         |
| Calcium               | mg/L  | 46.5                         | 49         | 33.5       | 34.2       | 35.1       | 38.5       | --         | 35.1       | 32.4       | 40.5       | --         |
| Chloride              | mg/L  | 2.18                         | 9.01       | 21         | 21         | 21.4       | --         | 25         | 26         | 27         | 24         | --         |
| 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     |
| 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        |
| Sulfate               | mg/L  | 0.31 J                       | 0.335 J    | 0.556 J    | <0.3       | <0.3       | --         | 5          | 6          | 5          | 4.7 J      | --         |
| TDS                   | mg/L  | 426                          | 442        | 461        | 456        | 444        | 422        | --         | 442        | 433        | 456        | --         |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |            |            |            |            |
| Antimony              | mg/L  | <0.0006                      | <0.0006    | <0.0006    | <0.0006    | <0.0006    | 0.000687 J | --         | <0.0006    | <0.0006    | --         | <0.0006    |
| Arsenic               | mg/L  | 0.076                        | 0.0973     | 0.0605     | 0.0687     | 0.0701     | 0.0669     | --         | 0.0672     | 0.0527     | --         | 0.07       |
| Barium                | mg/L  | 0.219                        | 0.201      | 0.274      | 0.296      | 0.281      | 0.211      | --         | 0.29       | 0.25       | --         | 0.289      |
| Beryllium             | mg/L  | <0.0006                      | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | --         | <0.0006    | <0.0006    | --         | <0.0006    |
| Cadmium               | mg/L  | <0.0002                      | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | --         | <0.0002    | <0.0002    | --         | <0.0003    |
| 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  |
| Cobalt                | mg/L  | <0.002                       | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     | <0.002     | --         | <0.002     |
| Combined Radium 226 + | pCi/L | 1 U                          | 3.0268     | 1.59       | 2.19       | --         | 1.23       | --         | 1.62       | 1.24       | --         | 1.96 U     |
| 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     |
| Lead                  | mg/L  | <0.001                       | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | --         | <0.001     | <0.001     | --         | <0.001     |
| Lithium               | mg/L  | <0.1                         | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | --         | <0.01      | <0.01      | --         | <0.01      |
| Mercury               | mg/L  | <0.00025                     | <0.00025   | <0.00025   | <0.00025   | <0.00025   | <0.00025   | --         | <0.00025   | <0.00025   | --         | <0.00025   |
| Molybdenum            | mg/L  | <0.002                       | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     | <0.002     | --         | <0.002     |
| Selenium              | mg/L  | <0.002                       | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     | <0.002     | --         | <0.002     |
| Thallium              | mg/L  | <0.0002                      | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | --         | <0.0002    | <0.0002    | --         | <0.0002    |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |            |             |            |            |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|-------------|------------|------------|
|                       |       | BY-AP-MW-1                   |            |            |            |            |            |            |            |             |            |            |
|                       |       | 05/01/2018                   | 11/28/2018 | 05/29/2019 | 10/01/2019 | 03/30/2020 | 09/01/2020 | 05/12/2021 | 05/18/2021 | 11/01/2021  | 05/24/2022 | 11/02/2022 |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |            |             |            |            |
| Boron                 | mg/L  | 1.81                         | 1.8        | 1.75       | 1.91       | 1.77       | 2.11       | --         | 1.99       | 2.02        | 2.07       | 1.95       |
| Calcium               | mg/L  | 39.7                         | 35.8       | 33.4       | 36.7       | 33.7       | 40.5       | --         | 39.5       | 38.4        | 44.3       | 38.9       |
| Chloride              | mg/L  | 25                           | 26         | 27.6       | 24.6       | 24.9       | 25.7       | --         | 25.1       | 31.3        | 27.6       | 25.1       |
| Fluoride              | mg/L  | 0.05 J                       | <0.032     | 0.0858 J   | 0.0744 J   | 0.0726 J   | 0.194      | --         | 0.0884 J   | 0.181       | 0.0801 J   | 0.0665 J   |
| pH_Field              | SU    | 5.83                         | 5.82       | 5.82       | 5.47       | 5.79       | 5.89       | --         | 5.86       | 6.01        | 5.44       | 5.56       |
| Sulfate               | mg/L  | <1.4                         | 4.1 J      | 5.75       | 7.82       | 28.4       | 23.1       | --         | 16.5       | 11.6        | 21         | 12.1       |
| TDS                   | mg/L  | 416                          | 408        | 403        | 430        | 419        | 454        | --         | 450        | 451         | 409        | 404        |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |            |             |            |            |
| Antimony              | mg/L  | <0.0006                      | <0.0008    | <0.0008    | <0.0008    | <0.0008    | <0.0008    | --         | <0.000507  | <0.000508   | <0.000508  | <0.000508  |
| Arsenic               | mg/L  | 0.0777                       | 0.0677     | 0.0555     | 0.0635     | 0.0557     | 0.0811     | --         | 0.0687     | 0.0694      | 0.0767     | 0.0682     |
| Barium                | mg/L  | 0.28                         | 0.271      | 0.29       | 0.293      | 0.279      | 0.33       | --         | 0.339      | 0.313       | 0.328      | 0.279      |
| Beryllium             | mg/L  | <0.0006                      | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | --         | <0.000406  | <0.000406   | <0.000406  | <0.000406  |
| Cadmium               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | --         | <6.8e-005  | <6.8e-005   | <6.8e-005  | <6.8e-005  |
| Chromium              | mg/L  | 0.00435 J                    | 0.0036 J   | 0.00223 J  | 0.00236 J  | 0.00415 J  | 0.00242 J  | --         | 0.00294    | 0.00246     | 0.00238    | 0.00314    |
| Cobalt                | mg/L  | <0.002                       | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | 0.000996   | 0.000928    | 0.000914   | 0.00102    |
| Combined Radium 226 + | pCi/L | 1.6                          | 1.48       | 2.25       | 2.84       | 2.31       | 1.3        | 0.639 U    | 2.99       | 2.22        | 2.12       | 1.96       |
| Fluoride              | mg/L  | 0.05 J                       | <0.032     | 0.0858 J   | 0.0744 J   | 0.0726 J   | 0.194      | --         | 0.0884 J   | 0.181       | 0.0801 J   | 0.0665 J   |
| Lead                  | mg/L  | <0.001                       | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | --         | <6.8e-005  | <6.8e-005   | <6.8e-005  | <6.8e-005  |
| Lithium               | mg/L  | <0.01                        | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | --         | <0.007105  | <0.007105   | <0.007105  | <0.007105  |
| Mercury               | mg/L  | <0.00025                     | <0.00025   | <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     | <0.002     | <0.002     | --         | 0.000106 J | 7.75e-005 J | <0.000102  | <0.000102  |
| Selenium              | mg/L  | <0.002                       | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.000507  | <0.000508   | <0.000508  | <0.000508  |
| Thallium              | mg/L  | <0.0002                      | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | --         | <6.8e-005  | <6.8e-005   | <6.8e-005  | <6.8e-005  |

**Notes:**

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





**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |            |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                       |       | BY-AP-MW-1                   | BY-UP-MW-1 |            |            |            |            |            |            |            |            |            |
|                       |       | 04/03/2023                   | 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 |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |            |            |            |            |
| Boron                 | mg/L  | 1.97                         | 0.0212 J   | <0.02      | <0.02      | <0.02      | <0.02      | <0.02      | --         | <0.02      | <0.02      | <0.02      |
| Calcium               | mg/L  | 36.9                         | 1.28       | 1.19       | 1.19       | 1.11       | 1.04       | 1.19       | --         | 1.05       | 0.978      | 1.14       |
| Chloride              | mg/L  | 23.7                         | 3.59       | 2.89       | 3.12       | 3.91       | 3.9        | --         | 3.5        | 3.5        | 3.1        | 4          |
| Fluoride              | mg/L  | 0.0717 J                     | 0.03 J     | 0.023 J    | 0.062 J    | 0.053 J    | 0.042 J    | --         | <0.032     | 0.04 J     | 0.1        | 0.04 J     |
| pH_Field              | SU    | 5.78                         | 4.62       | 4.74       | 4.65       | 4.64       | 4.74       | 4.54       | 4.67       | 4.79       | 4.76       | 4.81       |
| Sulfate               | mg/L  | 34.2                         | 8.59       | 8.27       | 8.66       | 9.74       | 10.2       | --         | 8.3        | 6.6        | 7.6        | 8.4        |
| TDS                   | mg/L  | 400                          | 26.7       | --         | 32.7       | 33.3       | 27.3       | 32         | --         | 31.3       | 35.3       | 36.7       |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |            |            |            |            |
| Antimony              | mg/L  | <0.00071                     | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | 0.000925 J | --         | <0.0006    | <0.0006    | --         |
| Arsenic               | mg/L  | 0.068                        | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | --         | <0.001     | <0.001     | --         |
| Barium                | mg/L  | 0.222                        | 0.117      | 0.099      | 0.107      | 0.106      | 0.102      | 0.0944     | --         | 0.0868     | 0.0799     | --         |
| Beryllium             | mg/L  | <0.000406                    | <0.0006    | <0.0006    | 0.000612 J | <0.0006    | <0.0006    | <0.0006    | --         | 0.00069 J  | <0.0006    | --         |
| Cadmium               | mg/L  | <6.8e-005                    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | --         | <0.0002    | <0.0002    | --         |
| Chromium              | mg/L  | 0.00638                      | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     | <0.002     | --         |
| Cobalt                | mg/L  | 0.00133                      | 0.0035 J   | 0.0038 J   | 0.00427 J  | 0.00348 J  | 0.00338 J  | 0.00308 J  | --         | 0.00314 J  | 0.0036 J   | --         |
| Combined Radium 226 + | pCi/L | 1.84                         | 2.8971 U   | 1 U        | 0.841      | 1.74       | 1.47       | 0.952      | --         | 0.768      | 1.04       | --         |
| Fluoride              | mg/L  | 0.0717 J                     | 0.03 J     | 0.023 J    | 0.062 J    | 0.053 J    | 0.042 J    | --         | <0.032     | 0.04 J     | 0.1        | 0.04 J     |
| Lead                  | mg/L  | <6.8e-005                    | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | --         | <0.001     | <0.001     | --         |
| Lithium               | mg/L  | <0.007105                    | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | --         | <0.01      | <0.01      | --         |
| Mercury               | mg/L  | <0.0003                      | <0.00025   | <0.00025   | <0.00025   | <0.00025   | <0.00025   | <0.00025   | --         | <0.00025   | <0.00025   | --         |
| Molybdenum            | mg/L  | <0.005075                    | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     | <0.002     | --         |
| Selenium              | mg/L  | <0.000508                    | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     | <0.002     | --         |
| Thallium              | mg/L  | <6.8e-005                    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | --         | <0.0002    | <0.0002    | --         |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |             |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|-------------|------------|------------|------------|
|                       |       | BY-UP-MW-1                   |            |            |            |            |            |            |             |            |            |            |
|                       |       | 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 | 05/31/2022 | 11/01/2022 |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |             |            |            |            |
| Boron                 | mg/L  | --                           | 0.0362 J   | 0.11       | 0.188      | 0.097 J    | 0.157      | 0.0999 J   | 0.0841 J    | 0.0708 J   | 0.0564 J   | 0.0501 J   |
| Calcium               | mg/L  | --                           | 1.64       | 2.01       | 1.85       | 1.55       | 1.96       | 1.43       | 1.34        | 1.17       | 1.13       | 1.01       |
| Chloride              | mg/L  | --                           | 9.9        | 4.7        | 5.48       | 3.65       | 3.17       | 2.92       | 2.18        | 2.37       | 1.93       | 2.37       |
| Fluoride              | mg/L  | <0.032                       | 0.04 J     | <0.032     | 0.0502 J   | <0.05      | <0.06      | <0.06      | <0.06       | <0.06      | <0.06      | <0.06      |
| pH_Field              | SU    | 4.79                         | 4.62       | 4.73       | 4.65       | 4.57       | 4.64       | 4.65       | 4.74        | 4.67       | 3.89       | 4.6        |
| Sulfate               | mg/L  | --                           | 5.9        | 22         | 23.3       | 17.5       | 24.3       | 16.5       | 16.3        | 15.5       | 12.8       | 11.3       |
| TDS                   | mg/L  | --                           | 34         | 50.7       | 58         | 46         | 53.3       | 42         | 40.7        | 40         | 32         | 33.3       |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |             |            |            |            |
| Antimony              | mg/L  | <0.0006                      | <0.0006    | <0.0008    | <0.0008    | <0.0008    | <0.0008    | <0.0008    | <0.000507   | <0.000508  | <0.000508  | <0.000508  |
| Arsenic               | mg/L  | <0.001                       | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | 0.000336    | 0.000346   | 0.000168 J | 0.000345   |
| Barium                | mg/L  | 0.0884                       | 0.137      | 0.157      | 0.166      | 0.129      | 0.176      | 0.124      | 0.123       | 0.103      | 0.101      | 0.0804     |
| Beryllium             | mg/L  | <0.0006                      | <0.0006    | 0.000856 J | <0.0006    | <0.0006    | <0.0006    | <0.0006    | 0.000694 J  | <0.000406  | <0.000406  | <0.000406  |
| Cadmium               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <6.8e-005   | <6.8e-005  | <6.8e-005  | <6.8e-005  |
| Chromium              | mg/L  | <0.002                       | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | 0.000296 J  | 0.000301 J | 0.000334 J | <0.000203  |
| Cobalt                | mg/L  | 0.00586 J                    | 0.00702 J  | 0.0157     | 0.0109     | 0.0129     | 0.0123     | 0.00697    | 0.00611     | 0.00517    | 0.00484    | 0.00406    |
| Combined Radium 226 + | pCi/L | 0.513 U                      | 0.916      | 1.37       | 1.57       | 0.905      | 1.77       | 1.77       | 0.639 U     | 1.77       | 1.34       | 1.11       |
| Fluoride              | mg/L  | <0.032                       | 0.04 J     | <0.032     | 0.0502 J   | <0.05      | <0.06      | <0.06      | <0.06       | <0.06      | <0.06      | <0.06      |
| Lead                  | mg/L  | <0.001                       | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | 9.79e-005 J | 0.000115 J | <6.8e-005  | <6.8e-005  |
| Lithium               | mg/L  | <0.01                        | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.007105   | <0.007105  | <0.007105  | <0.007105  |
| Mercury               | mg/L  | <0.00025                     | <0.00025   | <0.00025   | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003     | <0.0003    | <0.0003    | <0.0003    |
| Molybdenum            | mg/L  | <0.002                       | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <6.8e-005   | <6.8e-005  | <0.000102  | <0.000102  |
| Selenium              | mg/L  | <0.002                       | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.000507   | <0.000508  | <0.000508  | <0.000508  |
| Thallium              | mg/L  | <0.0002                      | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <6.8e-005   | <6.8e-005  | <6.8e-005  | <6.8e-005  |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |            |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                       |       | BY-UP-MW-1                   | BY-AP-MW-2 |            |            |            |            |            |            |            |            |            |
|                       |       | 04/12/2023                   | 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 |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |            |            |            |            |
| Boron                 | mg/L  | 0.0469 J                     | <0.02      | <0.02      | <0.02      | <0.02      | <0.02      | <0.02      | --         | <0.02      | <0.02      | <0.02      |
| Calcium               | mg/L  | 1.03                         | 3.86       | 3.22       | 3.17       | 3.07       | 2.91       | 2.94       | --         | 2.82       | 2.79       | 2.88       |
| Chloride              | mg/L  | 2.31                         | 6.08       | 6.2        | 6.2        | 6.51       | 6.85       | --         | 7.2        | 8.3        | 8.5        | 8.6        |
| Fluoride              | mg/L  | <0.06                        | 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    |
| pH_Field              | SU    | 4.77                         | 6.08       | 5.92       | 5.9        | 5.87       | 5.82       | 5.87       | 5.85       | 5.61       | 5.82       | 5.61       |
| Sulfate               | mg/L  | 11.8                         | 3.3        | 2.68       | 1.1        | <0.3       | <0.3       | --         | 5          | <1.4       | 5          | <1.4       |
| TDS                   | mg/L  | --                           | 42         | 51.3       | 46.7       | 32.7       | 37.3       | 47.3       | --         | 44         | 48         | 40.7       |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |            |            |            |            |
| Antimony              | mg/L  | <0.00071                     | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | 0.000739 J | --         | <0.0006    | <0.0006    | --         |
| Arsenic               | mg/L  | 0.000119 J                   | 0.00263 J  | 0.00247 J  | 0.0023 J   | 0.00237 J  | 0.00241 J  | 0.00185 J  | --         | 0.00194 J  | 0.00175 J  | --         |
| Barium                | mg/L  | 0.0801                       | 0.0285     | 0.0268     | 0.0248     | 0.026      | 0.0247     | 0.0228     | --         | 0.0257     | 0.0219     | --         |
| Beryllium             | mg/L  | <0.000406                    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | --         | <0.0006    | <0.0006    | --         |
| Cadmium               | mg/L  | <6.8e-005                    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | --         | <0.0002    | <0.0002    | --         |
| Chromium              | mg/L  | <0.000203                    | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     | <0.002     | --         |
| Cobalt                | mg/L  | 0.00398                      | 0.00842 J  | 0.008 J    | 0.00796 J  | 0.00752 J  | 0.00778 J  | 0.00647 J  | --         | 0.00686 J  | 0.00694 J  | --         |
| Combined Radium 226 + | pCi/L | 1.03 U                       | 1 U        | 1 U        | 0.121 U    | 0.348 U    | 0.48       | 0.00333 U  | --         | 0.4 U      | 0.083 U    | --         |
| Fluoride              | mg/L  | <0.06                        | 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    |
| Lead                  | mg/L  | 7.57e-005 J                  | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | --         | <0.001     | <0.001     | --         |
| Lithium               | mg/L  | <0.007105                    | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | --         | <0.01      | <0.01      | --         |
| Mercury               | mg/L  | <0.0003                      | <0.00025   | <0.00025   | <0.00025   | <0.00025   | <0.00025   | <0.00025   | --         | <0.00025   | <0.00025   | --         |
| Molybdenum            | mg/L  | <0.005075                    | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     | <0.002     | --         |
| Selenium              | mg/L  | <0.000508                    | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     | <0.002     | --         |
| Thallium              | mg/L  | <6.8e-005                    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | --         | <0.0002    | <0.0002    | --         |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |            |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                       |       | BY-AP-MW-2                   |            |            |            |            |            |            |            |            |            |            |
|                       |       | 01/24/2018                   | 05/01/2018 | 11/27/2018 | 05/29/2019 | 10/01/2019 | 03/31/2020 | 08/31/2020 | 05/11/2021 | 05/18/2021 | 11/01/2021 | 05/24/2022 |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |            |            |            |            |
| Boron                 | mg/L  | --                           | <0.02      | <0.02      | <0.03      | <0.03      | <0.03      | <0.03      | --         | <0.03      | <0.03      | <0.03      |
| Calcium               | mg/L  | --                           | 2.82       | 2.8        | 2.82       | 2.94       | 2.95       | 3          | --         | 3.17       | 3.13       | 2.45       |
| Chloride              | mg/L  | --                           | 7.6        | 8.8        | 8.31       | 8.19       | 8.48       | 8.3        | --         | 7.89       | 8.16       | 9.21       |
| Fluoride              | mg/L  | <0.032                       | <0.032     | <0.032     | <0.05      | <0.05      | <0.06      | <0.06      | --         | <0.06      | <0.06      | <0.06      |
| pH_Field              | SU    | 5.83                         | 5.8        | 5.71       | 5.7        | 4.97       | 5.71       | 5.57       | --         | 5.83       | 5.2        | 4.78       |
| Sulfate               | mg/L  | --                           | <1.4       | <1.4       | 0.885 J    | <0.5       | 1.69       | 0.576 J    | --         | <0.5       | 1.56       | 0.615 J    |
| TDS                   | mg/L  | --                           | 42.7       | 48         | 47.3       | 44.7       | 42         | 45.3       | --         | 48.7       | 52         | 40.7       |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |            |            |            |            |
| Antimony              | mg/L  | <0.0006                      | <0.0006    | <0.0008    | <0.0008    | <0.0008    | <0.0008    | <0.0008    | --         | <0.000507  | <0.000508  | <0.000508  |
| Arsenic               | mg/L  | 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    | 0.00115    |
| Barium                | mg/L  | 0.0229                       | 0.0279     | 0.0249     | 0.0232     | 0.0241     | 0.0264     | 0.0275     | --         | 0.0259     | 0.0247     | 0.0248     |
| Beryllium             | mg/L  | <0.0006                      | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | --         | <0.000406  | <0.000406  | <0.000406  |
| Cadmium               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | --         | <6.8e-005  | <6.8e-005  | <6.8e-005  |
| Chromium              | mg/L  | <0.002                       | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | 0.000394 J | 0.000288 J | <0.000203  |
| Cobalt                | mg/L  | 0.00592 J                    | 0.00693 J  | 0.0066     | 0.00745    | 0.00696    | 0.00716    | 0.00751    | --         | 0.00746    | 0.00706    | 0.00621    |
| Combined Radium 226 + | pCi/L | 0.404 U                      | 0.457      | 0.359 U    | 1.18       | 0.284 U    | 0.699      | 0.0265 U   | 0.945 U    | 0.72 U     | 0.523 U    | 0.732 U    |
| Fluoride              | mg/L  | <0.032                       | <0.032     | <0.032     | <0.05      | <0.05      | <0.06      | <0.06      | --         | <0.06      | <0.06      | <0.06      |
| Lead                  | mg/L  | <0.001                       | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | --         | <6.8e-005  | <6.8e-005  | <6.8e-005  |
| Lithium               | mg/L  | <0.01                        | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | --         | <0.007105  | <0.007105  | <0.007105  |
| Mercury               | mg/L  | <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     | --         | <6.8e-005  | <6.8e-005  | <0.000102  |
| Selenium              | mg/L  | <0.002                       | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.000507  | <0.000508  | <0.000508  |
| Thallium              | mg/L  | <0.0002                      | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | --         | <6.8e-005  | <6.8e-005  | <6.8e-005  |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |            |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                       |       | BY-AP-MW-2                   |            | BY-UP-MW-2 |            |            |            |            |            |            |            |            |
|                       |       | 11/02/2022                   | 04/03/2023 | 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 |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |            |            |            |            |
| Boron                 | mg/L  | <0.03                        | <0.03      | 0.0252 J   | <0.02      | 0.0202 J   | <0.02      | <0.02      | <0.02      | --         | <0.02      | <0.02      |
| Calcium               | mg/L  | 2.03                         | 1.79       | 1.11       | 1.09       | 1.16       | 1.08       | 1.03       | 1.23       | --         | 1.28       | 1.25       |
| Chloride              | mg/L  | 8.49                         | 7.35       | 3.99       | 4.08       | 4.28       | 4.26       | 4.26       | --         | 4.1        | 5          | 3.9        |
| Fluoride              | mg/L  | 0.0711 J                     | <0.06      | 0.02 J     | 0.021 J    | 0.06 J     | 0.05 J     | 0.04 J     | --         | <0.032     | 0.04 J     | 0.04 J     |
| pH_Field              | SU    | 5.68                         | 4.88       | 4.79       | 4.84       | 4.81       | 4.76       | 4.84       | 4.6        | 4.71       | 4.8        | 4.72       |
| Sulfate               | mg/L  | 1.17 J                       | 1.77 J     | 7.2        | 7.22       | 7.92       | 8.17       | 7.99       | --         | 6.1        | 5          | 5.3        |
| TDS                   | mg/L  | 41.3                         | 40.7       | 30.7       | --         | 35.3       | 27.3       | --         | 32.7       | --         | 30.7       | 34.7       |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |            |            |            |            |
| Antimony              | mg/L  | <0.000508                    | <0.00071   | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | 0.000898 J | --         | <0.0006    | <0.0006    |
| Arsenic               | mg/L  | 0.00133                      | 0.00151    | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | --         | <0.001     | <0.001     |
| Barium                | mg/L  | 0.0201                       | 0.018      | 0.111      | 0.0875     | 0.0979     | 0.108      | 0.103      | 0.109      | --         | 0.125      | 0.108      |
| Beryllium             | mg/L  | <0.000406                    | <0.000406  | <0.0006    | <0.0006    | 0.00093 J  | <0.0006    | <0.0006    | <0.0006    | --         | <0.0006    | <0.0006    |
| Cadmium               | mg/L  | <6.8e-005                    | <6.8e-005  | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | --         | <0.0002    | <0.0002    |
| Chromium              | mg/L  | <0.000203                    | 0.000209 J | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     | <0.002     |
| Cobalt                | mg/L  | 0.00463                      | 0.0042     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     | <0.002     |
| Combined Radium 226 + | pCi/L | 0.366 U                      | 0.24 U     | 1 U        | 1 U        | 0.652      | 0.411 U    | 1          | 0.398 U    | --         | 0.66       | 0.639      |
| Fluoride              | mg/L  | 0.0711 J                     | <0.06      | 0.02 J     | 0.021 J    | 0.06 J     | 0.05 J     | 0.04 J     | --         | <0.032     | 0.04 J     | 0.04 J     |
| Lead                  | mg/L  | <6.8e-005                    | <6.8e-005  | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | --         | <0.001     | <0.001     |
| Lithium               | mg/L  | <0.007105                    | <0.007105  | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | --         | <0.01      | <0.01      |
| Mercury               | mg/L  | <0.0003                      | <0.0003    | <0.00025   | <0.00025   | <0.00025   | <0.00025   | <0.00025   | <0.00025   | --         | <0.00025   | <0.00025   |
| Molybdenum            | mg/L  | <0.000102                    | <0.005075  | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     | <0.002     |
| Selenium              | mg/L  | <0.000508                    | <0.000508  | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     | <0.002     |
| Thallium              | mg/L  | <6.8e-005                    | <6.8e-005  | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | --         | <0.0002    | <0.0002    |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |            |            |            |             |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|
|                       |       | BY-UP-MW-2                   |            |            |            |            |            |            |            |            |            |             |
|                       |       | 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 | 05/31/2022  |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |            |            |            |             |
| Boron                 | mg/L  | <0.02                        | --         | <0.02      | 0.0207 J   | <0.03      | <0.03      | <0.03      | <0.03      | <0.03      | <0.03      | <0.03       |
| Calcium               | mg/L  | 1.6                          | --         | 1.58       | 1.49       | 1.59       | 1.7        | 1.43       | 1.5        | 1.39       | 1.32       | 1.26        |
| Chloride              | mg/L  | 4.3                          | --         | 3.7        | 3.2        | 2.93       | 2.75       | 2.72       | 2.32       | 2.16       | 2.08       | 2.17        |
| Fluoride              | mg/L  | 0.043 J                      | 0.04 J     | 0.04 J     | <0.032     | <0.05      | <0.05      | <0.06      | <0.06      | <0.06      | <0.06      | <0.06       |
| pH_Field              | SU    | 4.71                         | 4.67       | 4.61       | 4.72       | 4.58       | 4.43       | 4.6        | 4.67       | 4.29       | 4.6        | 3.31        |
| Sulfate               | mg/L  | 4.9 J                        | --         | 4.2 J      | 3.7 J      | 5.94       | 6.04       | 6.83       | 6.08       | 7.92       | 7.48       | 8.09        |
| TDS                   | mg/L  | 39.3                         | --         | 42         | 31.3       | 40         | 41.3       | 40         | 40.7       | 35.3       | 36         | 30.7        |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |            |            |            |             |
| Antimony              | mg/L  | --                           | <0.0006    | <0.0006    | <0.0008    | <0.0008    | <0.0008    | <0.0008    | <0.0008    | <0.000507  | <0.000508  | <0.000508   |
| Arsenic               | mg/L  | --                           | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | 0.000136 J | 0.000122 J | 8.79e-005 J |
| Barium                | mg/L  | --                           | 0.153      | 0.167      | 0.158      | 0.172      | 0.183      | 0.171      | 0.172      | 0.165      | 0.145      | 0.153       |
| Beryllium             | mg/L  | --                           | <0.0006    | <0.0006    | 0.000801 J | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.000406  | <0.000406  | 0.000413 J  |
| Cadmium               | mg/L  | --                           | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <6.8e-005  | <6.8e-005  | <6.8e-005   |
| Chromium              | mg/L  | --                           | 0.00596 J  | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | 0.00136    | 0.00135    | 0.0012      |
| Cobalt                | mg/L  | --                           | 0.0021 J   | <0.002     | 0.00209 J  | 0.00248 J  | 0.00244 J  | 0.00224 J  | 0.00219 J  | 0.00194    | 0.00192    | 0.00187     |
| Combined Radium 226 + | pCi/L | --                           | 0.669 U    | 1.06       | 0.636      | 0.579 U    | 1.33       | 0.814      | 0.653 U    | 0.945 U    | 1.85       | 1.38        |
| Fluoride              | mg/L  | 0.043 J                      | 0.04 J     | 0.04 J     | <0.032     | <0.05      | <0.05      | <0.06      | <0.06      | <0.06      | <0.06      | <0.06       |
| Lead                  | mg/L  | --                           | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | 0.000118 J | 0.0001 J   | <6.8e-005   |
| Lithium               | mg/L  | --                           | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.007105  | <0.007105  | <0.007105   |
| Mercury               | mg/L  | --                           | <0.00025   | <0.00025   | <0.00025   | <0.0003    | <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     | <6.8e-005  | <6.8e-005  | <0.000102   |
| Selenium              | mg/L  | --                           | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | 0.000602 J | <0.000508  | 0.000575 J  |
| Thallium              | mg/L  | --                           | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <6.8e-005  | <6.8e-005  | <6.8e-005   |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |            |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                       |       | BY-UP-MW-2                   |            | BY-AP-MW-3 |            |            |            |            |            |            |            |            |
|                       |       | 11/01/2022                   | 04/12/2023 | 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 |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |            |            |            |            |
| Boron                 | mg/L  | <0.03                        | <0.03      | <0.02      | <0.02      | <0.02      | <0.02      | <0.02      | <0.02      | --         | <0.02      | <0.02      |
| Calcium               | mg/L  | 1.16                         | 1.17       | 1.11       | 1.01       | 1.06       | 0.978      | 0.906      | 1.04       | --         | 0.969      | 0.902      |
| Chloride              | mg/L  | 2.22                         | 2.25       | 8.04       | 7.6        | 7.7        | 7.7        | 7.73       | --         | 7.2        | 8.6        | 8.3        |
| Fluoride              | mg/L  | <0.06                        | <0.06      | 0.01 J     | 0.014 J    | 0.049 J    | 0.034 J    | 0.023 J    | --         | <0.032     | 0.1        | 0.1        |
| pH_Field              | SU    | 4.42                         | 4.67       | 5.14       | 5.06       | 5.13       | 5.11       | 5.05       | 5.14       | 5.13       | 4.85       | 5.15       |
| Sulfate               | mg/L  | 7.11                         | 8.54       | 0.79 J     | 0.674 J    | 1          | 0.702 J    | 0.739 J    | --         | 5          | <1.4       | 5          |
| TDS                   | mg/L  | 36                           | 27.3       | 27.3       | 33.3       | 44         | 29.3       | 29.3       | 36.7       | --         | 28         | 36.7       |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |            |            |            |            |
| Antimony              | mg/L  | <0.000508                    | <0.00071   | <0.0006    | <0.0006    | 0.000606 J | <0.0006    | <0.0006    | 0.000637 J | --         | <0.0006    | <0.0006    |
| Arsenic               | mg/L  | <8.1e-005                    | <0.000112  | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | --         | <0.001     | <0.001     |
| Barium                | mg/L  | 0.145                        | 0.136      | 0.0306     | 0.0292     | 0.0318     | 0.0324     | 0.0313     | 0.0306     | --         | 0.0332     | 0.0275     |
| Beryllium             | mg/L  | 0.000429 J                   | 0.000416 J | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | --         | <0.0006    | <0.0006    |
| Cadmium               | mg/L  | <6.8e-005                    | <6.8e-005  | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | --         | <0.0002    | <0.0002    |
| Chromium              | mg/L  | 0.00209                      | 0.000946 J | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     | <0.002     |
| Cobalt                | mg/L  | 0.00173                      | 0.00157    | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     | <0.002     |
| Combined Radium 226 + | pCi/L | 1                            | 1.07       | 1 U        | 1 U        | 0.455      | 0.329 U    | 0.536      | 0.496      | --         | 0.149 U    | 0.191 U    |
| Fluoride              | mg/L  | <0.06                        | <0.06      | 0.01 J     | 0.014 J    | 0.049 J    | 0.034 J    | 0.023 J    | --         | <0.032     | 0.1        | 0.1        |
| Lead                  | mg/L  | <6.8e-005                    | 0.00014 J  | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | --         | <0.001     | <0.001     |
| Lithium               | mg/L  | <0.007105                    | <0.007105  | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | --         | <0.01      | <0.01      |
| Mercury               | mg/L  | <0.0003                      | <0.0003    | <0.00025   | <0.00025   | <0.00025   | <0.00025   | <0.00025   | <0.00025   | --         | <0.00025   | <0.00025   |
| Molybdenum            | mg/L  | <0.000102                    | <0.005075  | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     | <0.002     |
| Selenium              | mg/L  | 0.000558 J                   | 0.000702 J | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     | <0.002     |
| Thallium              | mg/L  | <6.8e-005                    | <6.8e-005  | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | --         | <0.0002    | <0.0002    |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |            |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                       |       | BY-AP-MW-3                   |            |            |            |            |            |            |            |            |            |            |
|                       |       | 09/12/2017                   | 01/24/2018 | 05/01/2018 | 11/27/2018 | 05/29/2019 | 10/01/2019 | 03/31/2020 | 09/01/2020 | 05/11/2021 | 05/18/2021 | 11/01/2021 |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |            |            |            |            |
| Boron                 | mg/L  | <0.02                        | --         | <0.02      | <0.02      | <0.03      | <0.03      | <0.03      | <0.03      | --         | <0.03      | <0.03      |
| Calcium               | mg/L  | 0.988                        | --         | 1.07       | 0.999      | 1.09       | 1.08       | 1.1        | 1.08       | --         | 1.12       | 1.09       |
| Chloride              | mg/L  | 8.5                          | --         | 7.6        | 8.4        | 9.01       | 8.05       | 9.07       | 8.97       | --         | 9.52       | 9.76       |
| Fluoride              | mg/L  | <0.032                       | <0.032     | <0.032     | <0.032     | <0.05      | <0.05      | <0.06      | <0.06      | --         | <0.06      | <0.06      |
| pH_Field              | SU    | 4.96                         | 5.22       | 5.11       | 5.05       | 5.05       | 4.37       | 5.08       | 4.24       | --         | 4.93       | 4.94       |
| Sulfate               | mg/L  | <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  | 35.3                         | --         | 34.7       | 41.3       | 40         | 36.7       | 37.3       | 39.3       | --         | 38         | 35.3       |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |            |            |            |            |
| Antimony              | mg/L  | --                           | <0.0006    | <0.0006    | <0.0008    | <0.0008    | <0.0008    | <0.0008    | <0.0008    | --         | <0.000507  | <0.000508  |
| Arsenic               | mg/L  | --                           | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | --         | <6.8e-005  | <6.8e-005  |
| Barium                | mg/L  | --                           | 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    | --         | <0.000406  | <0.000406  |
| Cadmium               | mg/L  | --                           | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | --         | <6.8e-005  | <6.8e-005  |
| Chromium              | mg/L  | --                           | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | 0.000919 J | 0.000932 J |
| Cobalt                | mg/L  | --                           | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | 0.000196 J | 0.000156 J |
| Combined Radium 226 + | pCi/L | --                           | 0.543 U    | 0.372 U    | 0.591      | 2.31       | 1.52       | 0.478 U    | 0.158 U    | 0.521 U    | 0.749 U    | 0.688 U    |
| Fluoride              | mg/L  | <0.032                       | <0.032     | <0.032     | <0.032     | <0.05      | <0.05      | <0.06      | <0.06      | --         | <0.06      | <0.06      |
| Lead                  | mg/L  | --                           | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | --         | <6.8e-005  | <6.8e-005  |
| Lithium               | mg/L  | --                           | <0.01      | <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   | <0.0003    | <0.0003    | <0.0003    | <0.0003    | --         | <0.0003    | <0.0003    |
| Molybdenum            | mg/L  | --                           | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <6.8e-005  | <6.8e-005  |
| Selenium              | mg/L  | --                           | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.000507  | <0.000508  |
| Thallium              | mg/L  | --                           | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | --         | <6.8e-005  | <6.8e-005  |

**Notes:**

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





**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |            |            |            |            |  |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--|
|                       |       | BY-AP-MW-3                   |            |            | BY-UP-MW-3 |            |            |            |            |            |            |            |  |
|                       |       | 05/25/2022                   | 11/01/2022 | 04/04/2023 | 02/23/2016 | 04/19/2016 | 06/07/2016 | 08/30/2016 | 10/18/2016 | 01/31/2017 | 03/20/2017 | 05/02/2017 |  |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |            |            |            |            |  |
| Boron                 | mg/L  | <0.03                        | <0.03      | 0.0458 J   | <0.02      | <0.02      | <0.02      | <0.02      | <0.02      | <0.02      | --         | <0.02      |  |
| Calcium               | mg/L  | 1.29                         | 0.926      | 1.27       | 1.77       | 1.68       | 1.68       | 1.62       | 1.53       | 1.65       | --         | 1.58       |  |
| Chloride              | mg/L  | 15.2                         | 8.88       | 9.66       | 3.68       | 3.72       | 3.66       | 3.7        | 3.77       | --         | 3.7        | 4.6        |  |
| Fluoride              | mg/L  | <0.06                        | <0.06      | <0.06      | 0.02 J     | 0.016 J    | 0.052 J    | 0.038 J    | 0.03 J     | --         | <0.032     | <0.032     |  |
| pH_Field              | SU    | 4.64                         | 5.01       | 5.31       | 4.96       | 4.94       | 4.96       | 4.92       | 4.98       | 4.74       | 4.9        | 4.98       |  |
| Sulfate               | mg/L  | 1.41 J                       | 1.66 J     | 2.92       | 7.44       | 7.66       | 8.16       | 8.43       | 8.47       | --         | 7.4        | 6.3        |  |
| TDS                   | mg/L  | 50.7                         | 40         | 43.3       | 40         | 32         | 38.7       | 31.3       | 26.7       | 30         | --         | 30.7       |  |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |            |            |            |            |  |
| Antimony              | mg/L  | <0.000508                    | <0.000508  | <0.00071   | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | 0.000911 J | --         | <0.0006    |  |
| Arsenic               | mg/L  | <8.1e-005                    | <8.1e-005  | 0.000455   | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | --         | <0.001     |  |
| Barium                | mg/L  | 0.0494                       | 0.0289     | 0.0255     | 0.0862     | 0.0718     | 0.0754     | 0.0768     | 0.0727     | 0.0698     | --         | 0.0723     |  |
| Beryllium             | mg/L  | <0.000406                    | <0.000406  | <0.000406  | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | --         | <0.0006    |  |
| Cadmium               | mg/L  | <6.8e-005                    | <6.8e-005  | <6.8e-005  | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | --         | <0.0002    |  |
| Chromium              | mg/L  | 0.00104                      | 0.000619 J | 0.000414 J | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     |  |
| Cobalt                | mg/L  | 0.000284                     | 0.000152 J | 0.000108 J | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     |  |
| Combined Radium 226 + | pCi/L | 1.72                         | 0.505 U    | 0.479 U    | 1 U        | 1 U        | 0.342 U    | 0.702      | 0.791      | 0.0613 U   | --         | 0.974      |  |
| Fluoride              | mg/L  | <0.06                        | <0.06      | <0.06      | 0.02 J     | 0.016 J    | 0.052 J    | 0.038 J    | 0.03 J     | --         | <0.032     | <0.032     |  |
| Lead                  | mg/L  | <6.8e-005                    | <6.8e-005  | <6.8e-005  | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | --         | <0.001     |  |
| Lithium               | mg/L  | <0.007105                    | <0.007105  | <0.007105  | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | --         | <0.01      |  |
| Mercury               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.00025   | <0.00025   | <0.00025   | <0.00025   | <0.00025   | <0.00025   | --         | <0.00025   |  |
| Molybdenum            | mg/L  | <0.000102                    | <0.000102  | <0.005075  | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     |  |
| Selenium              | mg/L  | <0.000508                    | <0.000508  | <0.000508  | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     |  |
| Thallium              | mg/L  | <6.8e-005                    | <6.8e-005  | <6.8e-005  | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | --         | <0.0002    |  |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |            |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                       |       | BY-UP-MW-3                   |            |            |            |            |            |            |            |            |            |            |
|                       |       | 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 |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |            |            |            |            |
| Boron                 | mg/L  | <0.02                        | <0.02      | --         | <0.02      | <0.02      | <0.03      | <0.03      | <0.03      | <0.03      | <0.03      | <0.03      |
| Calcium               | mg/L  | 1.55                         | 1.71       | --         | 1.76       | 1.69       | 1.74       | 1.86       | 1.92       | 1.97       | 2.06       | 2.1        |
| Chloride              | mg/L  | 3.4                          | 3.9        | --         | 4.1        | 3.5        | 3.58       | 3.64       | 3.47       | 3.47       | 3.42       | 3.41       |
| Fluoride              | mg/L  | 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    | 4.94                         | 4.93       | 4.91       | 4.87       | 4.94       | 4.8        | 4.52       | 4.4        | 4.76       | 4.53       | 4.55       |
| Sulfate               | mg/L  | 7.1                          | 7.3        | --         | 6.9        | 6.5        | 7.81       | 7.62       | 7.98       | 7.13       | 7.73       | 7.36       |
| TDS                   | mg/L  | 32.7                         | 38         | --         | 35.3       | 36         | 37.3       | 36.7       | 39.3       | 42.7       | 44         | 36         |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |            |            |            |            |
| Antimony              | mg/L  | <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     | <6.8e-005  | <6.8e-005  |
| Barium                | mg/L  | 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    | <0.000406  | <0.000406  |
| Cadmium               | mg/L  | <0.0002                      | --         | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <6.8e-005  | <6.8e-005  |
| Chromium              | mg/L  | <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     | 0.00142    | 0.00156    |
| Combined Radium 226 + | pCi/L | 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       |
| Fluoride              | mg/L  | 0.1                          | <0.032     | <0.032     | <0.032     | <0.032     | <0.05      | <0.05      | <0.06      | <0.06      | <0.06      | <0.06      |
| Lead                  | mg/L  | <0.001                       | --         | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <6.8e-005  | <6.8e-005  |
| Lithium               | mg/L  | <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   | <0.0003    | <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     | <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     | <0.000507  | <0.000508  |
| Thallium              | mg/L  | <0.0002                      | --         | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <6.8e-005  | <6.8e-005  |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |            |            |            |            |  |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--|
|                       |       | BY-UP-MW-3                   |            |            | BY-AP-MW-4 |            |            |            |            |            |            |            |  |
|                       |       | 05/31/2022                   | 11/01/2022 | 04/12/2023 | 03/01/2016 | 04/19/2016 | 06/07/2016 | 08/30/2016 | 10/19/2016 | 01/31/2017 | 03/21/2017 | 05/02/2017 |  |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |            |            |            |            |  |
| Boron                 | mg/L  | <0.03                        | <0.03      | <0.03      | <0.02      | <0.02      | <0.02      | <0.02      | <0.02      | <0.02      | --         | <0.02      |  |
| Calcium               | mg/L  | 1.95                         | 1.94       | 1.83       | 1.07       | 0.969      | 1.08       | 0.952      | 1.17       | 0.946      | --         | 0.826      |  |
| Chloride              | mg/L  | 3.39                         | 3.09       | 3.11       | 7.74       | 7.66       | 11.3       | 10.8       | 11.1       | --         | 11         | 12         |  |
| Fluoride              | mg/L  | <0.06                        | <0.06      | <0.06      | 0.02 J     | 0.016 J    | 0.047 J    | 0.035 J    | 0.025 J    | --         | <0.032     | 0.1        |  |
| pH_Field              | SU    | 3.54                         | 4.12       | 4.83       | 5.19       | 5.06       | 4.7        | 4.77       | 4.67       | 4.42       | 4.45       | 4.46       |  |
| Sulfate               | mg/L  | 7.18                         | 6.83       | 7.59       | 2.58       | 2.3        | 2.58       | 2.81       | 5.06       | --         | 3.4 J      | 2.7 J      |  |
| TDS                   | mg/L  | 31.3                         | 36         | 30.7       | 27.3       | 38         | 48.7       | 32.7       | 36         | 40.7       | --         | 30.7       |  |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |            |            |            |            |  |
| Antimony              | mg/L  | <0.000508                    | <0.000508  | <0.00071   | <0.0006    | <0.0006    | 0.000869 J | <0.0006    | <0.0006    | 0.00086 J  | --         | <0.0006    |  |
| Arsenic               | mg/L  | <8.1e-005                    | <8.1e-005  | <0.000112  | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | --         | <0.001     |  |
| Barium                | mg/L  | 0.0993                       | 0.0948     | 0.0898     | 0.018      | 0.0166     | 0.0271     | 0.0312     | 0.0443     | 0.0231     | --         | 0.0241     |  |
| Beryllium             | mg/L  | <0.000406                    | <0.000406  | <0.000406  | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | --         | <0.0006    |  |
| Cadmium               | mg/L  | <6.8e-005                    | <6.8e-005  | <6.8e-005  | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | --         | <0.0002    |  |
| Chromium              | mg/L  | 0.00129                      | 0.0012     | 0.00121    | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     |  |
| Cobalt                | mg/L  | 0.00154                      | 0.00142    | 0.0013     | <0.002     | <0.002     | 0.00424 J  | 0.00262 J  | 0.00469 J  | 0.0127     | --         | 0.00891 J  |  |
| Combined Radium 226 + | pCi/L | 1.67                         | 0.53 U     | 1.28       | 1 U        | 1 U        | 0.287 U    | 0.585      | 1.85       | 0.25 U     | --         | 0.391 U    |  |
| Fluoride              | mg/L  | <0.06                        | <0.06      | <0.06      | 0.02 J     | 0.016 J    | 0.047 J    | 0.035 J    | 0.025 J    | --         | <0.032     | 0.1        |  |
| Lead                  | mg/L  | <6.8e-005                    | <6.8e-005  | <6.8e-005  | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | --         | <0.001     |  |
| Lithium               | mg/L  | <0.007105                    | <0.007105  | <0.007105  | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | --         | <0.01      |  |
| Mercury               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.00025   | <0.00025   | <0.00025   | <0.00025   | <0.00025   | <0.00025   | --         | <0.00025   |  |
| Molybdenum            | mg/L  | <0.000102                    | <0.000102  | <0.005075  | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     |  |
| Selenium              | mg/L  | <0.000508                    | <0.000508  | <0.000508  | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     |  |
| Thallium              | mg/L  | <6.8e-005                    | <6.8e-005  | <6.8e-005  | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | --         | <0.0002    |  |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |            |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                       |       | BY-AP-MW-4                   |            |            |            |            |            |            |            |            |            |            |
|                       |       | 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 | 05/11/2021 | 05/18/2021 |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |            |            |            |            |
| Boron                 | mg/L  | <0.02                        | <0.02      | --         | <0.02      | <0.02      | <0.03      | <0.03      | <0.03      | <0.03      | --         | <0.03      |
| Calcium               | mg/L  | 0.834                        | 0.884      | --         | 0.921      | 1.01       | 0.622      | 0.645      | 0.898      | 0.566      | --         | 0.974      |
| Chloride              | mg/L  | 12                           | 11         | --         | 9.2        | 10         | 8.52       | 7.35       | 9.54       | 7.82       | --         | 9.53       |
| Fluoride              | mg/L  | 0.1                          | <0.032     | <0.032     | <0.032     | <0.032     | <0.05      | <0.05      | <0.06      | <0.06      | --         | <0.06      |
| pH_Field              | SU    | 4.89                         | 4.71       | 5.03       | 4.44       | 4.78       | 4.65       | 4.28       | 4.69       | 4.23       | --         | 4.17       |
| Sulfate               | mg/L  | 1.5 J                        | 1.9 J      | --         | 1.4 J      | 2.3 J      | 2.83       | 2.09       | 4.12       | 1.83       | --         | 4.43       |
| TDS                   | mg/L  | 41.3                         | 34.7       | --         | 39.3       | 32         | 36         | 32         | 42.7       | 36         | --         | 47.3       |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |            |            |            |            |
| Antimony              | mg/L  | <0.0006                      | --         | <0.0006    | <0.0006    | <0.0008    | <0.0008    | <0.0008    | <0.0008    | <0.0008    | --         | <0.000507  |
| Arsenic               | mg/L  | <0.001                       | --         | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | --         | 0.000125 J |
| Barium                | mg/L  | 0.0276                       | --         | 0.0293     | 0.0205     | 0.0321     | 0.0213     | 0.0207     | 0.0193     | 0.0131     | --         | 0.0225     |
| Beryllium             | mg/L  | <0.0006                      | --         | <0.0006    | <0.0006    | 0.00071 J  | <0.0006    | <0.0006    | <0.0006    | <0.0006    | --         | <0.000406  |
| Cadmium               | mg/L  | <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     | --         | 0.000544 J |
| Cobalt                | mg/L  | 0.00217 J                    | --         | <0.002     | 0.0126     | 0.00363 J  | 0.00576    | <0.002     | 0.0205     | 0.00657    | --         | 0.018      |
| Combined Radium 226 + | pCi/L | 0.183 U                      | --         | 0.622 U    | 0.0917 U   | 0.695      | 0.947      | 0.7        | 0.323 U    | 0.39 U     | 0.969 U    | 0.734 U    |
| Fluoride              | mg/L  | 0.1                          | <0.032     | <0.032     | <0.032     | <0.032     | <0.05      | <0.05      | <0.06      | <0.06      | --         | <0.06      |
| Lead                  | mg/L  | <0.001                       | --         | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | --         | 0.00013 J  |
| Lithium               | mg/L  | <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   | <0.0003    | <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     | --         | <6.8e-005  |
| Selenium              | mg/L  | <0.002                       | --         | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.000507  |
| Thallium              | mg/L  | <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. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |             |            |            |            |            |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|------------|
|                       |       | BY-AP-MW-4                   |            |            |             | BY-UP-MW-4 |            |            |            |            |            |            |
|                       |       | 11/01/2021                   | 05/25/2022 | 10/31/2022 | 04/04/2023  | 02/23/2016 | 04/19/2016 | 06/06/2016 | 08/30/2016 | 10/18/2016 | 01/31/2017 | 03/20/2017 |
| <b>Appendix III</b>   |       |                              |            |            |             |            |            |            |            |            |            |            |
| Boron                 | mg/L  | <0.03                        | <0.03      | <0.03      | <0.03       | 0.0257 J   | <0.02      | <0.02      | <0.02      | 0.022 J    | <0.02      | --         |
| Calcium               | mg/L  | 0.816                        | 1.54       | 3.15       | 3.29        | 1.42       | 1.31       | 1.35       | 1.31       | 1.22       | 1.36       | --         |
| Chloride              | mg/L  | 7.99                         | 16.1       | 32.8       | 32.4        | 3.5        | 3.63       | 3.6        | 3.54       | 3.68       | --         | 4.6        |
| Fluoride              | mg/L  | <0.06                        | <0.06      | <0.06      | <0.06       | 0.02 J     | 0.015 J    | 0.05 J     | 0.036 J    | 0.025 J    | --         | <0.032     |
| pH_Field              | SU    | 5.18                         | 4.6        | 4.65       | 4.55        | 4.74       | 4.86       | 4.88       | 4.91       | 4.95       | 4.71       | 4.83       |
| Sulfate               | mg/L  | 3.34                         | 1.97 J     | 1.02 J     | 2.33        | 7.04       | 6.74       | 7.04       | 7.57       | 6.62       | --         | 7          |
| TDS                   | mg/L  | 32                           | 48.7       | 71.3       | 76.7        | --         | --         | 28.7       | 25.3       | --         | 26         | --         |
| <b>Appendix IV</b>    |       |                              |            |            |             |            |            |            |            |            |            |            |
| Antimony              | mg/L  | <0.000508                    | <0.000508  | <0.000508  | <0.00071    | 0.000606 J | <0.0006    | <0.0006    | <0.0006    | <0.0006    | 0.000928 J | --         |
| Arsenic               | mg/L  | 0.000203                     | <8.1e-005  | <8.1e-005  | <0.000112   | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | --         |
| Barium                | mg/L  | 0.0217                       | 0.0399     | 0.114      | 0.117       | 0.0973     | 0.0802     | 0.0862     | 0.0841     | 0.0715     | 0.0825     | --         |
| Beryllium             | mg/L  | <0.000406                    | 0.000656 J | 0.000451 J | 0.000432 J  | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | --         |
| Cadmium               | mg/L  | <6.8e-005                    | <6.8e-005  | 0.000102 J | 8.96e-005 J | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | --         |
| Chromium              | mg/L  | 0.000668 J                   | 0.000372 J | 0.000285 J | 0.000434 J  | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         |
| Cobalt                | mg/L  | 0.00478                      | 0.00455    | 0.00307    | 0.0031      | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         |
| Combined Radium 226 + | pCi/L | 0.888 U                      | 0.821 U    | 0.927      | 1.82        | 2.1138     | 1 U        | 0.757      | 0.992      | 0.905      | 1.08       | --         |
| Fluoride              | mg/L  | <0.06                        | <0.06      | <0.06      | <0.06       | 0.02 J     | 0.015 J    | 0.05 J     | 0.036 J    | 0.025 J    | --         | <0.032     |
| Lead                  | mg/L  | 6.92e-005 J                  | 0.000176 J | 0.000118 J | 8.34e-005 J | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | --         |
| Lithium               | mg/L  | <0.007105                    | <0.007105  | <0.007105  | <0.007105   | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | --         |
| Mercury               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.0003     | <0.00025   | <0.00025   | <0.00025   | <0.00025   | <0.00025   | <0.00025   | --         |
| Molybdenum            | mg/L  | <6.8e-005                    | <0.000102  | <0.000102  | <0.005075   | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         |
| Selenium              | mg/L  | <0.000508                    | <0.000508  | <0.000508  | <0.000508   | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         |
| Thallium              | mg/L  | <6.8e-005                    | <6.8e-005  | <6.8e-005  | <6.8e-005   | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | --         |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |            |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                       |       | BY-UP-MW-4                   |            |            |            |            |            |            |            |            |            |            |
|                       |       | 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 |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |            |            |            |            |
| Boron                 | mg/L  | <0.02                        | <0.02      | <0.02      | --         | <0.02      | <0.02      | <0.03      | <0.03      | <0.03      | <0.03      | <0.03      |
| Calcium               | mg/L  | 1.24                         | 1.28       | 1.47       | --         | 1.47       | 1.52       | 1.6        | 1.7        | 1.78       | 1.94       | 1.93       |
| Chloride              | mg/L  | 3.9                          | 3.4        | 4.3        | --         | 3.8        | 3.6        | 3.6        | 3.5        | 3.34       | 3.29       | 3.33       |
| Fluoride              | mg/L  | <0.032                       | 0.1        | <0.032     | <0.032     | <0.032     | <0.032     | <0.05      | <0.05      | <0.06      | <0.06      | <0.06      |
| pH_Field              | SU    | 4.93                         | 4.9        | 4.82       | 4.85       | 4.8        | 4.88       | 4.73       | 4.67       | 4.51       | 4.75       | 4.67       |
| Sulfate               | mg/L  | 5.6                          | 6.6        | 7.2        | --         | 5.9        | 5.1        | 7.1        | 6.88       | 10.8       | 6.52       | 6.8        |
| TDS                   | mg/L  | --                           | 42.7       | 26.7       | --         | 34.7       | 32.7       | 31.3       | 36         | 36.7       | 39.3       | 46.7       |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |            |            |            |            |
| Antimony              | mg/L  | <0.0006                      | <0.0006    | --         | <0.0006    | <0.0006    | <0.0008    | <0.0008    | <0.0008    | <0.0008    | <0.0008    | <0.000507  |
| Arsenic               | mg/L  | <0.001                       | <0.001     | --         | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | 0.0017 J   | <0.001     | 0.000217   |
| Barium                | mg/L  | 0.0777                       | 0.078      | --         | 0.0825     | 0.102      | 0.0994     | 0.102      | 0.111      | 0.129      | 0.125      | 0.125      |
| Beryllium             | mg/L  | <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    | --         | <0.0003    | <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     | 0.00604 J  | <0.002     | 0.00159    |
| Cobalt                | mg/L  | <0.002                       | <0.002     | --         | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | 0.00137    |
| Combined Radium 226 + | pCi/L | 1.18                         | 1.1        | --         | 1.32 U     | 1.19       | 0.863      | 0.474 U    | 0.624 U    | 1.09       | 1.27       | 0.969 U    |
| Fluoride              | mg/L  | <0.032                       | 0.1        | <0.032     | <0.032     | <0.032     | <0.032     | <0.05      | <0.05      | <0.06      | <0.06      | <0.06      |
| Lead                  | mg/L  | <0.001                       | <0.001     | --         | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | 0.00126 J  | <0.001     | 0.000159 J |
| Lithium               | mg/L  | <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   | <0.0003    | <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     | <6.8e-005  |
| Selenium              | mg/L  | <0.002                       | <0.002     | --         | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.000507  |
| Thallium              | mg/L  | <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. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |             |            |            |            |            |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|------------|
|                       |       | BY-UP-MW-4                   |            |            |             | BY-AP-MW-5 |            |            |            |            |            |            |
|                       |       | 10/18/2021                   | 05/31/2022 | 11/01/2022 | 04/12/2023  | 03/01/2016 | 04/20/2016 | 06/07/2016 | 08/30/2016 | 10/18/2016 | 01/31/2017 | 03/22/2017 |
| <b>Appendix III</b>   |       |                              |            |            |             |            |            |            |            |            |            |            |
| Boron                 | mg/L  | <0.03                        | <0.03      | <0.03      | <0.03       | 0.0462 J   | 0.0719 J   | 0.0591 J   | 0.0675 J   | 0.0699 J   | 0.0518 J   | --         |
| Calcium               | mg/L  | 2.01                         | 2.03       | 1.6        | 1.75        | 15         | 14.3       | 14.8       | 13.7       | 13.3       | 13.7       | --         |
| Chloride              | mg/L  | 3.32                         | 3.31       | 3.3        | 3.39        | 19.7       | 18.9       | 18.5       | 17.9       | 18.2       | --         | 22         |
| Fluoride              | mg/L  | <0.06                        | <0.06      | <0.06      | <0.06       | 0.04 J     | 0.043 J    | 0.075 J    | 0.057 J    | 0.049 J    | --         | 0.04 J     |
| pH_Field              | SU    | 4.38                         | 3.97       | 4.74       | 4.73        | 5.99       | 5.96       | 6.03       | 6          | 5.99       | 5.96       | 6.01       |
| Sulfate               | mg/L  | 6.58                         | 7.94       | 4.7        | 5.93        | <0.3       | <0.3       | 0.583 J    | <0.3       | <0.3       | --         | <1.4       |
| TDS                   | mg/L  | 36                           | 36.7       | 31.3       | 32          | 273        | 269        | 272        | 244        | 238        | 266        | --         |
| <b>Appendix IV</b>    |       |                              |            |            |             |            |            |            |            |            |            |            |
| Antimony              | mg/L  | <0.000508                    | <0.000508  | <0.000508  | <0.00071    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | 0.000765 J | --         |
| Arsenic               | mg/L  | 0.000193 J                   | <8.1e-005  | 0.000128 J | <0.000112   | 0.0277     | 0.0307     | 0.0308     | 0.033      | 0.0296     | 0.0264     | --         |
| Barium                | mg/L  | 0.124                        | 0.129      | 0.112      | 0.115       | 0.136      | 0.132      | 0.141      | 0.136      | 0.125      | 0.125      | --         |
| Beryllium             | mg/L  | <0.000406                    | <0.000406  | <0.000406  | <0.000406   | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | --         |
| Cadmium               | mg/L  | <6.8e-005                    | <6.8e-005  | <6.8e-005  | <6.8e-005   | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | --         |
| Chromium              | mg/L  | 0.00146                      | 0.00156    | 0.00111    | 0.00128     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         |
| Cobalt                | mg/L  | 0.00139                      | 0.00138    | 0.00176    | 0.00124     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         |
| Combined Radium 226 + | pCi/L | 2.19                         | 1.47       | 1.36       | 1.17        | 1.67764 U  | 3.0801     | 1.5        | 1.17       | 1.93       | 1          | --         |
| Fluoride              | mg/L  | <0.06                        | <0.06      | <0.06      | <0.06       | 0.04 J     | 0.043 J    | 0.075 J    | 0.057 J    | 0.049 J    | --         | 0.04 J     |
| Lead                  | mg/L  | 0.00012 J                    | <6.8e-005  | <6.8e-005  | 8.65e-005 J | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | --         |
| Lithium               | mg/L  | <0.007105                    | <0.007105  | <0.007105  | <0.007105   | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | --         |
| Mercury               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.0003     | <0.00025   | <0.00025   | <0.00025   | <0.00025   | <0.00025   | <0.00025   | --         |
| Molybdenum            | mg/L  | <6.8e-005                    | <0.000102  | <0.000102  | <0.005075   | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         |
| Selenium              | mg/L  | <0.000508                    | <0.000508  | <0.000508  | <0.000508   | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         |
| Thallium              | mg/L  | <6.8e-005                    | <6.8e-005  | <6.8e-005  | <6.8e-005   | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | --         |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |            |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                       |       | BY-AP-MW-5                   |            |            |            |            |            |            |            |            |            |            |
|                       |       | 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 |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |            |            |            |            |
| Boron                 | mg/L  | 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  | 14.3                         | 14.7       | 15.1       | --         | 14.5       | 13.7       | 14.5       | 13.8       | 14.4       | 13.6       | 16.2       |
| Chloride              | mg/L  | 22                           | 21         | 21         | --         | 20         | 21         | 19.7       | 19.8       | 19.8       | 19.1       | 21         |
| Fluoride              | mg/L  | 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                         | 6.01       | 6          | 5.98       | 5.99       | 6.01       | 5.93       | 5.47       | 6.01       | 5.93       | 6.36       |
| Sulfate               | mg/L  | 5                            | <1.4       | <1.4       | --         | <1.4       | 2.7 J      | 5.51       | 7.4        | 23.7       | 11         | 15         |
| TDS                   | mg/L  | 259                          | 255        | 276        | --         | 247        | 248        | 259        | 243        | 243        | 253        | 297        |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |            |            |            |            |
| Antimony              | mg/L  | <0.0006                      | <0.0006    | --         | <0.0006    | <0.0006    | <0.0008    | <0.0008    | <0.0008    | <0.0008    | <0.0008    | <0.000508  |
| Arsenic               | mg/L  | 0.0309                       | 0.0283     | --         | 0.0282     | 0.0315     | 0.0283     | 0.0301     | 0.0307     | 0.0329     | 0.0372     | 0.0357     |
| Barium                | mg/L  | 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    | <0.000406  |
| Cadmium               | mg/L  | <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     | 0.00101 J  |
| Cobalt                | mg/L  | <0.002                       | <0.002     | --         | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | 0.00197    |
| Combined Radium 226 + | pCi/L | 1.48                         | 0.915      | --         | 1.74 U     | 0.58       | 1.43       | 2.16       | 2.14       | 0.754      | 1.1        | 2.06       |
| Fluoride              | mg/L  | 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   |
| Lead                  | mg/L  | <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      | <0.007105  |
| Mercury               | mg/L  | <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     | 0.000124 J |
| Selenium              | mg/L  | <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    | <6.8e-005  |

**Notes:**

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





**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |            |            |            |            |  |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--|
|                       |       | BY-AP-MW-5                   |            |            | BY-AP-MW-6 |            |            |            |            |            |            |            |  |
|                       |       | 05/25/2022                   | 10/31/2022 | 04/04/2023 | 03/01/2016 | 04/19/2016 | 06/07/2016 | 08/30/2016 | 10/19/2016 | 01/31/2017 | 03/22/2017 | 05/03/2017 |  |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |            |            |            |            |  |
| Boron                 | mg/L  | 0.063 J                      | 0.0369 J   | 0.0381 J   | <0.02      | <0.02      | <0.02      | <0.02      | <0.02      | <0.02      | --         | <0.02      |  |
| Calcium               | mg/L  | 14.4                         | 10.1       | 8.36       | 1.87       | 1.69       | 1.75       | 1.77       | 1.8        | 1.98       | --         | 1.97       |  |
| Chloride              | mg/L  | 20                           | 17.5       | 17.2       | 5.77       | 5.57       | 5.52       | 5.5        | 5.55       | --         | 6          | 6.4        |  |
| Fluoride              | mg/L  | <0.06                        | 0.0614 J   | 0.0631 J   | <0.01      | 0.016 J    | 0.048 J    | 0.034 J    | 0.023 J    | --         | <0.032     | <0.032     |  |
| pH_Field              | SU    | 5.99                         | 5.99       | 5.84       | 5.59       | 5.55       | 5.43       | 5.39       | 5.31       | 5.26       | 5.32       | 5.35       |  |
| Sulfate               | mg/L  | 5.53                         | 15.2       | 43.9       | 0.36 J     | 0.435 J    | 1.22       | 1.08       | 1.01       | --         | <1.4       | 1.4 J      |  |
| TDS                   | mg/L  | 252                          | 193        | 151        | 45.3       | 46         | 46         | 30         | 37.3       | 43.3       | --         | 44.7       |  |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |            |            |            |            |  |
| Antimony              | mg/L  | <0.000508                    | <0.000508  | <0.00071   | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | 0.000852 J | --         | <0.0006    |  |
| Arsenic               | mg/L  | 0.0334                       | 0.0293     | 0.0194     | 0.00142 J  | 0.00138 J  | <0.001     | <0.001     | <0.001     | <0.001     | --         | <0.001     |  |
| Barium                | mg/L  | 0.164                        | 0.102      | 0.0822     | 0.0278     | 0.0242     | 0.0223     | 0.0242     | 0.024      | 0.0248     | --         | 0.0268     |  |
| Beryllium             | mg/L  | <0.000406                    | <0.000406  | <0.000406  | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | --         | <0.0006    |  |
| Cadmium               | mg/L  | <6.8e-005                    | <6.8e-005  | <6.8e-005  | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | --         | <0.0002    |  |
| Chromium              | mg/L  | 0.0011                       | 0.000894 J | 0.000932 J | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     |  |
| Cobalt                | mg/L  | 0.00188                      | 0.00144    | 0.00114    | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     |  |
| Combined Radium 226 + | pCi/L | 1.71                         | 0.75 U     | 1.15       | 1 U        | 1 U        | 0.353 U    | 0.428 U    | 0.449 U    | -0.0173 U  | --         | 0.447      |  |
| Fluoride              | mg/L  | <0.06                        | 0.0614 J   | 0.0631 J   | <0.01      | 0.016 J    | 0.048 J    | 0.034 J    | 0.023 J    | --         | <0.032     | <0.032     |  |
| Lead                  | mg/L  | <6.8e-005                    | <6.8e-005  | <6.8e-005  | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | --         | <0.001     |  |
| Lithium               | mg/L  | <0.007105                    | <0.007105  | <0.007105  | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | --         | <0.01      |  |
| Mercury               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.00025   | <0.00025   | <0.00025   | <0.00025   | <0.00025   | <0.00025   | --         | <0.00025   |  |
| Molybdenum            | mg/L  | 0.000234                     | 0.000295   | <0.005075  | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     |  |
| Selenium              | mg/L  | <0.000508                    | <0.000508  | <0.000508  | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     |  |
| Thallium              | mg/L  | <6.8e-005                    | <6.8e-005  | <6.8e-005  | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | --         | <0.0002    |  |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |            |            |            |             |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|
|                       |       | BY-AP-MW-6                   |            |            |            |            |            |            |            |            |            |             |
|                       |       | 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  |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |            |            |            |             |
| Boron                 | mg/L  | <0.02                        | <0.02      | --         | <0.02      | <0.02      | <0.03      | <0.03      | <0.03      | <0.03      | <0.03      | <0.03       |
| Calcium               | mg/L  | 1.98                         | 2.14       | --         | 2.13       | 1.91       | 1.72       | 1.92       | 1.68       | 1.8        | 1.93       | 1.97        |
| Chloride              | mg/L  | 5.9                          | 6.5        | --         | 5.5        | 6.2        | 6.15       | 5.99       | 5.94       | 5.94       | 6.26       | 6.4         |
| Fluoride              | mg/L  | <0.032                       | <0.032     | <0.032     | <0.032     | <0.032     | <0.05      | <0.05      | <0.06      | <0.06      | <0.06      | <0.06       |
| pH_Field              | SU    | 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  | 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                         | 48.7       | --         | 44         | 50.7       | 48.7       | 38         | 42         | 37.3       | 46.7       | 38          |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |            |            |            |             |
| Antimony              | mg/L  | <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     | 0.000103 J | 9.83e-005 J |
| Barium                | mg/L  | 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    | <0.000406  | <0.000406   |
| Cadmium               | mg/L  | <0.0002                      | --         | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <6.8e-005  | 7.34e-005 J |
| Chromium              | mg/L  | <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     | 0.000678   | 0.000601    |
| Combined Radium 226 + | pCi/L | 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     |
| Fluoride              | mg/L  | <0.032                       | <0.032     | <0.032     | <0.032     | <0.032     | <0.05      | <0.05      | <0.06      | <0.06      | <0.06      | <0.06       |
| Lead                  | mg/L  | <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      | <0.007105  | <0.007105   |
| Mercury               | mg/L  | <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     | 0.000117 J | 0.00011 J   |
| Selenium              | mg/L  | <0.002                       | --         | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.000507  | <0.000508   |
| Thallium              | mg/L  | <0.0002                      | --         | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <6.8e-005  | <6.8e-005   |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |            |            |            |            |  |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--|
|                       |       | BY-AP-MW-6                   |            |            | BY-AP-MW-7 |            |            |            |            |            |            |            |  |
|                       |       | 05/25/2022                   | 10/31/2022 | 04/04/2023 | 03/01/2016 | 04/20/2016 | 06/07/2016 | 08/31/2016 | 10/19/2016 | 01/31/2017 | 03/22/2017 | 05/03/2017 |  |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |            |            |            |            |  |
| Boron                 | mg/L  | <0.03                        | <0.03      | <0.03      | 0.0546 J   | 0.0472 J   | 0.0417 J   | 0.036 J    | 0.0386 J   | 0.0343 J   | --         | 0.037 J    |  |
| Calcium               | mg/L  | 1.62                         | 1.63       | 1.91       | 7.65       | 7.54       | 7.71       | 8.1        | 8.59       | 8.78       | --         | 8.85       |  |
| Chloride              | mg/L  | 6.63                         | 7.48       | 7.81       | 11.2       | 10.8       | 10.8       | 10.8       | 10.8       | --         | 13         | 14         |  |
| Fluoride              | mg/L  | <0.06                        | <0.06      | <0.06      | 0.06 J     | 0.078 J    | 0.101 J    | 0.086 J    | 0.075 J    | --         | 0.06 J     | 0.08 J     |  |
| pH_Field              | SU    | 4.57                         | 4.9        | 5.33       | 6.36       | 6.31       | 6.3        | 6.31       | 6.23       | 6.26       | 6.32       | 6.29       |  |
| Sulfate               | mg/L  | 1.27 J                       | 1.22 J     | 1.59 J     | 0.3 J      | 0.514 J    | 0.971 J    | 0.445 J    | 0.366 J    | --         | <1.4       | <1.4       |  |
| TDS                   | mg/L  | 40.7                         | 46         | 40         | 129        | 128        | 140        | 112        | 134        | 134        | --         | 127        |  |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |            |            |            |            |  |
| Antimony              | mg/L  | <0.000508                    | <0.000508  | <0.00071   | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | 0.00107 J  | --         | <0.0006    |  |
| Arsenic               | mg/L  | 0.000105 J                   | <8.1e-005  | <0.000112  | 0.0166     | 0.02       | 0.0223     | 0.0231     | 0.0244     | 0.0197     | --         | 0.0212     |  |
| Barium                | mg/L  | 0.0268                       | 0.0263     | 0.0312     | 0.0519     | 0.0517     | 0.0577     | 0.0614     | 0.0618     | 0.0576     | --         | 0.0601     |  |
| Beryllium             | mg/L  | <0.000406                    | <0.000406  | <0.000406  | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | --         | <0.0006    |  |
| Cadmium               | mg/L  | 0.000306                     | <6.8e-005  | <6.8e-005  | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | --         | <0.0002    |  |
| Chromium              | mg/L  | 0.000245 J                   | <0.000203  | 0.000267 J | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     |  |
| Cobalt                | mg/L  | 0.000977                     | 0.000588   | 0.000652   | 0.011      | 0.0148     | 0.0172     | 0.0175     | 0.0189     | 0.0165     | --         | 0.0172     |  |
| Combined Radium 226 + | pCi/L | 1.06 U                       | 0.925      | 1.33       | 1 U        | 1 U        | 0.555 U    | 0.284 U    | 0.557 U    | 0.0949 U   | --         | 0.53       |  |
| Fluoride              | mg/L  | <0.06                        | <0.06      | <0.06      | 0.06 J     | 0.078 J    | 0.101 J    | 0.086 J    | 0.075 J    | --         | 0.06 J     | 0.08 J     |  |
| Lead                  | mg/L  | 0.0112                       | 0.00148    | 0.00195    | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | --         | <0.001     |  |
| Lithium               | mg/L  | <0.007105                    | <0.007105  | <0.007105  | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | --         | <0.01      |  |
| Mercury               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.00025   | <0.00025   | <0.00025   | <0.00025   | <0.00025   | <0.00025   | --         | <0.00025   |  |
| Molybdenum            | mg/L  | 0.000319                     | 0.000142 J | <0.005075  | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     |  |
| Selenium              | mg/L  | <0.000508                    | <0.000508  | <0.000508  | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     |  |
| Thallium              | mg/L  | <6.8e-005                    | <6.8e-005  | <6.8e-005  | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | --         | <0.0002    |  |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |            |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                       |       | BY-AP-MW-7                   |            |            |            |            |            |            |            |            |            |            |
|                       |       | 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 |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |            |            |            |            |
| Boron                 | mg/L  | 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  | 8.99                         | 9.64       | --         | 9.14       | 9.66       | 8.88       | 9.8        | 10.1       | 10.4       | 10.2       | 10         |
| Chloride              | mg/L  | 14                           | 13         | --         | 13         | 13         | 13.3       | 13.1       | 13.3       | 12.9       | 14.2       | 15.3       |
| Fluoride              | mg/L  | 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    | 6.27                         | 6.25       | 6.35       | 6.29       | 6.33       | 6.18       | 6.36       | 6.32       | 6.25       | 6.4        | 6.35       |
| Sulfate               | mg/L  | <1.4                         | <1.4       | --         | <1.4       | <1.4       | 2.77       | 2.51       | 4.78       | 3.59       | 4.6        | 5.17       |
| TDS                   | mg/L  | 134                          | 141        | --         | 133        | 138        | 132        | 137        | 135        | 129        | 175        | 123        |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |            |            |            |            |
| Antimony              | mg/L  | <0.0006                      | --         | <0.0006    | <0.0006    | <0.0008    | <0.0008    | <0.0008    | <0.0008    | <0.0008    | <0.000507  | <0.000508  |
| Arsenic               | mg/L  | 0.0203                       | --         | 0.0214     | 0.0218     | 0.0209     | 0.0178     | 0.0217     | 0.0215     | 0.0234     | 0.0215     | 0.0236     |
| Barium                | mg/L  | 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    | <0.000406  | <0.000406  |
| Cadmium               | mg/L  | <0.0002                      | --         | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <6.8e-005  | <6.8e-005  |
| Chromium              | mg/L  | <0.002                       | --         | <0.002     | 0.00328 J  | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | 0.00709    | 0.00309    |
| Cobalt                | mg/L  | 0.0173                       | --         | 0.0158     | 0.0169     | 0.0178     | 0.0197     | 0.0186     | 0.0172     | 0.0197     | 0.0189     | 0.0206     |
| Combined Radium 226 + | pCi/L | -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     |
| Fluoride              | mg/L  | 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   |
| Lead                  | mg/L  | <0.001                       | --         | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <6.8e-005  | <6.8e-005  |
| Lithium               | mg/L  | <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   | <0.0003    | <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     | 0.000214   | 0.000182 J |
| Selenium              | mg/L  | <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    | <6.8e-005  | <6.8e-005  |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |            |            |            |            |  |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--|
|                       |       | BY-AP-MW-7                   |            |            | BY-AP-MW-8 |            |            |            |            |            |            |            |  |
|                       |       | 05/24/2022                   | 10/31/2022 | 04/03/2023 | 03/01/2016 | 04/20/2016 | 06/07/2016 | 08/30/2016 | 10/18/2016 | 01/31/2017 | 03/22/2017 | 05/03/2017 |  |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |            |            |            |            |  |
| Boron                 | mg/L  | 0.0368 J                     | 0.275      | 0.177      | 1.72       | 1.7        | 1.57       | 1.67       | 1.4        | 1.46       | --         | 1.45       |  |
| Calcium               | mg/L  | 10.5                         | 2.12       | 3.52       | 36.1       | 34.5       | 34.7       | 34.1       | 33.2       | 32.3       | --         | 34.1       |  |
| Chloride              | mg/L  | 13.2                         | 96         | 59.4       | 24.5       | 22.5       | 21.6       | 21.6       | 20.2       | --         | 24         | 25         |  |
| Fluoride              | mg/L  | 0.0916 J                     | 0.381      | 0.171      | 0.03 J     | 0.043 J    | 0.069 J    | 0.052 J    | 0.042 J    | --         | <0.032     | 0.05 J     |  |
| pH_Field              | SU    | 6.32                         | 7.07       | 6.53       | 6.21       | 6.22       | 6.26       | 6.21       | 6.21       | 6.17       | 6.22       | 6.22       |  |
| Sulfate               | mg/L  | 7.14                         | 33.8       | 14.8       | <0.3       | <0.3       | 0.504 J    | <0.3       | <0.3       | --         | <1.4       | 2.7 J      |  |
| TDS                   | mg/L  | 154                          | 299        | 198        | 309        | 324        | 314        | 308        | 295        | 303        | --         | 300        |  |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |            |            |            |            |  |
| Antimony              | mg/L  | <0.000508                    | <0.000508  | <0.00071   | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | 0.00074 J  | --         | <0.0006    |  |
| Arsenic               | mg/L  | 0.0195                       | 0.00914    | 0.0148     | 0.036      | 0.0399     | 0.0401     | 0.0387     | 0.0394     | 0.0408     | --         | 0.0416     |  |
| Barium                | mg/L  | 0.0721                       | 0.0188     | 0.0319     | 0.142      | 0.143      | 0.145      | 0.147      | 0.14       | 0.134      | --         | 0.145      |  |
| Beryllium             | mg/L  | <0.000406                    | <0.000406  | <0.000406  | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | --         | <0.0006    |  |
| Cadmium               | mg/L  | <6.8e-005                    | <6.8e-005  | <6.8e-005  | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | --         | <0.0002    |  |
| Chromium              | mg/L  | 0.00034 J                    | 0.000273 J | 0.000218 J | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     |  |
| Cobalt                | mg/L  | 0.0234                       | 0.00239    | 0.00554    | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     |  |
| Combined Radium 226 + | pCi/L | 1.05 U                       | 0.932      | 0.49 U     | 1 U        | 2.0115 U   | 0.853      | 0.669      | 1.32       | 0.801      | --         | 0.648      |  |
| Fluoride              | mg/L  | 0.0916 J                     | 0.381      | 0.171      | 0.03 J     | 0.043 J    | 0.069 J    | 0.052 J    | 0.042 J    | --         | <0.032     | 0.05 J     |  |
| Lead                  | mg/L  | <6.8e-005                    | <6.8e-005  | <6.8e-005  | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | --         | <0.001     |  |
| Lithium               | mg/L  | <0.007105                    | <0.007105  | <0.007105  | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | --         | <0.01      |  |
| Mercury               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.00025   | <0.00025   | <0.00025   | <0.00025   | <0.00025   | <0.00025   | --         | <0.00025   |  |
| Molybdenum            | mg/L  | 0.000178 J                   | 0.00281    | <0.005075  | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     |  |
| Selenium              | mg/L  | <0.000508                    | <0.000508  | <0.000508  | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     |  |
| Thallium              | mg/L  | <6.8e-005                    | <6.8e-005  | <6.8e-005  | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | --         | <0.0002    |  |

**Notes:**

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





**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |            |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                       |       | BY-AP-MW-8                   |            |            |            |            |            |            |            |            |            |            |
|                       |       | 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 |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |            |            |            |            |
| Boron                 | mg/L  | 1.41                         | 1.16       | --         | 1.12       | 1.31       | 1.44       | 1.38       | 1.12       | 1.26       | 0.971      | 0.933      |
| Calcium               | mg/L  | 34.7                         | 34.4       | --         | 32.3       | 32.5       | 31.9       | 33         | 32.2       | 31.5       | 33         | 33.5       |
| Chloride              | mg/L  | 24                           | 24         | --         | 23         | 27         | 27.4       | 25.5       | 22.6       | 22.2       | 21.9       | 21.7       |
| Fluoride              | mg/L  | 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                         | 6.18       | 6.16       | 6.17       | 6.18       | 6.11       | 6.19       | 6.2        | 5.89       | 6.25       | 6.26       |
| Sulfate               | mg/L  | <1.4                         | <1.4       | --         | <1.4       | <1.4       | 6.01       | 5.29       | 33.1       | 15.8       | 35.4       | 25.7       |
| TDS                   | mg/L  | 284                          | 325        | --         | 306        | 303        | 291        | 293        | 310        | 298        | 318        | 332        |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |            |            |            |            |
| Antimony              | mg/L  | <0.0006                      | --         | <0.0006    | <0.0006    | <0.0008    | <0.0008    | <0.0008    | <0.0008    | <0.0008    | <0.000507  | <0.000508  |
| Arsenic               | mg/L  | 0.0395                       | --         | 0.0536     | 0.0572     | 0.0536     | 0.0482     | 0.0514     | 0.0589     | 0.0629     | 0.0659     | 0.0668     |
| Barium                | mg/L  | 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    | <0.000406  | <0.000406  |
| Cadmium               | mg/L  | <0.0002                      | --         | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <6.8e-005  | <6.8e-005  |
| Chromium              | mg/L  | <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     | 0.000778   | 0.000788   |
| Combined Radium 226 + | pCi/L | 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       |
| Fluoride              | mg/L  | 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      |
| Lead                  | mg/L  | <0.001                       | --         | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <6.8e-005  | <6.8e-005  |
| Lithium               | mg/L  | <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   | <0.0003    | <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     | 0.000321   | 0.000193 J |
| Selenium              | mg/L  | <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    | <6.8e-005  | <6.8e-005  |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |            |            |            |            |  |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--|
|                       |       | BY-AP-MW-8                   |            |            | BY-AP-MW-9 |            |            |            |            |            |            |            |  |
|                       |       | 05/24/2022                   | 11/02/2022 | 04/03/2023 | 03/01/2016 | 04/20/2016 | 06/08/2016 | 08/31/2016 | 10/19/2016 | 02/01/2017 | 03/22/2017 | 05/03/2017 |  |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |            |            |            |            |  |
| Boron                 | mg/L  | 1.12                         | 1.63       | 0.129      | 1.79       | 2.01       | 2.23       | 2.14       | 2.13       | 2.17       | --         | 2.28       |  |
| Calcium               | mg/L  | 31.5                         | 31         | 4.21       | 40.3       | 38.2       | 39.2       | 38.2       | 38.7       | 39.2       | --         | 39.1       |  |
| Chloride              | mg/L  | 27.2                         | 26.6       | 10.8       | 20.4       | 22.7       | 25.3       | 24.4       | 23         | --         | 26         | 26         |  |
| Fluoride              | mg/L  | 0.0713 J                     | <0.06      | 0.0706 J   | 0.04 J     | 0.052 J    | 0.077 J    | 0.056 J    | 0.045 J    | --         | 0.05 J     | 0.06 J     |  |
| pH_Field              | SU    | 5.6                          | 6.28       | 6.34       | 6.26       | 6.26       | 6.25       | 6.29       | 6.22       | 6.24       | 6.28       | 6.17       |  |
| Sulfate               | mg/L  | 81.3                         | 7.58       | 32.1       | <0.3       | <0.3       | 0.51 J     | <0.3       | <0.3       | --         | <1.4       | 2.7 J      |  |
| TDS                   | mg/L  | 254                          | 293        | 107        | 314        | 338        | 288        | 334        | 333        | 330        | --         | 338        |  |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |            |            |            |            |  |
| Antimony              | mg/L  | <0.000508                    | <0.000508  | <0.00071   | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | 0.000738 J | --         | <0.0006    |  |
| Arsenic               | mg/L  | 0.0583                       | 0.0412     | 0.00353    | 0.0322     | 0.0354     | 0.0385     | 0.0404     | 0.0412     | 0.0374     | --         | 0.0444     |  |
| Barium                | mg/L  | 0.148                        | 0.149      | 0.0232     | 0.114      | 0.114      | 0.128      | 0.123      | 0.118      | 0.104      | --         | 0.126      |  |
| Beryllium             | mg/L  | <0.000406                    | <0.000406  | <0.000406  | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | --         | <0.0006    |  |
| Cadmium               | mg/L  | <6.8e-005                    | <6.8e-005  | <6.8e-005  | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | --         | <0.0002    |  |
| Chromium              | mg/L  | 0.00129                      | 0.000888 J | 0.000805 J | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     |  |
| Cobalt                | mg/L  | 0.000666                     | 0.00059    | 0.000149 J | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     |  |
| Combined Radium 226 + | pCi/L | 0.733 U                      | 0.503 U    | 1.21       | 1.5514 U   | 1 U        | 0.837      | 0.917      | 1.41       | 0.785      | --         | 1.33       |  |
| Fluoride              | mg/L  | 0.0713 J                     | <0.06      | 0.0706 J   | 0.04 J     | 0.052 J    | 0.077 J    | 0.056 J    | 0.045 J    | --         | 0.05 J     | 0.06 J     |  |
| Lead                  | mg/L  | <6.8e-005                    | <6.8e-005  | <6.8e-005  | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | --         | <0.001     |  |
| Lithium               | mg/L  | <0.007105                    | <0.007105  | <0.007105  | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | --         | <0.01      |  |
| Mercury               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.00025   | <0.00025   | <0.00025   | <0.00025   | <0.00025   | <0.00025   | --         | <0.00025   |  |
| Molybdenum            | mg/L  | 0.000234                     | 0.000193 J | <0.005075  | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     |  |
| Selenium              | mg/L  | <0.000508                    | <0.000508  | <0.000508  | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     |  |
| Thallium              | mg/L  | <6.8e-005                    | <6.8e-005  | <6.8e-005  | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | --         | <0.0002    |  |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |            |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                       |       | BY-AP-MW-9                   |            |            |            |            |            |            |            |            |            |            |
|                       |       | 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 |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |            |            |            |            |
| Boron                 | mg/L  | 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                         | 40.7       | --         | 40         | 39.7       | 38.3       | 39.9       | 40.1       | 38         | 40.5       | 40.3       |
| Chloride              | mg/L  | 27                           | 24         | --         | 22         | 23         | 27.3       | 21.7       | 20.6       | 18.5       | 18.3       | 19.1       |
| Fluoride              | mg/L  | 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    | 6.24                         | 6.24       | 6.3        | 6.31       | 6.32       | 6.14       | 6.07       | 6.31       | 5.97       | 6.3        | 6.13       |
| Sulfate               | mg/L  | <1.4                         | <1.4       | --         | <1.4       | 1.4 J      | 4.69       | 3.77       | 43.5       | 21.9       | 27.7       | 6.33       |
| TDS                   | mg/L  | 300                          | 350        | --         | 333        | 330        | 316        | 319        | 330        | 301        | 314        | 302        |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |            |            |            |            |
| Antimony              | mg/L  | <0.0006                      | --         | <0.0006    | <0.0006    | <0.0008    | <0.0008    | <0.0008    | <0.0008    | <0.0008    | <0.000507  | <0.000508  |
| Arsenic               | mg/L  | 0.0423                       | --         | 0.0435     | 0.0437     | 0.0422     | 0.0383     | 0.0391     | 0.0393     | 0.0432     | 0.0435     | 0.0468     |
| Barium                | mg/L  | 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    | <0.000406  | <0.000406  |
| Cadmium               | mg/L  | <0.0002                      | --         | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <6.8e-005  | <6.8e-005  |
| Chromium              | mg/L  | <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     | 0.000725   | 0.000702   |
| Combined Radium 226 + | pCi/L | 0.758                        | --         | 1.06 U     | 0.983      | 0.747      | 1.08       | 0.58       | 0.82       | 2.25       | 0.98 U     | 1.07 U     |
| Fluoride              | mg/L  | 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   |
| Lead                  | mg/L  | <0.001                       | --         | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <6.8e-005  | <6.8e-005  |
| Lithium               | mg/L  | <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   | <0.0003    | <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     | 0.00022    | 0.000214   |
| Selenium              | mg/L  | <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    | <6.8e-005  | <6.8e-005  |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |             |            |            |            |            |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|------------|
|                       |       | BY-AP-MW-9                   |            |            | BY-AP-MW-10 |            |            |            |            |            |            |            |
|                       |       | 05/24/2022                   | 10/31/2022 | 04/04/2023 | 03/01/2016  | 04/20/2016 | 06/08/2016 | 08/31/2016 | 10/19/2016 | 02/01/2017 | 03/22/2017 | 05/03/2017 |
| <b>Appendix III</b>   |       |                              |            |            |             |            |            |            |            |            |            |            |
| Boron                 | mg/L  | 2.01                         | 2.3        | 1.65       | 1.39        | 1.51       | 1.62       | 1.73       | 1.77       | 1.42       | --         | 1.52       |
| Calcium               | mg/L  | 39.6                         | 35.3       | 32.4       | 50.6        | 49.1       | 48.7       | 57.9       | 52.2       | 47.6       | --         | 51.3       |
| Chloride              | mg/L  | 17.3                         | 25.1       | 18         | 19.6        | 18.8       | 18.6       | 18.5       | 18.7       | --         | 21         | 22         |
| Fluoride              | mg/L  | <0.06                        | 0.0788 J   | 0.0797 J   | 0.02 J      | 0.034 J    | 0.061 J    | 0.04 J     | 0.03 J     | --         | <0.032     | 0.04 J     |
| pH_Field              | SU    | 6.03                         | 6.26       | 6.15       | 6.33        | 6.31       | 6.34       | 6.35       | 6.35       | 6.27       | 6.29       | 6.23       |
| Sulfate               | mg/L  | 5.76                         | 11.4       | 24.2       | 0.34 J      | <0.3       | 0.538 J    | <0.3       | <0.3       | --         | <1.4       | 4.1 J      |
| TDS                   | mg/L  | 268                          | 329        | 317        | 326         | 366        | 314        | 368        | 381        | 342        | --         | 369        |
| <b>Appendix IV</b>    |       |                              |            |            |             |            |            |            |            |            |            |            |
| Antimony              | mg/L  | <0.000508                    | <0.000508  | <0.00071   | <0.0006     | <0.0006    | <0.0006    | <0.0006    | <0.0006    | 0.000743 J | --         | <0.0006    |
| Arsenic               | mg/L  | 0.0404                       | 0.0252     | 0.0165     | 0.0264      | 0.0303     | 0.0306     | 0.0304     | 0.0314     | 0.0274     | --         | 0.03       |
| Barium                | mg/L  | 0.117                        | 0.122      | 0.127      | 0.0634      | 0.0622     | 0.0642     | 0.063      | 0.0577     | 0.0607     | --         | 0.0665     |
| Beryllium             | mg/L  | <0.000406                    | <0.000406  | <0.000406  | <0.0006     | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | --         | <0.0006    |
| Cadmium               | mg/L  | <6.8e-005                    | <6.8e-005  | <6.8e-005  | <0.0002     | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | --         | <0.0002    |
| Chromium              | mg/L  | 0.000701 J                   | 0.000692 J | 0.000525 J | <0.002      | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     |
| Cobalt                | mg/L  | 0.000753                     | 0.000698   | 0.000723   | <0.002      | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     |
| Combined Radium 226 + | pCi/L | 2.11                         | 1.64       | 1.05 U     | 1 U         | 1 U        | 1.06       | 0.871      | 1.9        | 1          | --         | 1.07       |
| Fluoride              | mg/L  | <0.06                        | 0.0788 J   | 0.0797 J   | 0.02 J      | 0.034 J    | 0.061 J    | 0.04 J     | 0.03 J     | --         | <0.032     | 0.04 J     |
| Lead                  | mg/L  | <6.8e-005                    | <6.8e-005  | <6.8e-005  | <0.001      | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | --         | <0.001     |
| Lithium               | mg/L  | <0.007105                    | <0.007105  | <0.007105  | <0.1        | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | --         | <0.01      |
| Mercury               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.00025    | <0.00025   | <0.00025   | <0.00025   | <0.00025   | <0.00025   | --         | <0.00025   |
| Molybdenum            | mg/L  | 0.000206                     | 0.000201 J | <0.005075  | <0.002      | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     |
| Selenium              | mg/L  | <0.000508                    | <0.000508  | <0.000508  | <0.002      | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     |
| Thallium              | mg/L  | <6.8e-005                    | <6.8e-005  | <6.8e-005  | <0.0002     | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | --         | <0.0002    |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |            |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                       |       | BY-AP-MW-10                  |            |            |            |            |            |            |            |            |            |            |
|                       |       | 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 |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |            |            |            |            |
| Boron                 | mg/L  | 1.52                         | 1.96       | --         | 2          | 2          | 2.11       | 2.02       | 2.12       | 2.02       | 1.99       | 2.39       |
| Calcium               | mg/L  | 51.4                         | 54.9       | --         | 53.3       | 54.2       | 60.5       | 63.1       | 63.6       | 57.2       | 62.7       | 64.2       |
| Chloride              | mg/L  | 22                           | 22         | --         | 23         | 25         | 25.9       | 25.7       | 26.1       | 25         | 27.3       | 27.2       |
| Fluoride              | mg/L  | 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    | 6.27                         | 6.27       | 6.32       | 6.36       | 6.32       | 6.23       | 6.11       | 6.37       | 6.33       | 6.4        | 5.91       |
| Sulfate               | mg/L  | <1.4                         | <1.4       | --         | <1.4       | <1.4       | 3.76       | 2.77       | 20.1       | 15.6       | 13.2       | 5.72       |
| TDS                   | mg/L  | 340                          | 391        | --         | 343        | 378        | 377        | 361        | 387        | 392        | 391        | 373        |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |            |            |            |            |
| Antimony              | mg/L  | <0.0006                      | --         | <0.0006    | <0.0006    | <0.0008    | <0.0008    | <0.0008    | <0.0008    | <0.0008    | <0.000507  | <0.000508  |
| Arsenic               | mg/L  | 0.0303                       | --         | 0.0362     | 0.0433     | 0.0536     | 0.0671     | 0.0704     | 0.0702     | 0.0763     | 0.0762     | 0.0705     |
| Barium                | mg/L  | 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    | <0.000406  | <0.000406  |
| Cadmium               | mg/L  | <0.0002                      | --         | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <6.8e-005  | <6.8e-005  |
| Chromium              | mg/L  | <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     | 0.000636   | 0.000645   |
| Combined Radium 226 + | pCi/L | 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      |
| Fluoride              | mg/L  | 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      |
| Lead                  | mg/L  | <0.001                       | --         | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <6.8e-005  | <6.8e-005  |
| Lithium               | mg/L  | <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   | <0.0003    | <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     | <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     | <0.000507  | <0.000508  |
| Thallium              | mg/L  | <0.0002                      | --         | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <6.8e-005  | <6.8e-005  |

**Notes:**

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





**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |             |            |            |            |            |            |            |            |  |
|-----------------------|-------|------------------------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|------------|--|
|                       |       | BY-AP-MW-10                  |            |            | BY-AP-MW-11 |            |            |            |            |            |            |            |  |
|                       |       | 05/24/2022                   | 11/02/2022 | 04/03/2023 | 03/01/2016  | 04/20/2016 | 06/08/2016 | 08/31/2016 | 10/19/2016 | 02/01/2017 | 03/22/2017 | 05/03/2017 |  |
| <b>Appendix III</b>   |       |                              |            |            |             |            |            |            |            |            |            |            |  |
| Boron                 | mg/L  | 2.34                         | 2.02       | 2.23       | 0.0482 J    | 0.059 J    | 0.0568 J   | 0.0651 J   | 0.06 J     | 0.0638 J   | --         | 0.0655 J   |  |
| Calcium               | mg/L  | 62.6                         | 58.4       | 46.2       | 35.3        | 28.9       | 27.6       | 25.4       | 25.7       | 25.6       | --         | 24         |  |
| Chloride              | mg/L  | 30.8                         | 25.1       | 29.7       | 21.7        | 20.7       | 20.4       | 20.3       | 20.3       | --         | 27         | 27         |  |
| Fluoride              | mg/L  | <0.06                        | <0.06      | <0.06      | 0.06 J      | 0.073 J    | 0.085 J    | 0.064 J    | 0.05 J     | --         | 0.05 J     | 0.06 J     |  |
| pH_Field              | SU    | 5.81                         | 6.39       | 6.05       | 6.34        | 6.31       | 6.33       | 6.29       | 6.26       | 6.22       | 6.22       | 6.15       |  |
| Sulfate               | mg/L  | 5.93                         | 10.2       | 15         | 1.02        | 1.1        | 0.701 J    | <0.3       | <0.3       | --         | 2.1 J      | 3.6 J      |  |
| TDS                   | mg/L  | 357                          | 344        | 370        | 395         | 376        | 324        | 367        | 367        | 391        | --         | 373        |  |
| <b>Appendix IV</b>    |       |                              |            |            |             |            |            |            |            |            |            |            |  |
| Antimony              | mg/L  | <0.000508                    | <0.000508  | <0.00071   | <0.0006     | <0.0006    | <0.0006    | <0.0006    | <0.0006    | 0.000812 J | --         | <0.0006    |  |
| Arsenic               | mg/L  | 0.0775                       | 0.0721     | 0.0561     | 0.01        | 0.0127     | 0.0136     | 0.0149     | 0.0149     | 0.0151     | --         | 0.0155     |  |
| Barium                | mg/L  | 0.0618                       | 0.0589     | 0.0628     | 0.122       | 0.11       | 0.105      | 0.102      | 0.0953     | 0.0917     | --         | 0.0951     |  |
| Beryllium             | mg/L  | <0.000406                    | <0.000406  | <0.000406  | <0.0006     | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | --         | <0.0006    |  |
| Cadmium               | mg/L  | <6.8e-005                    | <6.8e-005  | <6.8e-005  | <0.0002     | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | --         | <0.0002    |  |
| Chromium              | mg/L  | 0.000522 J                   | 0.000642 J | 0.00066 J  | 0.00213 J   | 0.00214 J  | 0.00205 J  | 0.00221 J  | 0.00213 J  | 0.00228 J  | --         | 0.00229 J  |  |
| Cobalt                | mg/L  | 0.000543                     | 0.000583   | 0.000622   | <0.002      | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     |  |
| Combined Radium 226 + | pCi/L | 1.36 U                       | 0.886 U    | 0.75 U     | 1 U         | 0.667      | 0.704      | 0.726      | 0.737      | 0.766      | --         | 0.515      |  |
| Fluoride              | mg/L  | <0.06                        | <0.06      | <0.06      | 0.06 J      | 0.073 J    | 0.085 J    | 0.064 J    | 0.05 J     | --         | 0.05 J     | 0.06 J     |  |
| Lead                  | mg/L  | <6.8e-005                    | <6.8e-005  | <6.8e-005  | <0.001      | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | --         | <0.001     |  |
| Lithium               | mg/L  | <0.007105                    | <0.007105  | <0.007105  | <0.01       | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | --         | <0.01      |  |
| Mercury               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.00025    | <0.00025   | <0.00025   | <0.00025   | <0.00025   | <0.00025   | --         | <0.00025   |  |
| Molybdenum            | mg/L  | <0.000102                    | <0.000102  | <0.005075  | <0.002      | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     |  |
| Selenium              | mg/L  | <0.000508                    | <0.000508  | <0.000508  | <0.002      | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | --         | <0.002     |  |
| Thallium              | mg/L  | <6.8e-005                    | <6.8e-005  | <6.8e-005  | <0.0002     | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | --         | <0.0002    |  |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |            |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                       |       | BY-AP-MW-11                  |            |            |            |            |            |            |            |            |            |            |
|                       |       | 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 |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |            |            |            |            |
| Boron                 | mg/L  | 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  | 25.2                         | 25.5       | --         | 25.2       | 24.6       | 23.9       | 24.6       | 25.1       | 23.9       | 41.5       | 25.8       |
| Chloride              | mg/L  | 24                           | 26         | --         | 23         | 25         | 27.8       | 25         | 24.1       | 23.2       | 23.1       | 25.1       |
| Fluoride              | mg/L  | 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    | 6.21                         | 6.26       | 6.28       | 6.33       | 6.28       | 6.24       | 5.85       | 6.26       | 5.87       | 6.33       | 5.84       |
| Sulfate               | mg/L  | <1.4                         | <1.4       | --         | <1.4       | <1.4       | 24.1       | 37.4       | 57.5       | 42.8       | 16.5       | 133        |
| TDS                   | mg/L  | 367                          | 378        | --         | 330        | 357        | 367        | 399        | 393        | 399        | 422        | 390        |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |            |            |            |            |
| Antimony              | mg/L  | <0.0006                      | --         | <0.0006    | <0.0006    | <0.0008    | <0.0008    | <0.0008    | <0.0008    | <0.0008    | <0.000507  | <0.000508  |
| Arsenic               | mg/L  | 0.0145                       | --         | 0.0154     | 0.0158     | 0.014      | 0.0132     | 0.0145     | 0.0158     | 0.0165     | 0.0166     | 0.0161     |
| Barium                | mg/L  | 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    | <0.000406  | <0.000406  |
| Cadmium               | mg/L  | <0.0002                      | --         | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <6.8e-005  | <6.8e-005  |
| Chromium              | mg/L  | 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     | 0.00257    | 0.00118    |
| Combined Radium 226 + | pCi/L | 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    |
| Fluoride              | mg/L  | 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      |
| Lead                  | mg/L  | <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      | 0.0384 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   | <0.0003    | <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     | 0.00652    | 0.00161    |
| Selenium              | mg/L  | <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    | <6.8e-005  | <6.8e-005  |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |             |            |            |            |            |            |            |            |  |
|-----------------------|-------|------------------------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|------------|--|
|                       |       | BY-AP-MW-11                  |            |            | BY-AP-MW-12 |            |            |            |            |            |            |            |  |
|                       |       | 05/23/2022                   | 11/01/2022 | 04/04/2023 | 03/02/2016  | 04/20/2016 | 06/07/2016 | 06/08/2016 | 08/31/2016 | 10/19/2016 | 02/01/2017 | 03/22/2017 |  |
| <b>Appendix III</b>   |       |                              |            |            |             |            |            |            |            |            |            |            |  |
| Boron                 | mg/L  | 0.0558 J                     | 0.051 J    | 0.0581 J   | 0.0502 J    | 0.0672 J   | --         | 0.0659 J   | 0.065 J    | 0.0721 J   | 0.06 J     | --         |  |
| Calcium               | mg/L  | 26                           | 26.4       | 26         | 21          | 20.1       | --         | 20.2       | 19.9       | 20.4       | 20.9       | --         |  |
| Chloride              | mg/L  | 25.1                         | 22.7       | 28.9       | 22.2        | 21.7       | --         | 22         | 22.3       | 20.8       | --         | 23         |  |
| Fluoride              | mg/L  | 0.0709 J                     | 0.0612 J   | 0.126      | 0.04 J      | 0.059 J    | --         | 0.08 J     | 0.059 J    | 0.045 J    | --         | 0.04 J     |  |
| pH_Field              | SU    | 6.32                         | 6.28       | 6.27       | 6.16        | 6.17       | --         | 6.25       | 6.23       | 6.2        | 6.08       | 6.12       |  |
| Sulfate               | mg/L  | 29.3                         | 47.7       | 84.3       | <0.3        | <0.3       | --         | 0.511 J    | <0.3       | <0.3       | --         | <1.4       |  |
| TDS                   | mg/L  | 404                          | 419        | 392        | 351         | 353        | --         | 330        | 354        | 354        | 360        | --         |  |
| <b>Appendix IV</b>    |       |                              |            |            |             |            |            |            |            |            |            |            |  |
| Antimony              | mg/L  | <0.000508                    | <0.000508  | <0.00071   | <0.0006     | <0.0006    | --         | <0.0006    | <0.0006    | <0.0006    | 0.000838 J | --         |  |
| Arsenic               | mg/L  | 0.0142                       | 0.0152     | 0.0128     | 0.0215      | 0.0214     | --         | 0.0221     | 0.0223     | 0.0227     | 0.0215     | --         |  |
| Barium                | mg/L  | 0.0697                       | 0.078      | 0.0699     | 0.0815      | 0.0692     | --         | 0.0763     | 0.0741     | 0.0727     | 0.0701     | --         |  |
| Beryllium             | mg/L  | <0.000406                    | <0.000406  | <0.000406  | <0.0006     | <0.0006    | --         | <0.0006    | <0.0006    | <0.0006    | <0.0006    | --         |  |
| Cadmium               | mg/L  | <6.8e-005                    | <6.8e-005  | <6.8e-005  | <0.0002     | <0.0002    | --         | <0.0002    | <0.0002    | <0.0002    | <0.0002    | --         |  |
| Chromium              | mg/L  | 0.00474                      | 0.00274    | 0.00254    | 0.0042 J    | 0.0034 J   | --         | 0.00308 J  | 0.0032 J   | 0.0035 J   | 0.00371 J  | --         |  |
| Cobalt                | mg/L  | 0.00118                      | 0.000958   | 0.000946   | 0.00235 J   | 0.00212 J  | --         | 0.00276 J  | 0.00261 J  | 0.00256 J  | 0.00231 J  | --         |  |
| Combined Radium 226 + | pCi/L | 0.452 U                      | 1.03       | 0.562 U    | 1 U         | 1 U        | 1.08       | --         | 0.528      | 0.81       | 1.11       | --         |  |
| Fluoride              | mg/L  | 0.0709 J                     | 0.0612 J   | 0.126      | 0.04 J      | 0.059 J    | --         | 0.08 J     | 0.059 J    | 0.045 J    | --         | 0.04 J     |  |
| Lead                  | mg/L  | 0.000107 J                   | <6.8e-005  | <6.8e-005  | <0.001      | <0.001     | --         | <0.001     | <0.001     | <0.001     | <0.001     | --         |  |
| Lithium               | mg/L  | 0.0269                       | 0.016 J    | 0.034      | <0.01       | <0.01      | --         | <0.01      | <0.01      | <0.01      | <0.01      | --         |  |
| Mercury               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.00025    | <0.00025   | --         | <0.00025   | <0.00025   | <0.00025   | <0.00025   | --         |  |
| Molybdenum            | mg/L  | 0.00149                      | 0.000888   | <0.005075  | <0.002      | <0.002     | --         | <0.002     | <0.002     | <0.002     | <0.002     | --         |  |
| Selenium              | mg/L  | <0.000508                    | <0.000508  | <0.000508  | <0.002      | <0.002     | --         | <0.002     | <0.002     | <0.002     | <0.002     | --         |  |
| Thallium              | mg/L  | <6.8e-005                    | <6.8e-005  | <6.8e-005  | <0.0002     | <0.0002    | --         | <0.0002    | <0.0002    | <0.0002    | <0.0002    | --         |  |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |            |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                       |       | BY-AP-MW-12                  |            |            |            |            |            |            |            |            |            |            |
|                       |       | 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 |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |            |            |            |            |
| Boron                 | mg/L  | 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   |
| Calcium               | mg/L  | 20.9                         | 21.2       | 22.1       | --         | 22.2       | 22.1       | 21.4       | 23.1       | 22.4       | 22.2       | 23.1       |
| Chloride              | mg/L  | 25                           | 23         | 23         | --         | 21         | 23         | 24.1       | 26.1       | 23.9       | 23.4       | 25.4       |
| Fluoride              | mg/L  | 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   |
| pH_Field              | SU    | 6.12                         | 6.13       | 6.19       | 6.17       | 6.15       | 6.11       | 6.13       | 6          | 6.21       | 6.19       | 5.58       |
| Sulfate               | mg/L  | 2.1 J                        | 5          | <1.4       | --         | <1.4       | <14        | 7.04       | 35.3       | 35.8       | 32.1       | 25.1       |
| TDS                   | mg/L  | 341                          | 337        | 359        | --         | 310        | 336        | 321        | 344        | 331        | 356        | 332        |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |            |            |            |            |
| Antimony              | mg/L  | <0.0006                      | <0.0006    | --         | <0.0006    | <0.0006    | <0.0008    | <0.0008    | <0.0008    | <0.0008    | <0.0008    | <0.000507  |
| Arsenic               | mg/L  | 0.0227                       | 0.0211     | --         | 0.0227     | 0.0239     | 0.0216     | 0.0215     | 0.0221     | 0.0246     | 0.0246     | 0.0237     |
| Barium                | mg/L  | 0.078                        | 0.0682     | --         | 0.0744     | 0.0814     | 0.0788     | 0.0769     | 0.0795     | 0.0851     | 0.0827     | 0.0902     |
| Beryllium             | mg/L  | <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    | --         | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <6.8e-005  |
| Chromium              | mg/L  | 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    |
| Cobalt                | mg/L  | 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    |
| Combined Radium 226 + | pCi/L | 0.639                        | 0.705      | --         | 1.1 U      | 1.11       | 0.846      | 2.06       | 0.984      | 1.26       | 1.2        | 1.11       |
| Fluoride              | mg/L  | 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   |
| Lead                  | mg/L  | <0.001                       | <0.001     | --         | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | 0.000326   |
| Lithium               | mg/L  | <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   | <0.0003    | <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     | 0.000947   |
| Selenium              | mg/L  | <0.002                       | <0.002     | --         | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.000507  |
| Thallium              | mg/L  | <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. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |             |            |            |            |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|
|                       |       | BY-AP-MW-12                  |            |            |            | BY-AP-MW-13 |            |            |            |            |            |            |
|                       |       | 11/01/2021                   | 05/23/2022 | 11/01/2022 | 04/04/2023 | 03/02/2016  | 04/20/2016 | 06/07/2016 | 06/08/2016 | 08/31/2016 | 10/19/2016 | 01/31/2017 |
| <b>Appendix III</b>   |       |                              |            |            |            |             |            |            |            |            |            |            |
| Boron                 | mg/L  | 0.0769 J                     | 0.0626 J   | 0.0573 J   | 0.0613 J   | 0.0328 J    | 0.0434 J   | --         | 0.0391 J   | 0.0401 J   | 0.0427 J   | 0.034 J    |
| Calcium               | mg/L  | 21.8                         | 20.8       | 22.5       | 23         | 16.7        | 13.1       | --         | 11.7       | 11.3       | 11.8       | 12.5       |
| Chloride              | mg/L  | 27.4                         | 26.2       | 24.9       | 25         | 47.3        | 40.5       | --         | 37.2       | 38.2       | 39.4       | --         |
| Fluoride              | mg/L  | 0.0928 J                     | 0.0873 J   | 0.0694 J   | 0.081 J    | 0.05 J      | 0.064 J    | --         | 0.082 J    | 0.062 J    | 0.049 J    | --         |
| pH_Field              | SU    | 5.75                         | 6.12       | 6.21       | 5.76       | 6.1         | 6.14       | --         | 6.11       | 6.1        | 6.1        | 6.07       |
| Sulfate               | mg/L  | 27                           | 13         | 15.3       | 39.6       | <0.3        | <0.3       | --         | 0.496 J    | <0.3       | <0.3       | --         |
| TDS                   | mg/L  | 349                          | 345        | 359        | 334        | 319         | 305        | --         | 287        | 295        | 305        | 325        |
| <b>Appendix IV</b>    |       |                              |            |            |            |             |            |            |            |            |            |            |
| Antimony              | mg/L  | <0.000508                    | <0.000508  | <0.000508  | <0.00071   | <0.0006     | <0.0006    | --         | 0.00111 J  | <0.0006    | <0.0006    | 0.000834 J |
| Arsenic               | mg/L  | 0.0245                       | 0.0249     | 0.022      | 0.0218     | 0.0115      | 0.0123     | --         | 0.0121     | 0.0127     | 0.0131     | 0.0131     |
| Barium                | mg/L  | 0.0823                       | 0.0802     | 0.0783     | 0.0727     | 0.0947      | 0.0758     | --         | 0.071      | 0.0722     | 0.0707     | 0.0686     |
| Beryllium             | mg/L  | <0.000406                    | <0.000406  | <0.000406  | <0.000406  | <0.0006     | <0.0006    | --         | <0.0006    | <0.0006    | <0.0006    | <0.0006    |
| Cadmium               | mg/L  | <6.8e-005                    | <6.8e-005  | <6.8e-005  | <6.8e-005  | <0.0002     | <0.0002    | --         | <0.0002    | <0.0002    | <0.0002    | <0.0002    |
| Chromium              | mg/L  | 0.00423                      | 0.0029     | 0.0028     | 0.0034     | 0.00656 J   | 0.00661 J  | --         | 0.0067 J   | 0.00693 J  | 0.00732 J  | 0.00699 J  |
| Cobalt                | mg/L  | 0.0037                       | 0.00414    | 0.00406    | 0.00309    | <0.002      | <0.002     | --         | <0.002     | <0.002     | <0.002     | <0.002     |
| Combined Radium 226 + | pCi/L | 1.79                         | 1.4        | 0.672 U    | 1.42       | 1 U         | 0.398      | 0.812      | --         | 0.46 U     | 0.601      | 1.1        |
| Fluoride              | mg/L  | 0.0928 J                     | 0.0873 J   | 0.0694 J   | 0.081 J    | 0.05 J      | 0.064 J    | --         | 0.082 J    | 0.062 J    | 0.049 J    | --         |
| Lead                  | mg/L  | 0.000292                     | <6.8e-005  | <6.8e-005  | <6.8e-005  | <0.001      | <0.001     | --         | <0.001     | <0.001     | <0.001     | <0.001     |
| Lithium               | mg/L  | <0.007105                    | <0.007105  | <0.007105  | <0.007105  | <0.01       | <0.01      | --         | <0.01      | <0.01      | <0.01      | <0.01      |
| Mercury               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.0003    | <0.00025    | <0.00025   | --         | <0.00025   | <0.00025   | <0.00025   | <0.00025   |
| Molybdenum            | mg/L  | 0.000985                     | 0.00109    | 0.000936   | <0.005075  | <0.002      | <0.002     | --         | <0.002     | <0.002     | <0.002     | <0.002     |
| Selenium              | mg/L  | <0.000508                    | <0.000508  | <0.000508  | <0.000508  | <0.002      | <0.002     | --         | <0.002     | <0.002     | <0.002     | <0.002     |
| Thallium              | mg/L  | <6.8e-005                    | <6.8e-005  | <6.8e-005  | <6.8e-005  | <0.0002     | <0.0002    | --         | <0.0002    | <0.0002    | <0.0002    | <0.0002    |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |            |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                       |       | BY-AP-MW-13                  |            |            |            |            |            |            |            |            |            |            |
|                       |       | 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 |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |            |            |            |            |
| Boron                 | mg/L  | --                           | 0.0416 J   | 0.0277 J   | 0.044 J    | --         | 0.0393 J   | 0.0417 J   | 0.0528 J   | 0.06 J     | 0.0505 J   | 0.0642 J   |
| Calcium               | mg/L  | --                           | 12         | 12.8       | 13.3       | --         | 13.8       | 15.2       | 12.8       | 13.4       | 13.2       | 12.3       |
| Chloride              | mg/L  | 49                           | 48         | 49         | 42         | --         | 47         | 43         | 44         | 39         | 44.9       | 39.1       |
| Fluoride              | mg/L  | 0.05 J                       | 0.06 J     | 0.07 J     | 0.07 J     | 0.06 J     | 0.07 J     | 0.05 J     | 0.0679 J   | 0.0703 J   | 0.0665 J   | 0.0757 J   |
| pH_Field              | SU    | 6.07                         | 6.1        | 6.07       | 6.12       | 6.12       | 6.13       | 6.04       | 6.01       | 6.02       | 5.98       | 5.82       |
| Sulfate               | mg/L  | 6.9                          | 6.6        | 6          | 2.2 J      | --         | 4.1 J      | 4.9 J      | 49.5       | 48.1       | 23.2       | 14.2       |
| TDS                   | mg/L  | --                           | 306        | 320        | 332        | --         | 320        | 304        | 307        | 290        | 290        | 285        |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |            |            |            |            |
| Antimony              | mg/L  | --                           | <0.0006    | 0.000857 J | --         | <0.0006    | <0.0006    | <0.0008    | <0.0008    | <0.0008    | <0.0008    | <0.0008    |
| Arsenic               | mg/L  | --                           | 0.014      | 0.0141     | --         | 0.0149     | 0.0175     | 0.0141     | 0.0138     | 0.0144     | 0.0154     | 0.0148     |
| Barium                | mg/L  | --                           | 0.0756     | 0.0695     | --         | 0.0688     | 0.0806     | 0.0697     | 0.0704     | 0.0696     | 0.0728     | 0.0722     |
| Beryllium             | mg/L  | --                           | <0.0006    | 0.00103 J  | --         | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    |
| Cadmium               | mg/L  | --                           | <0.0002    | 0.00077 J  | --         | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    |
| Chromium              | mg/L  | --                           | 0.00712 J  | 0.00752 J  | --         | 0.00729 J  | 0.00642 J  | 0.0068 J   | 0.00727 J  | 0.00764 J  | 0.00955 J  | 0.00888 J  |
| Cobalt                | mg/L  | --                           | <0.002     | <0.002     | --         | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     |
| Combined Radium 226 + | pCi/L | --                           | 0.832      | 0.752      | --         | 0.898 U    | 0.752      | 0.523      | 1.01       | 1.07       | 0.725      | 0.698      |
| Fluoride              | mg/L  | 0.05 J                       | 0.06 J     | 0.07 J     | 0.07 J     | 0.06 J     | 0.07 J     | 0.05 J     | 0.0679 J   | 0.0703 J   | 0.0665 J   | 0.0757 J   |
| Lead                  | mg/L  | --                           | <0.001     | <0.001     | --         | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     |
| Lithium               | mg/L  | --                           | <0.01      | <0.01      | --         | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      |
| Mercury               | mg/L  | --                           | <0.00025   | <0.00025   | --         | <0.00025   | <0.00025   | <0.00025   | <0.0003    | <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     |
| Selenium              | mg/L  | --                           | <0.002     | <0.002     | --         | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     |
| Thallium              | mg/L  | --                           | <0.0002    | 0.000878 J | --         | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    |

**Notes:**

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





**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |             |            |            |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|
|                       |       | BY-AP-MW-13                  |            |            |            |            | BY-AP-MW-14 |            |            |            |            |            |
|                       |       | 05/19/2021                   | 10/26/2021 | 05/24/2022 | 11/01/2022 | 04/04/2023 | 03/02/2016  | 04/20/2016 | 06/08/2016 | 08/30/2016 | 10/18/2016 | 01/31/2017 |
| <b>Appendix III</b>   |       |                              |            |            |            |            |             |            |            |            |            |            |
| Boron                 | mg/L  | 0.0604 J                     | 0.0511 J   | 0.0451 J   | 0.0445 J   | 0.0391 J   | 0.0395 J    | 0.0549 J   | 0.0593 J   | 0.0534 J   | 0.0597 J   | 0.0479 J   |
| Calcium               | mg/L  | 12.9                         | 12.3       | 19         | 25.6       | 46.5       | 9.53        | 9.55       | 13.1       | 12.1       | 11.4       | 10.8       |
| Chloride              | mg/L  | 46.8                         | 38.4       | 43.5       | 40.2       | 14.3       | 36.6        | 35.5       | 43.8       | 41.6       | 39.5       | --         |
| Fluoride              | mg/L  | 0.0748 J                     | 0.0641 J   | 0.0769 J   | 0.13       | 0.187      | 0.07 J      | 0.076 J    | 0.105 J    | 0.083 J    | 0.067 J    | --         |
| pH_Field              | SU    | 5.79                         | 5.69       | 5.5        | 6.09       | 6.06       | 6.08        | 6.04       | 6.13       | 6.08       | 6.13       | 6.06       |
| Sulfate               | mg/L  | 50.4                         | 21         | 38.3       | 86.9       | 24.6       | <0.3        | <0.3       | 0.514 J    | <0.3       | <0.3       | --         |
| TDS                   | mg/L  | 300                          | 280        | 257        | 313        | 220        | 266         | 311        | 353        | 328        | 310        | 312        |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |             |            |            |            |            |            |
| Antimony              | mg/L  | <0.000507                    | <0.000508  | <0.000508  | <0.000508  | <0.00071   | <0.0006     | <0.0006    | <0.0006    | <0.0006    | <0.0006    | 0.00086 J  |
| Arsenic               | mg/L  | 0.014                        | 0.013      | 0.013      | 0.0198     | 0.00645    | 0.0101      | 0.0119     | 0.0119     | 0.0127     | 0.0136     | 0.0124     |
| Barium                | mg/L  | 0.0817                       | 0.0667     | 0.0721     | 0.0783     | 0.0528     | 0.0491      | 0.049      | 0.0627     | 0.0635     | 0.0603     | 0.0533     |
| Beryllium             | mg/L  | <0.000406                    | <0.000406  | <0.000406  | <0.000406  | <0.000406  | <0.0006     | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    |
| Cadmium               | mg/L  | <6.8e-005                    | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  | <0.0002     | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    |
| Chromium              | mg/L  | 0.00692                      | 0.00755    | 0.00665    | 0.00677    | 0.00269    | 0.00552 J   | 0.00572 J  | 0.00492 J  | 0.00534 J  | 0.00556 J  | 0.00514 J  |
| Cobalt                | mg/L  | 0.00113                      | 0.00122    | 0.00189    | 0.00265    | 0.000801   | <0.002      | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     |
| Combined Radium 226 + | pCi/L | 1.15                         | 1.74       | 0.915 U    | 0.569 U    | 0.885 U    | 1 U         | 1 U        | 0.631      | 0.693      | 0.626      | 0.0723 U   |
| Fluoride              | mg/L  | 0.0748 J                     | 0.0641 J   | 0.0769 J   | 0.13       | 0.187      | 0.07 J      | 0.076 J    | 0.105 J    | 0.083 J    | 0.067 J    | --         |
| Lead                  | mg/L  | <6.8e-005                    | <6.8e-005  | <6.8e-005  | 0.000151 J | <6.8e-005  | <0.001      | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     |
| Lithium               | mg/L  | <0.007105                    | <0.007105  | <0.007105  | <0.007105  | <0.007105  | <0.01       | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      |
| Mercury               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.00025    | <0.00025   | <0.00025   | <0.00025   | <0.00025   | <0.00025   |
| Molybdenum            | mg/L  | 0.000437                     | 0.000432   | 0.00369    | 0.00585    | 0.0119     | <0.002      | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     |
| Selenium              | mg/L  | <0.000507                    | <0.000508  | <0.000508  | 0.000693 J | 0.00052 J  | <0.002      | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     |
| Thallium              | mg/L  | <6.8e-005                    | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  | <0.0002     | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |            |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                       |       | BY-AP-MW-14                  |            |            |            |            |            |            |            |            |            |            |
|                       |       | 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 |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |            |            |            |            |
| Boron                 | mg/L  | --                           | 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   |
| Calcium               | mg/L  | --                           | 11.9       | 12.2       | 13.9       | --         | 10.6       | 10.8       | 11.2       | 11.4       | 9.04       | 10.8       |
| Chloride              | mg/L  | 46                           | 42         | 44         | 43         | --         | 39         | 43         | 50.1       | 44.8       | 44.7       | 47.2       |
| Fluoride              | mg/L  | 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   |
| pH_Field              | SU    | 6.09                         | 5.94       | 6.1        | 6.11       | 6.12       | 6.13       | 6.07       | 6.07       | 6.01       | 5.76       | 5.8        |
| Sulfate               | mg/L  | <1.4                         | 1.8 J      | 5          | <1.4       | --         | 1.6 J      | <1.4       | 67.6       | 61.6       | 34.7       | 18.5       |
| TDS                   | mg/L  | --                           | 300        | 335        | 339        | --         | 301        | 295        | 318        | 317        | 317        | 327        |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |            |            |            |            |
| Antimony              | mg/L  | --                           | <0.0006    | <0.0006    | --         | <0.0006    | <0.0006    | <0.0008    | <0.0008    | <0.0008    | <0.0008    | <0.0008    |
| Arsenic               | mg/L  | --                           | 0.0131     | 0.0129     | --         | 0.0148     | 0.0156     | 0.0145     | 0.014      | 0.0152     | 0.0177     | 0.0174     |
| Barium                | mg/L  | --                           | 0.0616     | 0.0585     | --         | 0.0608     | 0.0614     | 0.0589     | 0.0617     | 0.0605     | 0.0619     | 0.0687     |
| Beryllium             | mg/L  | --                           | <0.0006    | <0.0006    | --         | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    |
| Cadmium               | mg/L  | --                           | <0.0002    | <0.0002    | --         | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    |
| Chromium              | mg/L  | --                           | 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  |
| Cobalt                | mg/L  | --                           | <0.002     | <0.002     | --         | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     |
| Combined Radium 226 + | pCi/L | --                           | 0.363 U    | 0.198 U    | --         | 0.294 U    | 0.522      | 0.576      | 0.437 U    | 1.11       | 0.941      | 2.12       |
| Fluoride              | mg/L  | 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   |
| Lead                  | mg/L  | --                           | <0.001     | <0.001     | --         | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     |
| Lithium               | mg/L  | --                           | <0.01      | <0.01      | --         | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      |
| Mercury               | mg/L  | --                           | <0.00025   | <0.00025   | --         | <0.00025   | <0.00025   | <0.00025   | <0.0003    | <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     |
| Selenium              | mg/L  | --                           | <0.002     | <0.002     | --         | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     |
| Thallium              | mg/L  | --                           | <0.0002    | <0.0002    | --         | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |             |            |            |            |             |            |            |            |            |            |
|-----------------------|-------|------------------------------|-------------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|
|                       |       | BY-AP-MW-14                  |             |            |            |            | BY-AP-MW-15 |            |            |            |            |            |
|                       |       | 05/25/2021                   | 10/27/2021  | 05/25/2022 | 11/01/2022 | 04/05/2023 | 03/02/2016  | 04/19/2016 | 06/08/2016 | 08/31/2016 | 10/19/2016 | 01/31/2017 |
| <b>Appendix III</b>   |       |                              |             |            |            |            |             |            |            |            |            |            |
| Boron                 | mg/L  | 0.074 J                      | 0.0677 J    | 0.0649 J   | 0.0519 J   | 0.0592 J   | 0.0447 J    | 0.0645 J   | 0.0592 J   | 0.0632 J   | 0.0637 J   | 0.0536 J   |
| Calcium               | mg/L  | 11.2                         | 11.4        | 11.4       | 10.9       | 9.67       | 6.61        | 5.97       | 6.36       | 6.28       | 6.57       | 6.77       |
| Chloride              | mg/L  | 52.1                         | 42.9        | 45.3       | 53.1       | 47         | 20.9        | 19.8       | 24         | 28         | 21.3       | --         |
| Fluoride              | mg/L  | 0.0957 J                     | 0.0651 J    | 0.0733 J   | 0.0685 J   | 0.127      | 0.18 J      | 0.21 J     | 0.223 J    | 0.196 J    | 0.166 J    | --         |
| pH_Field              | SU    | 5.82                         | 6.41        | 6.14       | 5.93       | 5.93       | 6.61        | 6.75       | 6.63       | 6.71       | 6.66       | 6.73       |
| Sulfate               | mg/L  | 59.2                         | 98.5        | 105        | 86.1       | 112        | <0.3        | <0.3       | 0.489 J    | <0.3       | <0.3       | --         |
| TDS                   | mg/L  | 318                          | 327         | 328        | 347        | 316        | 182         | 151        | 168        | 188        | 180        | 166        |
| <b>Appendix IV</b>    |       |                              |             |            |            |            |             |            |            |            |            |            |
| Antimony              | mg/L  | <0.000507                    | <0.000508   | <0.000508  | <0.000508  | <0.00071   | <0.0006     | <0.0006    | <0.0006    | <0.0006    | <0.0006    | 0.000746 J |
| Arsenic               | mg/L  | 0.0172                       | 0.0174      | 0.0186     | 0.0162     | 0.017      | 0.0128      | 0.0157     | 0.0168     | 0.0168     | 0.0178     | 0.0164     |
| Barium                | mg/L  | 0.0745                       | 0.0651      | 0.0692     | 0.0681     | 0.0563     | 0.0468      | 0.043      | 0.0465     | 0.0464     | 0.0481     | 0.0427     |
| Beryllium             | mg/L  | <0.000406                    | <0.000406   | <0.000406  | <0.000406  | <0.000406  | <0.0006     | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    |
| Cadmium               | mg/L  | <6.8e-005                    | <6.8e-005   | <6.8e-005  | <6.8e-005  | <6.8e-005  | <0.0002     | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    |
| Chromium              | mg/L  | 0.00365                      | 0.00401     | 0.00315    | 0.00317    | 0.00336    | <0.002      | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     |
| Cobalt                | mg/L  | 0.00124                      | 0.00125     | 0.00125    | 0.0012     | 0.00119    | 0.0279      | 0.0269     | 0.0293     | 0.0272     | 0.0285     | 0.025      |
| Combined Radium 226 + | pCi/L | 0.978 U                      | 0.587 U     | 1.25       | 0.528 U    | 0.746 U    | 1 U         | 1 U        | 0.557      | 0.765      | 0.654      | 0.402 U    |
| Fluoride              | mg/L  | 0.0957 J                     | 0.0651 J    | 0.0733 J   | 0.0685 J   | 0.127      | 0.18 J      | 0.21 J     | 0.223 J    | 0.196 J    | 0.166 J    | --         |
| Lead                  | mg/L  | 7.64e-005 J                  | 8.69e-005 J | 0.000102 J | <6.8e-005  | <6.8e-005  | <0.001      | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     |
| Lithium               | mg/L  | <0.007105                    | <0.007105   | <0.007105  | <0.007105  | <0.007105  | <0.01       | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      |
| Mercury               | mg/L  | <0.0003                      | <0.0003     | <0.0003    | <0.0003    | <0.0003    | <0.00025    | <0.00025   | <0.00025   | <0.00025   | <0.00025   | <0.00025   |
| Molybdenum            | mg/L  | 0.000701                     | 0.00053     | 0.000508   | 0.000643   | <0.005075  | 0.00238 J   | 0.00203 J  | <0.002     | <0.002     | <0.002     | <0.002     |
| Selenium              | mg/L  | <0.000507                    | <0.000508   | <0.000508  | <0.000508  | <0.000508  | <0.002      | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     |
| Thallium              | mg/L  | <6.8e-005                    | <6.8e-005   | <6.8e-005  | <6.8e-005  | <6.8e-005  | <0.0002     | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |            |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                       |       | BY-AP-MW-15                  |            |            |            |            |            |            |            |            |            |            |
|                       |       | 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 |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |            |            |            |            |
| Boron                 | mg/L  | --                           | 0.0775 J   | 0.0535 J   | 0.0937 J   | --         | 0.0683 J   | 0.0715 J   | 0.116      | 0.116      | 0.1        | 0.148      |
| Calcium               | mg/L  | --                           | 6.94       | 6.88       | 7.43       | --         | 7.42       | 7.58       | 7.22       | 6.9        | 7.32       | 7.04       |
| Chloride              | mg/L  | 34                           | 33         | 35         | 36         | --         | 42         | 43         | 47.2       | 56.3       | 54.7       | 47         |
| Fluoride              | mg/L  | 0.18                         | 0.18       | 0.18       | 0.2        | 0.19       | 0.19       | 0.18       | 0.168      | 0.185      | 0.187      | 0.18       |
| pH_Field              | SU    | 6.62                         | 6.49       | 6.7        | 6.66       | 6.73       | 6.62       | 6.58       | 6.63       | 6.2        | 6.72       | 6.57       |
| Sulfate               | mg/L  | 5                            | <1.4       | 5          | <1.4       | --         | <1.4       | <1.4       | 3.27       | 1.72       | 7.5        | 7.61       |
| TDS                   | mg/L  | --                           | 183        | 187        | 202        | --         | 197        | 190        | 198        | 236        | 231        | 208        |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |            |            |            |            |
| Antimony              | mg/L  | --                           | <0.0006    | <0.0006    | --         | <0.0006    | <0.0006    | <0.0008    | <0.0008    | <0.0008    | <0.0008    | <0.0008    |
| Arsenic               | mg/L  | --                           | 0.0172     | 0.0158     | --         | 0.0173     | 0.0181     | 0.0158     | 0.0148     | 0.017      | 0.0183     | 0.0206     |
| Barium                | mg/L  | --                           | 0.0473     | 0.0437     | --         | 0.0501     | 0.0575     | 0.0557     | 0.0562     | 0.0628     | 0.0697     | 0.0736     |
| Beryllium             | mg/L  | --                           | <0.0006    | <0.0006    | --         | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    |
| Cadmium               | mg/L  | --                           | <0.0002    | <0.0002    | --         | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    |
| Chromium              | mg/L  | --                           | <0.002     | <0.002     | --         | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     |
| Cobalt                | mg/L  | --                           | 0.0274     | 0.0285     | --         | 0.0273     | 0.0298     | 0.0311     | 0.0343     | 0.0336     | 0.0344     | 0.0385     |
| Combined Radium 226 + | pCi/L | --                           | 0.578      | 0.128 U    | --         | 0.768 U    | 0.651      | 0.764      | 0.433      | 0.988      | 0.527      | 1.87       |
| Fluoride              | mg/L  | 0.18                         | 0.18       | 0.18       | 0.2        | 0.19       | 0.19       | 0.18       | 0.168      | 0.185      | 0.187      | 0.18       |
| Lead                  | mg/L  | --                           | <0.001     | <0.001     | --         | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     |
| Lithium               | mg/L  | --                           | <0.01      | <0.01      | --         | <0.01      | <0.01      | 0.0169 J   | 0.0254     | 0.0248     | 0.0174 J   | <0.01      |
| Mercury               | mg/L  | --                           | <0.00025   | <0.00025   | --         | <0.00025   | <0.00025   | <0.00025   | <0.0003    | <0.0003    | <0.0003    | <0.0003    |
| Molybdenum            | mg/L  | --                           | 0.00201 J  | <0.002     | --         | 0.00211 J  | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | 0.00209 J  |
| Selenium              | mg/L  | --                           | <0.002     | <0.002     | --         | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     |
| Thallium              | mg/L  | --                           | <0.0002    | <0.0002    | --         | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |             |            |            |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|
|                       |       | BY-AP-MW-15                  |            |            |            |            | BY-AP-MW-16 |            |            |            |            |            |
|                       |       | 05/11/2021                   | 10/26/2021 | 05/25/2022 | 11/01/2022 | 04/03/2023 | 03/02/2016  | 04/19/2016 | 06/08/2016 | 08/31/2016 | 10/19/2016 | 01/31/2017 |
| <b>Appendix III</b>   |       |                              |            |            |            |            |             |            |            |            |            |            |
| Boron                 | mg/L  | 0.109                        | 0.0953 J   | 0.0794 J   | 0.0706 J   | 0.0825 J   | 1.47        | 1.53       | 1.7        | 1.68       | 1.53       | 1.51       |
| Calcium               | mg/L  | 6.98                         | 6.46       | 6.41       | 6.57       | 6.62       | 14.6        | 13.3       | 13.2       | 11.8       | 12.9       | 13.5       |
| Chloride              | mg/L  | 80                           | 85.4       | 80.7       | 99.1       | 91.5       | 16.6        | 15.7       | 15.1       | 15.9       | 15.3       | --         |
| Fluoride              | mg/L  | 0.214                        | 0.171      | 0.214      | 0.177      | 0.26       | 0.04 J      | 0.05 J     | 0.073 J    | 0.051 J    | <0.01      | --         |
| pH_Field              | SU    | 6.76                         | 6.7        | 6.68       | 6.64       | 6.63       | 5.79        | 5.78       | 5.8        | 5.83       | 5.81       | 5.84       |
| Sulfate               | mg/L  | 7.54                         | 26.4       | 1.8 J      | 4.24       | 8.28       | <0.3        | <0.3       | 0.514 J    | <0.3       | <0.3       | --         |
| TDS                   | mg/L  | 279                          | 269        | 255        | 278        | 285        | 263         | 259        | 285        | 279        | 264        | 270        |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |             |            |            |            |            |            |
| Antimony              | mg/L  | <0.000507                    | <0.000508  | <0.000508  | <0.000508  | <0.00071   | <0.0006     | <0.0006    | <0.0006    | <0.0006    | <0.0006    | 0.000769 J |
| Arsenic               | mg/L  | 0.0184                       | 0.0186     | 0.0186     | 0.0177     | 0.02       | 0.0102      | 0.0103     | 0.0105     | 0.0117     | 0.0108     | 0.0102     |
| Barium                | mg/L  | 0.0762                       | 0.0784     | 0.0806     | 0.0745     | 0.0875     | 0.0921      | 0.0775     | 0.0798     | 0.0801     | 0.0766     | 0.075      |
| Beryllium             | mg/L  | <0.000406                    | <0.000406  | <0.000406  | <0.000406  | <0.000406  | <0.0006     | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    |
| Cadmium               | mg/L  | <6.8e-005                    | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  | <0.0002     | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    |
| Chromium              | mg/L  | 0.000581 J                   | 0.00052 J  | 0.000489 J | <0.000203  | 0.000225 J | <0.002      | <0.002     | <0.002     | 0.00215 J  | <0.002     | <0.002     |
| Cobalt                | mg/L  | 0.0349                       | 0.0347     | 0.0364     | 0.0357     | 0.0345     | 0.0212      | 0.018      | 0.0176     | 0.0134     | 0.0193     | 0.017      |
| Combined Radium 226 + | pCi/L | 0.684 U                      | 1.95       | 1.3        | 1.15       | 1.63       | 1 U         | 1 U        | 0.344 U    | 0.582      | 0.448      | 0.653      |
| Fluoride              | mg/L  | 0.214                        | 0.171      | 0.214      | 0.177      | 0.26       | 0.04 J      | 0.05 J     | 0.073 J    | 0.051 J    | <0.01      | --         |
| Lead                  | mg/L  | <6.8e-005                    | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  | <0.001      | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     |
| Lithium               | mg/L  | 0.00788 J                    | 0.0117 J   | 0.00893 J  | <0.007105  | 0.0189 J   | <0.01       | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      |
| Mercury               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.00025    | <0.00025   | <0.00025   | <0.00025   | <0.00025   | <0.00025   |
| Molybdenum            | mg/L  | 0.00171                      | 0.00206    | 0.002      | 0.00167    | <0.005075  | <0.002      | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     |
| Selenium              | mg/L  | <0.000507                    | <0.000508  | <0.000508  | <0.000508  | <0.000508  | <0.002      | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     |
| Thallium              | mg/L  | <6.8e-005                    | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  | <0.0002     | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |            |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                       |       | BY-AP-MW-16                  |            |            |            |            |            |            |            |            |            |            |
|                       |       | 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 |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |            |            |            |            |
| Boron                 | mg/L  | --                           | 1.64       | 1.57       | 2.18       | --         | 1.57       | 1.58       | 1.7        | 2.05       | 1.74       | 1.9        |
| Calcium               | mg/L  | --                           | 13.5       | 13.6       | 11.8       | --         | 14         | 13.3       | 13.4       | 11.7       | 14.2       | 13.1       |
| Chloride              | mg/L  | 19                           | 19         | 19         | 21         | --         | 18         | 20         | 20         | 20.3       | 20.8       | 20.8       |
| Fluoride              | mg/L  | 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      |
| pH_Field              | SU    | 5.79                         | 5.68       | 5.8        | 5.86       | 5.86       | 5.85       | 5.76       | 5.76       | 5.23       | 5.75       | 5.47       |
| Sulfate               | mg/L  | 5                            | <1.4       | 5          | 2.6 J      | --         | <1.4       | <1.4       | 6.72       | 3.4        | 17.5       | 13.3       |
| TDS                   | mg/L  | --                           | 259        | 278        | 333        | --         | 274        | 250        | 264        | 295        | 276        | 279        |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |            |            |            |            |
| Antimony              | mg/L  | --                           | <0.0006    | <0.0006    | --         | <0.0006    | <0.0006    | <0.0008    | <0.0008    | <0.0008    | <0.0008    | <0.0008    |
| Arsenic               | mg/L  | --                           | 0.0102     | 0.00982    | --         | 0.0151     | 0.0114     | 0.0108     | 0.0106     | 0.0138     | 0.012      | 0.0137     |
| Barium                | mg/L  | --                           | 0.0761     | 0.07       | --         | 0.0779     | 0.0877     | 0.0792     | 0.081      | 0.0803     | 0.091      | 0.0954     |
| Beryllium             | mg/L  | --                           | <0.0006    | <0.0006    | --         | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    | <0.0006    |
| Cadmium               | mg/L  | --                           | <0.0002    | <0.0002    | --         | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    |
| Chromium              | mg/L  | --                           | <0.002     | <0.002     | --         | 0.00253 J  | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     |
| Cobalt                | mg/L  | --                           | 0.0166     | 0.0172     | --         | 0.00621 J  | 0.0189     | 0.0182     | 0.0206     | 0.0107     | 0.0199     | 0.0192     |
| Combined Radium 226 + | pCi/L | --                           | 0.698      | 0.548      | --         | 0.98 U     | 0.623      | 0.744      | 2.51       | 0.443 U    | 0.341 U    | 2.25       |
| Fluoride              | mg/L  | 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      |
| Lead                  | mg/L  | --                           | <0.001     | <0.001     | --         | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     | <0.001     |
| Lithium               | mg/L  | --                           | <0.01      | <0.01      | --         | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      |
| Mercury               | mg/L  | --                           | <0.00025   | <0.00025   | --         | <0.00025   | <0.00025   | <0.00025   | <0.0003    | <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     |
| Selenium              | mg/L  | --                           | <0.002     | <0.002     | --         | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     | <0.002     |
| Thallium              | mg/L  | --                           | <0.0002    | <0.0002    | --         | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    | <0.0002    |

**Notes:**

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





**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |             |            |            |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|
|                       |       | BY-AP-MW-16                  |            |            |            |            | BY-AP-MW-1V |            |            |            |            |            |
|                       |       | 05/19/2021                   | 11/01/2021 | 05/25/2022 | 11/01/2022 | 04/05/2023 | 01/08/2019  | 10/02/2019 | 03/30/2020 | 09/01/2020 | 05/18/2021 | 11/01/2021 |
| <b>Appendix III</b>   |       |                              |            |            |            |            |             |            |            |            |            |            |
| Boron                 | mg/L  | 1.74                         | 2.18       | 1.98       | 2.23       | 2.26       | 0.0205 J    | <0.03      | 0.0347 J   | 0.0368 J   | 0.0334 J   | <0.03      |
| Calcium               | mg/L  | 14.2                         | 13.4       | 13.2       | 11.1       | 11.4       | 15.7        | 3.16       | 3.23       | 3.43       | 3.79       | 3.68       |
| Chloride              | mg/L  | 21.4                         | 22.3       | 20         | 23.5       | 21.8       | 42          | 60.7       | 69.1       | 69         | 79.5       | 79.4       |
| Fluoride              | mg/L  | 0.0793 J                     | 0.0887 J   | <0.06      | 0.112 J    | 0.144      | 0.0548 J    | 0.0595 J   | <0.06      | <0.06      | <0.06      | <0.06      |
| pH_Field              | SU    | 5.8                          | 5.36       | 5.74       | 5.78       | 5.83       | 6.38        | 5.27       | 5.65       | 5.62       | 5.55       | 5.76       |
| Sulfate               | mg/L  | 3.11                         | 11.9       | 6.29       | 7.46       | 9.3        | 20.9        | 10.5       | 11.1       | 13         | 16         | 20.2       |
| TDS                   | mg/L  | 274                          | 324        | 299        | 330        | 327        | 192         | 154        | 160        | 175        | 189        | 190        |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |             |            |            |            |            |            |
| Antimony              | mg/L  | <0.000507                    | <0.000508  | <0.000508  | <0.000508  | <0.00071   | 0.00125 J   | <0.0008    | <0.0008    | <0.0008    | <0.000507  | <0.000508  |
| Arsenic               | mg/L  | 0.0118                       | 0.0151     | 0.0144     | 0.0158     | 0.0156     | 0.00109 J   | 0.00157 J  | 0.00152 J  | 0.00179 J  | 0.00144    | 0.000856   |
| Barium                | mg/L  | 0.102                        | 0.0988     | 0.0961     | 0.0905     | 0.0852     | 0.0826      | 0.0611     | 0.062      | 0.0795     | 0.0861     | 0.0731     |
| Beryllium             | mg/L  | <0.000406                    | <0.000406  | <0.000406  | <0.000406  | <0.000406  | <0.0006     | <0.0006    | <0.0006    | <0.0006    | <0.000406  | <0.000406  |
| Cadmium               | mg/L  | <6.8e-005                    | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  | <0.0003     | <0.0003    | <0.0003    | <0.0003    | <6.8e-005  | <6.8e-005  |
| Chromium              | mg/L  | 0.00162                      | 0.0018     | 0.00135    | 0.000918 J | 0.00125    | <0.002      | <0.002     | <0.002     | <0.002     | 0.000447 J | 0.000454 J |
| Cobalt                | mg/L  | 0.0182                       | 0.0139     | 0.0161     | 0.00771    | 0.00721    | 0.00911     | 0.00289 J  | <0.002     | 0.00407 J  | 0.00483    | 0.00578    |
| Combined Radium 226 + | pCi/L | 0.321 U                      | 1.28       | 0.927 U    | 1.09       | 1.5        | 1.06        | 1.03       | 0.579      | 0.948      | 0.814 U    | 1.3 U      |
| Fluoride              | mg/L  | 0.0793 J                     | 0.0887 J   | <0.06      | 0.112 J    | 0.144      | 0.0548 J    | 0.0595 J   | <0.06      | <0.06      | <0.06      | <0.06      |
| Lead                  | mg/L  | 0.000191 J                   | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  | <0.001      | <0.001     | <0.001     | <0.001     | <6.8e-005  | <6.8e-005  |
| Lithium               | mg/L  | <0.007105                    | <0.007105  | <0.007105  | <0.007105  | <0.007105  | 0.0219      | <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    |
| Molybdenum            | mg/L  | 0.000136 J                   | <6.8e-005  | <0.000102  | <0.000102  | <0.005075  | <0.002      | <0.002     | <0.002     | <0.002     | 0.00018 J  | 0.00013 J  |
| Selenium              | mg/L  | <0.000507                    | <0.000508  | <0.000508  | <0.000508  | <0.000508  | <0.002      | <0.002     | <0.002     | <0.002     | <0.000507  | <0.000508  |
| Thallium              | mg/L  | <6.8e-005                    | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  | <0.0002     | <0.0002    | <0.0002    | <0.0002    | <6.8e-005  | <6.8e-005  |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |             |            |             |            |            |            |             |            |             |            |  |
|-----------------------|-------|------------------------------|-------------|------------|-------------|------------|------------|------------|-------------|------------|-------------|------------|--|
|                       |       | BY-AP-MW-1V                  |             |            | BY-AP-MW-5V |            |            |            |             |            |             |            |  |
|                       |       | 05/24/2022                   | 11/01/2022  | 04/04/2023 | 01/08/2019  | 10/02/2019 | 03/31/2020 | 09/01/2020 | 11/02/2021  | 05/25/2022 | 10/31/2022  | 04/04/2023 |  |
| <b>Appendix III</b>   |       |                              |             |            |             |            |            |            |             |            |             |            |  |
| Boron                 | mg/L  | 0.0333 J                     | 0.0424 J    | 0.0659 J   | 0.029 J     | 0.0336 J   | 0.0339 J   | 0.0414 J   | <0.03       | <0.03      | 0.0625 J    | 0.0924 J   |  |
| Calcium               | mg/L  | 3.55                         | 3.76        | 2.52       | 3.7         | 2.43       | 1.88       | 2.13       | 2.11        | 2.58       | 2.16        | 2.13       |  |
| Chloride              | mg/L  | 95.1                         | 98.5        | 92.3       | 20.9        | 25.8       | 25.8       | 30.6       | 30.5        | 22.6       | 35.3        | 39.5       |  |
| Fluoride              | mg/L  | <0.06                        | <0.06       | <0.06      | <0.05       | 0.0777 J   | <0.06      | 0.0807 J   | 0.0627 J    | <0.06      | <0.06       | <0.06      |  |
| pH_Field              | SU    | 4.9                          | 5.21        | 5.69       | 6.07        | 5.9        | 6.05       | 5.7        | 6.35        | 5.88       | 5.9         | 5.99       |  |
| Sulfate               | mg/L  | 21.1                         | 23          | 19         | 1.75        | 5.8        | 0.98 J     | 1.47       | 1.34        | 2.91       | 7.44        | 4.84       |  |
| TDS                   | mg/L  | 176                          | 220         | 219        | 76.7        | 98         | 81.3       | 94         | 77.3        | 75.3       | 115         | 120        |  |
| <b>Appendix IV</b>    |       |                              |             |            |             |            |            |            |             |            |             |            |  |
| Antimony              | mg/L  | <0.000508                    | <0.000508   | <0.00071   | 0.00207 J   | <0.0008    | <0.0008    | <0.0008    | <0.000508   | <0.000508  | <0.000508   | <0.00071   |  |
| Arsenic               | mg/L  | 0.000793                     | 0.000468    | 0.00057    | <0.001      | <0.001     | <0.001     | <0.001     | 0.00101     | 0.000171 J | <8.1e-005   | <0.000112  |  |
| Barium                | mg/L  | 0.0886                       | 0.0797      | 0.0564     | 0.0372      | 0.0338     | 0.0313     | 0.0399     | 0.0368      | 0.0574     | 0.0514      | 0.0451     |  |
| Beryllium             | mg/L  | <0.000406                    | <0.000406   | <0.000406  | <0.0006     | <0.0006    | <0.0006    | <0.0006    | <0.000406   | <0.000406  | <0.000406   | <0.000406  |  |
| Cadmium               | mg/L  | <6.8e-005                    | 7.15e-005 J | <6.8e-005  | <0.0003     | <0.0003    | <0.0003    | <0.0003    | <6.8e-005   | <6.8e-005  | <6.8e-005   | <6.8e-005  |  |
| Chromium              | mg/L  | 0.000384 J                   | 0.000558 J  | 0.000316 J | <0.002      | <0.002     | <0.002     | <0.002     | 0.000991 J  | 0.000476 J | 0.001 J     | 0.000566 J |  |
| Cobalt                | mg/L  | 0.00765                      | 0.00874     | 0.00568    | <0.002      | <0.002     | <0.002     | <0.002     | 0.000132 J  | 0.00106    | 9.47e-005 J | <6.8e-005  |  |
| Combined Radium 226 + | pCi/L | 2                            | 1.35        | 1.62       | 0.298 U     | 0.206 U    | 0.024 U    | 0.741      | 0.158 U     | 1.03 U     | 0.7 U       | 1.13 U     |  |
| Fluoride              | mg/L  | <0.06                        | <0.06       | <0.06      | <0.05       | 0.0777 J   | <0.06      | 0.0807 J   | 0.0627 J    | <0.06      | <0.06       | <0.06      |  |
| Lead                  | mg/L  | <6.8e-005                    | <6.8e-005   | <6.8e-005  | <0.001      | <0.001     | <0.001     | <0.001     | <6.8e-005   | <6.8e-005  | <6.8e-005   | <6.8e-005  |  |
| Lithium               | mg/L  | <0.007105                    | <0.007105   | <0.007105  | <0.01       | <0.01      | <0.01      | <0.01      | <0.007105   | <0.007105  | <0.007105   | <0.007105  |  |
| Mercury               | mg/L  | <0.0003                      | <0.0003     | <0.0003    | <0.0003     | <0.0003    | <0.0003    | <0.0003    | <0.0003     | <0.0003    | <0.0003     | <0.0003    |  |
| Molybdenum            | mg/L  | 0.000108 J                   | <0.000102   | <0.005075  | <0.002      | <0.002     | <0.002     | <0.002     | 8.05e-005 J | <0.000102  | <0.000102   | <0.005075  |  |
| Selenium              | mg/L  | <0.000508                    | <0.000508   | <0.000508  | <0.002      | <0.002     | <0.002     | <0.002     | <0.000508   | <0.000508  | <0.000508   | <0.000508  |  |
| Thallium              | mg/L  | <6.8e-005                    | <6.8e-005   | <6.8e-005  | <0.0002     | <0.0002    | <0.0002    | <0.0002    | <6.8e-005   | <6.8e-005  | <6.8e-005   | <6.8e-005  |  |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |            |             |            |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|-------------|------------|
|                       |       | BY-AP-MW-7V                  |            |            |            |            |            |            |            |             |            |
|                       |       | 01/09/2019                   | 10/01/2019 | 12/02/2019 | 03/30/2020 | 09/02/2020 | 05/18/2021 | 10/27/2021 | 05/24/2022 | 10/31/2022  | 04/03/2023 |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |            |             |            |
| Boron                 | mg/L  | 0.0615 J                     | 0.0546 J   | --         | 0.0555 J   | 0.0565 J   | 0.0599 J   | 0.0546 J   | 0.165      | 0.326       | 0.293      |
| Calcium               | mg/L  | 37                           | 18.7       | --         | 20         | 13.9       | 14.1       | 17.2       | 7.22       | 3.61        | 0.549      |
| Chloride              | mg/L  | 16.9                         | 13.2       | --         | 15.5       | 14.2       | 19         | 18.9       | 40.4       | 129         | 85.8       |
| Fluoride              | mg/L  | 0.139                        | 0.0871 J   | --         | 0.127      | 0.126      | 0.112      | 0.0795 J   | 0.0869 J   | 0.428       | 0.418      |
| pH_Field              | SU    | 7.12                         | 6.67       | 6.56       | 6.69       | 6.49       | 6.53       | 6.78       | 6.92       | 7.9         | 7.67       |
| Sulfate               | mg/L  | 3.69                         | 2          | --         | 9.65       | 6.7        | 5.53       | 5.31       | 6.06       | 6.09        | 5.29       |
| TDS                   | mg/L  | 240                          | 182        | --         | 204        | 168        | 192        | 169        | 228        | 357         | 311        |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |            |             |            |
| Antimony              | mg/L  | 0.000861 J                   | <0.0008    | --         | <0.0008    | <0.0008    | <0.000507  | <0.000508  | <0.000508  | <0.000508   | <0.00071   |
| Arsenic               | mg/L  | <0.001                       | 0.00278 J  | --         | 0.005      | 0.0024 J   | 0.00242    | 0.0027     | 0.00212    | 0.000745    | 0.00117    |
| Barium                | mg/L  | 0.112                        | 0.0541     | --         | 0.0519     | 0.0648     | 0.0805     | 0.0684     | 0.0803     | 0.0179      | 0.00816    |
| Beryllium             | mg/L  | <0.0006                      | <0.0006    | --         | <0.0006    | <0.0006    | <0.000406  | <0.000406  | <0.000406  | <0.000406   | <0.000406  |
| Cadmium               | mg/L  | <0.0003                      | <0.0003    | --         | <0.0003    | <0.0003    | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005   | <6.8e-005  |
| Chromium              | mg/L  | <0.002                       | <0.002     | --         | <0.002     | <0.002     | 0.000463 J | 0.000515 J | 0.000317 J | <0.000203   | 0.00021 J  |
| Cobalt                | mg/L  | <0.002                       | <0.002     | --         | <0.002     | <0.002     | 0.000139 J | 0.000134 J | 0.000106 J | 7.79e-005 J | 0.000148 J |
| Combined Radium 226 + | pCi/L | 0.527                        | 1.01       | --         | 0.604      | 1.12       | 0.199 U    | 0.914 U    | 0.619 U    | 0.332 U     | 0.856 U    |
| Fluoride              | mg/L  | 0.139                        | 0.0871 J   | --         | 0.127      | 0.126      | 0.112      | 0.0795 J   | 0.0869 J   | 0.428       | 0.418      |
| Lead                  | mg/L  | <0.001                       | <0.001     | --         | <0.001     | <0.001     | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005   | <6.8e-005  |
| Lithium               | mg/L  | 0.0662                       | <0.01      | <0.01      | <0.01      | <0.01      | <0.007105  | 0.00746 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  | 0.00511 J                    | <0.002     | --         | <0.002     | <0.002     | 0.00021    | 0.000456   | 0.00074    | 0.00135     | <0.005075  |
| Selenium              | mg/L  | <0.002                       | <0.002     | --         | <0.002     | <0.002     | <0.000507  | <0.000508  | <0.000508  | <0.000508   | <0.000508  |
| Thallium              | mg/L  | <0.0002                      | <0.0002    | --         | <0.0002    | <0.0002    | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005   | <6.8e-005  |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                       |       | BY-AP-MW-8V                  |            |            |            |            |            |            |            |            |
|                       |       | 01/09/2019                   | 10/01/2019 | 03/30/2020 | 09/02/2020 | 05/18/2021 | 10/26/2021 | 05/23/2022 | 10/31/2022 | 04/03/2023 |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |            |            |
| Boron                 | mg/L  | 0.164                        | 0.241      | 0.247      | 0.26       | 0.247      | 0.216      | 0.259      | 0.168      | 0.249      |
| Calcium               | mg/L  | 27.2                         | 24.2       | 24.5       | 23.3       | 26.4       | 25.7       | 24.3       | 23.9       | 7.52       |
| Chloride              | mg/L  | 21.9                         | 22.6       | 22.7       | 22.6       | 22.7       | 23.9       | 22.1       | 27.1       | 279        |
| Fluoride              | mg/L  | 0.0831 J                     | 0.0832 J   | 0.0935 J   | 0.098 J    | 0.0958 J   | 0.107      | 0.108 J    | 0.0963 J   | 0.212      |
| pH_Field              | SU    | 6.38                         | 6.16       | 6.2        | 5.79       | 6.33       | 6.26       | 6.08       | 6.23       | 6.5        |
| Sulfate               | mg/L  | 1.74                         | 7          | 75.8       | 24         | 19.6       | 58.2       | 8.35       | 10         | 21.7       |
| TDS                   | mg/L  | 276                          | 324        | 328        | 318        | 331        | 350        | 331        | 328        | 616        |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |            |            |
| Antimony              | mg/L  | <0.0008                      | <0.0008    | <0.0008    | <0.0008    | <0.000507  | <0.000508  | <0.000508  | <0.000508  | <0.00071   |
| Arsenic               | mg/L  | 0.00121 J                    | 0.00243 J  | 0.00275 J  | 0.00346 J  | 0.00398    | 0.0048     | 0.00386    | 0.00122    | 0.000444   |
| Barium                | mg/L  | 0.337                        | 0.264      | 0.264      | 0.289      | 0.299      | 0.282      | 0.277      | 0.277      | 0.151      |
| Beryllium             | mg/L  | <0.0006                      | <0.0006    | <0.0006    | <0.0006    | <0.000406  | <0.000406  | <0.000406  | <0.000406  | <0.000406  |
| Cadmium               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.0003    | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  |
| Chromium              | mg/L  | <0.002                       | <0.002     | <0.002     | <0.002     | 0.00129    | 0.00124    | 0.00119    | 0.000713 J | 0.000809 J |
| Cobalt                | mg/L  | <0.002                       | <0.002     | <0.002     | <0.002     | 0.000882   | 0.000879   | 0.000941   | 0.000614   | 0.000226   |
| Combined Radium 226 + | pCi/L | 1.69                         | 1.66       | 0.787      | 2.89       | 0.975 U    | 1.61       | 1.13       | 1.12       | 0.795 U    |
| Fluoride              | mg/L  | 0.0831 J                     | 0.0832 J   | 0.0935 J   | 0.098 J    | 0.0958 J   | 0.107      | 0.108 J    | 0.0963 J   | 0.212      |
| Lead                  | mg/L  | <0.001                       | <0.001     | <0.001     | <0.001     | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  |
| Lithium               | mg/L  | 0.0217                       | <0.01      | <0.01      | <0.01      | <0.007105  | <0.007105  | <0.007105  | <0.007105  | 0.00904 J  |
| Mercury               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    |
| Molybdenum            | mg/L  | 0.00243 J                    | <0.002     | <0.002     | <0.002     | 0.000363   | 0.000276   | 0.000286   | 0.000261   | <0.005075  |
| Selenium              | mg/L  | <0.002                       | <0.002     | <0.002     | <0.002     | <0.000507  | <0.000508  | <0.000508  | <0.000508  | <0.000508  |
| Thallium              | mg/L  | <0.0002                      | <0.0002    | <0.0002    | <0.0002    | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                       |       | BY-AP-MW-10V                 |            |            |            |            |            |            |            |            |
|                       |       | 01/08/2019                   | 10/01/2019 | 03/31/2020 | 09/01/2020 | 05/18/2021 | 10/27/2021 | 05/24/2022 | 11/01/2022 | 04/03/2023 |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |            |            |
| Boron                 | mg/L  | 0.677                        | 1.03       | 1.04       | 1.06       | 0.971      | 0.933      | 0.938      | 0.991      | 0.976      |
| Calcium               | mg/L  | 57.2                         | 62.5       | 66.6       | 57.3       | 64         | 61.6       | 65         | 69.9       | 59.2       |
| Chloride              | mg/L  | 21.3                         | 20         | 20.7       | 22.9       | 21         | 21         | 19.4       | 22.1       | 26.1       |
| Fluoride              | mg/L  | 0.123                        | 0.0517 J   | <0.06      | 0.0695 J   | <0.06      | <0.06      | <0.06      | 0.0602 J   | <0.06      |
| pH_Field              | SU    | 6.5                          | 6.05       | 6.38       | 6.34       | 6.34       | 6.1        | 5.77       | 6.41       | 6.38       |
| Sulfate               | mg/L  | 93.7                         | 4.91       | 20.3       | 30.1       | 24.9       | 6.04       | 5.73       | 11.4       | 13         |
| TDS                   | mg/L  | 462                          | 393        | 413        | 403        | 401        | 400        | 403        | 452        | 442        |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |            |            |
| Antimony              | mg/L  | 0.000965 J                   | <0.0008    | <0.0008    | <0.0008    | <0.000507  | <0.000508  | <0.000508  | <0.000508  | <0.00071   |
| Arsenic               | mg/L  | <0.001                       | <0.001     | <0.001     | <0.001     | 0.000356   | 0.000331   | 0.00032    | 0.000322   | 0.000313   |
| Barium                | mg/L  | 0.149                        | 0.167      | 0.184      | 0.203      | 0.212      | 0.182      | 0.188      | 0.199      | 0.189      |
| Beryllium             | mg/L  | <0.0006                      | <0.0006    | <0.0006    | <0.0006    | <0.000406  | <0.000406  | <0.000406  | <0.000406  | <0.000406  |
| Cadmium               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.0003    | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  |
| Chromium              | mg/L  | <0.002                       | <0.002     | <0.002     | <0.002     | 0.000684 J | 0.000677 J | 0.000624 J | 0.000597 J | 0.000522 J |
| Cobalt                | mg/L  | <0.002                       | <0.002     | <0.002     | <0.002     | 0.000648   | 0.000613   | 0.000618   | 0.000538   | 0.000623   |
| Combined Radium 226 + | pCi/L | 1.35                         | 1.99       | 0.957      | 0.625 U    | 1.66       | 1.44 U     | 1.2        | 1.34       | 1.24       |
| Fluoride              | mg/L  | 0.123                        | 0.0517 J   | <0.06      | 0.0695 J   | <0.06      | <0.06      | <0.06      | 0.0602 J   | <0.06      |
| Lead                  | mg/L  | <0.001                       | <0.001     | <0.001     | <0.001     | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  |
| Lithium               | mg/L  | 0.0313                       | <0.01      | <0.01      | <0.01      | <0.007105  | <0.007105  | <0.007105  | <0.007105  | <0.007105  |
| Mercury               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    |
| Molybdenum            | mg/L  | 0.00335 J                    | <0.002     | <0.002     | <0.002     | 0.000148 J | 0.000143 J | 0.000148 J | <0.000102  | <0.005075  |
| Selenium              | mg/L  | <0.002                       | <0.002     | <0.002     | <0.002     | <0.000507  | <0.000508  | <0.000508  | <0.000508  | <0.000508  |
| Thallium              | mg/L  | <0.0002                      | <0.0002    | <0.0002    | <0.0002    | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |             |            |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|------------|-------------|------------|------------|------------|------------|
|                       |       | BY-AP-MW-12V                 |            |            |            |             |            |            |            |            |
|                       |       | 01/08/2019                   | 10/02/2019 | 03/31/2020 | 09/01/2020 | 05/18/2021  | 11/01/2021 | 05/23/2022 | 11/01/2022 | 04/04/2023 |
| <b>Appendix III</b>   |       |                              |            |            |            |             |            |            |            |            |
| Boron                 | mg/L  | 0.0939 J                     | 0.131      | 0.101      | 0.149      | 0.118       | 0.0962 J   | 0.0765 J   | 0.0701 J   | 0.0809 J   |
| Calcium               | mg/L  | 33.8                         | 21.8       | 21.3       | 21         | 22.1        | 21.4       | 20.6       | 20.7       | 20.3       |
| Chloride              | mg/L  | 23.1                         | 28.1       | 25         | 26.4       | 25.5        | 26.1       | 25.6       | 26.9       | 26.3       |
| Fluoride              | mg/L  | 0.0729 J                     | 0.12       | 0.0828 J   | 0.0947 J   | 0.0783 J    | 0.123      | <0.06      | 0.13       | 0.126      |
| pH_Field              | SU    | 6.48                         | 5.9        | 6.33       | 6.2        | 5.92        | 6.09       | 6.22       | 6.32       | 6.22       |
| Sulfate               | mg/L  | 10.3                         | 9.34       | 61.1       | 47.5       | 32.8        | 10.9       | 6.64       | 12.3       | 88.4       |
| TDS                   | mg/L  | 348                          | 317        | 328        | 338        | 329         | 352        | 352        | 365        | 345        |
| <b>Appendix IV</b>    |       |                              |            |            |            |             |            |            |            |            |
| Antimony              | mg/L  | 0.00117 J                    | <0.0008    | <0.0008    | <0.0008    | <0.000507   | <0.000508  | <0.000508  | <0.000508  | <0.00071   |
| Arsenic               | mg/L  | 0.0112                       | 0.0215     | 0.025      | 0.0257     | 0.0251      | 0.0256     | 0.0257     | 0.024      | 0.022      |
| Barium                | mg/L  | 0.144                        | 0.101      | 0.0939     | 0.102      | 0.111       | 0.103      | 0.103      | 0.105      | 0.0943     |
| Beryllium             | mg/L  | <0.0006                      | <0.0006    | <0.0006    | <0.0006    | <0.000406   | <0.000406  | <0.000406  | <0.000406  | <0.000406  |
| Cadmium               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.0003    | <6.8e-005   | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  |
| Chromium              | mg/L  | 0.0021 J                     | <0.002     | <0.002     | <0.002     | 0.00112     | 0.000862 J | 0.000813 J | 0.000827 J | 0.000981 J |
| Cobalt                | mg/L  | <0.002                       | <0.002     | <0.002     | <0.002     | 0.00237     | 0.00231    | 0.00255    | 0.00216    | 0.00168    |
| Combined Radium 226 + | pCi/L | 1.04                         | 0.896      | 0.923      | 1.03       | 1.31        | 0.814 U    | 0.962 U    | 0.816 U    | 1.48       |
| Fluoride              | mg/L  | 0.0729 J                     | 0.12       | 0.0828 J   | 0.0947 J   | 0.0783 J    | 0.123      | <0.06      | 0.13       | 0.126      |
| Lead                  | mg/L  | <0.001                       | <0.001     | <0.001     | <0.001     | 8.16e-005 J | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  |
| Lithium               | mg/L  | 0.0148 J                     | <0.01      | <0.01      | <0.01      | <0.007105   | <0.007105  | <0.007105  | <0.007105  | <0.007105  |
| Mercury               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.0003    | <0.0003     | <0.0003    | <0.0003    | <0.0003    | <0.0003    |
| Molybdenum            | mg/L  | 0.00303 J                    | <0.002     | <0.002     | <0.002     | 0.00106     | 0.00118    | 0.00123    | 0.00101    | <0.005075  |
| Selenium              | mg/L  | <0.002                       | <0.002     | <0.002     | <0.002     | <0.000507   | <0.000508  | <0.000508  | <0.000508  | <0.000508  |
| Thallium              | mg/L  | <0.0002                      | <0.0002    | <0.0002    | <0.0002    | <6.8e-005   | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  |

**Notes:**

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





**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|
|                       |       | BY-AP-MW-13V                 |            |            |            |            |            |            |
|                       |       | 06/17/2020                   | 09/02/2020 | 05/19/2021 | 10/26/2021 | 05/25/2022 | 11/01/2022 | 04/04/2023 |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |
| Boron                 | mg/L  | 0.0847 J                     | 0.112      | 0.0976 J   | 0.0888 J   | 0.0867 J   | 0.095 J    | 0.0745 J   |
| Calcium               | mg/L  | 20.2                         | 12.3       | 12.7       | 11.3       | 12         | 12.2       | 14.2       |
| Chloride              | mg/L  | 77                           | 51.7       | 64.4       | 47.7       | 59.3       | 62.7       | 52.1       |
| Fluoride              | mg/L  | 0.103                        | 0.0864 J   | 0.0884 J   | 0.096 J    | <0.06      | 0.069 J    | 0.0687 J   |
| pH_Field              | SU    | 6.25                         | 6.23       | 6.2        | 6.81       | 6.3        | 6.29       | 6.24       |
| Sulfate               | mg/L  | 101                          | 30.6       | 39.7       | 47.3       | 122        | 136        | 29.5       |
| TDS                   | mg/L  | 449                          | 361        | 362        | 355        | 343        | 340        | 338        |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |
| Antimony              | mg/L  | <0.0008                      | <0.0008    | <0.000507  | <0.000508  | <0.000508  | <0.000508  | <0.00071   |
| Arsenic               | mg/L  | 0.00321 J                    | 0.00708    | 0.00877    | 0.0103     | 0.0102     | 0.00868    | 0.00817    |
| Barium                | mg/L  | 0.106                        | 0.109      | 0.114      | 0.0827     | 0.0852     | 0.0987     | 0.106      |
| Beryllium             | mg/L  | <0.0006                      | <0.0006    | <0.000406  | <0.000406  | <0.000406  | <0.000406  | <0.000406  |
| Cadmium               | mg/L  | <0.0003                      | <0.0003    | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  |
| Chromium              | mg/L  | 0.00537 J                    | 0.00525 J  | 0.00416    | 0.00606    | 0.00379    | 0.00354    | 0.0041     |
| Cobalt                | mg/L  | <0.002                       | <0.002     | 0.000827   | 0.00114    | 0.00119    | 0.00112    | 0.00106    |
| Combined Radium 226 + | pCi/L | 1.22                         | 2.49       | 0.783 U    | 1.6        | 0.951 U    | 0.933 U    | 0.957 U    |
| Fluoride              | mg/L  | 0.103                        | 0.0864 J   | 0.0884 J   | 0.096 J    | <0.06      | 0.069 J    | 0.0687 J   |
| Lead                  | mg/L  | <0.001                       | <0.001     | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  |
| Lithium               | mg/L  | <0.01                        | <0.01      | <0.007105  | 0.0484     | 0.0321     | 0.0331     | 0.0351     |
| Mercury               | mg/L  | <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    | 0.000703   | 0.000534   | <0.005075  |
| Selenium              | mg/L  | <0.002                       | <0.002     | <0.000507  | <0.000508  | <0.000508  | <0.000508  | <0.000508  |
| Thallium              | mg/L  | <0.0002                      | <0.0002    | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |             |            |            |            |            |
|-----------------------|-------|------------------------------|------------|-------------|------------|------------|------------|------------|
|                       |       | BY-AP-MW-14V                 |            |             |            |            |            |            |
|                       |       | 06/17/2020                   | 09/02/2020 | 05/25/2021  | 10/26/2021 | 05/24/2022 | 11/01/2022 | 04/04/2023 |
| <b>Appendix III</b>   |       |                              |            |             |            |            |            |            |
| Boron                 | mg/L  | 0.426                        | 0.407      | 0.43        | 0.393      | 0.376      | 0.361      | 0.387      |
| Calcium               | mg/L  | 5.32                         | 4.7        | 4.66        | 5.28       | 7.03       | 5.52       | 5.34       |
| Chloride              | mg/L  | 240                          | 178        | 210         | 191        | 184        | 175        | 174        |
| Fluoride              | mg/L  | 0.343                        | 0.359      | 0.378       | 0.384      | 0.291      | 0.275      | 0.302      |
| pH_Field              | SU    | 7.27                         | 7.02       | 7.2         | 6.91       | 6.71       | 6.9        | 6.8        |
| Sulfate               | mg/L  | 28                           | 63.6       | 39.5        | 75.1       | 13.6       | 10.7       | 11.7       |
| TDS                   | mg/L  | 546                          | 498        | 520         | 474        | 508        | 464        | 464        |
| <b>Appendix IV</b>    |       |                              |            |             |            |            |            |            |
| Antimony              | mg/L  | <0.0008                      | <0.0008    | <0.000507   | <0.000508  | <0.000508  | <0.000508  | <0.00071   |
| Arsenic               | mg/L  | 0.00208 J                    | 0.00433 J  | 0.00324     | 0.0041     | 0.00532    | 0.0057     | 0.00514    |
| Barium                | mg/L  | 0.0809                       | 0.0766     | 0.0729      | 0.0653     | 0.067      | 0.0651     | 0.0645     |
| Beryllium             | mg/L  | <0.0006                      | <0.0006    | <0.000406   | <0.000406  | <0.000406  | <0.000406  | <0.000406  |
| Cadmium               | mg/L  | <0.0003                      | <0.0003    | <6.8e-005   | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  |
| Chromium              | mg/L  | <0.002                       | <0.002     | 0.00113     | 0.00098 J  | 0.000602 J | 0.000613 J | 0.000422 J |
| Cobalt                | mg/L  | <0.002                       | 0.00444 J  | 0.00271     | 0.00419    | 0.00353    | 0.00394    | 0.00396    |
| Combined Radium 226 + | pCi/L | 0.726                        | 1.54       | 0.859 U     | 1.34 U     | 1.26       | 1.38       | 1.23 U     |
| Fluoride              | mg/L  | 0.343                        | 0.359      | 0.378       | 0.384      | 0.291      | 0.275      | 0.302      |
| Lead                  | mg/L  | <0.001                       | <0.001     | 7.24e-005 J | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  |
| Lithium               | mg/L  | <0.01                        | <0.01      | <0.007105   | <0.007105  | <0.007105  | <0.007105  | <0.007105  |
| Mercury               | mg/L  | <0.0003                      | <0.0003    | <0.0003     | <0.0003    | <0.0003    | <0.0003    | <0.0003    |
| Molybdenum            | mg/L  | 0.00451 J                    | 0.00229 J  | 0.00135     | 0.0012     | 0.0031     | 0.00139    | <0.005075  |
| Selenium              | mg/L  | <0.002                       | <0.002     | <0.000507   | <0.000508  | <0.000508  | <0.000508  | <0.000508  |
| Thallium              | mg/L  | <0.0002                      | <0.0002    | <6.8e-005   | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |             |            |            |             |            |
|-----------------------|-------|------------------------------|------------|------------|------------|-------------|------------|------------|-------------|------------|
|                       |       | BY-AP-MW-15V                 |            |            |            |             |            |            |             |            |
|                       |       | 07/31/2019                   | 10/01/2019 | 05/12/2020 | 09/01/2020 | 05/25/2021  | 10/26/2021 | 05/24/2022 | 11/02/2022  | 04/24/2023 |
| <b>Appendix III</b>   |       |                              |            |            |            |             |            |            |             |            |
| Boron                 | mg/L  | 0.0439 J                     | 0.0824 J   | 0.0559 J   | 0.0907 J   | 0.0617 J    | 0.0498 J   | 0.0376 J   | 0.0344 J    | 0.0423 J   |
| Calcium               | mg/L  | 9.32                         | 8.41       | 8.01       | 6.9        | 8.47        | 8.13       | 8.26       | 7.49        | 9.09       |
| Chloride              | mg/L  | 157                          | 195        | 190        | 170        | 180         | 196        | 212        | 179         | 192        |
| Fluoride              | mg/L  | 0.0515 J                     | 0.0931 J   | 0.0946 J   | 0.0624 J   | <0.06       | <0.06      | <0.06      | <0.06       | <0.06      |
| pH_Field              | SU    | 5.37                         | 5.68       | 5.68       | 5.91       | 5.6         | 5.93       | 5.7        | 5.38        | 5.61       |
| Sulfate               | mg/L  | 2.65                         | 0.854 J    | 1.61       | 2.21       | 1.19        | 0.966 J    | 1.77 J     | 6.26        | 1.93 J     |
| TDS                   | mg/L  | 337                          | 321        | 327        | 318        | 335         | 358        | 348        | 358         | 352        |
| <b>Appendix IV</b>    |       |                              |            |            |            |             |            |            |             |            |
| Antimony              | mg/L  | 0.00094 J                    | <0.0008    | <0.0008    | <0.0008    | <0.000507   | <0.000508  | <0.000508  | <0.000508   | <0.00071   |
| Arsenic               | mg/L  | 0.0174                       | 0.0243     | 0.0206     | 0.0401     | 0.0233      | 0.0248     | 0.0333     | 0.0365      | 0.022      |
| Barium                | mg/L  | 0.144                        | 0.13       | 0.155      | 0.134      | 0.184       | 0.149      | 0.159      | 0.139       | 0.168      |
| Beryllium             | mg/L  | <0.0006                      | <0.0006    | <0.0006    | <0.0006    | <0.000406   | <0.000406  | <0.000406  | <0.000406   | <0.000406  |
| Cadmium               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.0003    | <6.8e-005   | <6.8e-005  | 0.00018 J  | 8.12e-005 J | 0.000203   |
| Chromium              | mg/L  | <0.002                       | <0.002     | <0.002     | <0.002     | 0.000258 J  | 0.000264 J | 0.000207 J | <0.000203   | 0.000278 J |
| Cobalt                | mg/L  | 0.0632                       | 0.0629     | 0.0719     | 0.0665     | 0.0694      | 0.0756     | 0.0788     | 0.0697      | 0.0817     |
| Combined Radium 226 + | pCi/L | 1.09                         | 1.51       | 1.67       | 1.28       | 1.72        | 2.53       | 1.85       | 1.46        | 2.02       |
| Fluoride              | mg/L  | 0.0515 J                     | 0.0931 J   | 0.0946 J   | 0.0624 J   | <0.06       | <0.06      | <0.06      | <0.06       | <0.06      |
| Lead                  | mg/L  | <0.001                       | <0.001     | <0.001     | <0.001     | <6.8e-005   | <6.8e-005  | <6.8e-005  | <6.8e-005   | <6.8e-005  |
| Lithium               | mg/L  | <0.01                        | <0.01      | <0.01      | <0.01      | <0.007105   | <0.007105  | <0.007105  | <0.007105   | <0.007105  |
| Mercury               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.0003    | <0.0003     | <0.0003    | <0.0003    | <0.0003     | <0.0003    |
| Molybdenum            | mg/L  | <0.002                       | <0.002     | <0.002     | <0.002     | 0.000106 J  | 0.00011 J  | <0.000102  | <0.000102   | <0.005075  |
| Selenium              | mg/L  | <0.002                       | <0.002     | <0.002     | <0.002     | <0.000507   | <0.000508  | <0.000508  | <0.000508   | <0.000508  |
| Thallium              | mg/L  | <0.0002                      | <0.0002    | <0.0002    | <0.0002    | 8.49e-005 J | 7.4e-005 J | 0.00014 J  | 0.000104 J  | 0.000107 J |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |             |            |             |             |             |
|-----------------------|-------|------------------------------|------------|-------------|------------|-------------|-------------|-------------|
|                       |       | BY-AP-MW-16V                 |            |             |            |             |             |             |
|                       |       | 06/16/2020                   | 09/02/2020 | 05/19/2021  | 10/26/2021 | 05/25/2022  | 11/01/2022  | 04/04/2023  |
| <b>Appendix III</b>   |       |                              |            |             |            |             |             |             |
| Boron                 | mg/L  | <0.03                        | <0.03      | <0.03       | <0.03      | <0.03       | <0.03       | <0.03       |
| Calcium               | mg/L  | 2.15                         | 2.02       | 2.26        | 1.96       | 1.79        | 2.24        | 2.35        |
| Chloride              | mg/L  | 77.4                         | 75.6       | 81.2        | 68.3       | 56.6        | 70.9        | 55          |
| Fluoride              | mg/L  | 0.0744 J                     | <0.06      | <0.06       | <0.06      | <0.06       | <0.06       | <0.06       |
| pH_Field              | SU    | 5.2                          | 5.23       | 5.24        | 5.26       | 5.26        | 5.13        | 4.97        |
| Sulfate               | mg/L  | 41.5                         | 40         | 40.9        | 38.1       | 35.1        | 29.9        | 34          |
| TDS                   | mg/L  | 238                          | 219        | 213         | 195        | 188         | 184         | 187         |
| <b>Appendix IV</b>    |       |                              |            |             |            |             |             |             |
| Antimony              | mg/L  | <0.0008                      | <0.0008    | <0.000507   | <0.000508  | <0.000508   | <0.000508   | <0.00071    |
| Arsenic               | mg/L  | 0.00135 J                    | 0.0012 J   | 0.00123     | 0.00105    | 0.00126     | 0.000989    | 0.00092     |
| Barium                | mg/L  | 0.0658                       | 0.0733     | 0.0743      | 0.0589     | 0.0569      | 0.0625      | 0.0618      |
| Beryllium             | mg/L  | <0.0006                      | <0.0006    | <0.000406   | <0.000406  | <0.000406   | <0.000406   | <0.000406   |
| Cadmium               | mg/L  | <0.0003                      | <0.0003    | <6.8e-005   | <6.8e-005  | <6.8e-005   | 6.97e-005 J | <6.8e-005   |
| Chromium              | mg/L  | 0.00222 J                    | <0.002     | 0.000385 J  | 0.000402 J | 0.000278 J  | 0.000275 J  | <0.000203   |
| Cobalt                | mg/L  | 0.0144                       | 0.0163     | 0.0153      | 0.0159     | 0.0143      | 0.0185      | 0.0176      |
| Combined Radium 226 + | pCi/L | 0.642                        | 1.15       | 0.496 U     | 0.773 U    | 1.03 U      | 0.705 U     | 1.07        |
| Fluoride              | mg/L  | 0.0744 J                     | <0.06      | <0.06       | <0.06      | <0.06       | <0.06       | <0.06       |
| Lead                  | mg/L  | <0.001                       | <0.001     | <6.8e-005   | <6.8e-005  | <6.8e-005   | <6.8e-005   | 0.000253    |
| Lithium               | mg/L  | <0.01                        | <0.01      | <0.007105   | <0.007105  | <0.007105   | <0.007105   | <0.007105   |
| Mercury               | mg/L  | <0.0003                      | <0.0003    | <0.0003     | <0.0003    | <0.0003     | <0.0003     | <0.0003     |
| Molybdenum            | mg/L  | <0.002                       | <0.002     | <6.8e-005   | <6.8e-005  | <0.000102   | <0.000102   | <0.0005075  |
| Selenium              | mg/L  | <0.002                       | <0.002     | <0.000507   | <0.000508  | <0.000508   | <0.000508   | <0.000508   |
| Thallium              | mg/L  | <0.0002                      | <0.0002    | 9.13e-005 J | 0.000103 J | 8.86e-005 J | 8.14e-005 J | 8.22e-005 J |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |             |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|------------|-------------|------------|------------|------------|
|                       |       | BY-AP-MW-17V                 |            |            |            |             |            |            |            |
|                       |       | 06/16/2020                   | 09/01/2020 | 05/18/2021 | 10/25/2021 | 05/25/2022  | 10/31/2022 | 12/20/2022 | 04/04/2023 |
| <b>Appendix III</b>   |       |                              |            |            |            |             |            |            |            |
| Boron                 | mg/L  | 0.176                        | 0.124      | 0.124      | 0.113      | 0.177       | 0.195      | --         | 0.283      |
| Calcium               | mg/L  | 65.3                         | 20.5       | 15         | 6.58       | 49.6        | 58.5       | --         | 83.2       |
| Chloride              | mg/L  | 734                          | 273        | 225        | 111        | 649         | 914        | --         | 1540       |
| Fluoride              | mg/L  | 0.0994 J                     | 0.144      | 0.16       | 0.172      | 0.0799 J    | 0.118 J    | --         | 0.108 J    |
| pH_Field              | SU    | 6.43                         | 6.49       | 6.55       | 6.53       | 6.34        | 6.4        | --         | 6.48       |
| Sulfate               | mg/L  | 57.4                         | 26.6       | 17.4       | 11         | 49.1        | 55.8       | --         | 59         |
| TDS                   | mg/L  | 1460                         | 576        | 438        | 280        | 1270        | 1720       | --         | 2690       |
| <b>Appendix IV</b>    |       |                              |            |            |            |             |            |            |            |
| Antimony              | mg/L  | <0.0008                      | <0.0008    | <0.000507  | <0.000508  | <0.000508   | <0.000508  | --         | <0.00071   |
| Arsenic               | mg/L  | 0.0117                       | 0.00472 J  | 0.00546    | 0.00162    | 0.00158     | 0.00144    | --         | 0.00113    |
| Barium                | mg/L  | 0.62                         | 0.277      | 0.255      | 0.0928     | 0.683       | 0.781      | --         | 1.08       |
| Beryllium             | mg/L  | <0.0006                      | <0.0006    | <0.000406  | <0.000406  | <0.000406   | <0.000406  | --         | <0.000406  |
| Cadmium               | mg/L  | <0.0003                      | <0.0003    | <6.8e-005  | <6.8e-005  | <6.8e-005   | <6.8e-005  | --         | 0.000118 J |
| Chromium              | mg/L  | 0.00475 J                    | <0.002     | 0.000973 J | 0.000619 J | 0.000477 J  | <0.000203  | --         | <0.000203  |
| Cobalt                | mg/L  | 0.0858                       | 0.022      | 0.0197     | 0.00915    | 0.0717      | 0.0924     | --         | 0.13       |
| Combined Radium 226 + | pCi/L | 3.7                          | 1.9        | 1.05 U     | 1.04 U     | 5.37        | 5.26       | 8.68       | 9.59       |
| Fluoride              | mg/L  | 0.0994 J                     | 0.144      | 0.16       | 0.172      | 0.0799 J    | 0.118 J    | --         | 0.108 J    |
| Lead                  | mg/L  | <0.001                       | <0.001     | 0.000137 J | <6.8e-005  | 7.37e-005 J | <6.8e-005  | --         | <6.8e-005  |
| Lithium               | mg/L  | <0.01                        | <0.01      | <0.007105  | <0.007105  | <0.007105   | <0.007105  | --         | <0.007105  |
| Mercury               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.0003    | <0.0003     | <0.0003    | --         | <0.0003    |
| Molybdenum            | mg/L  | <0.002                       | <0.002     | 0.000571   | 0.000877   | 0.000428    | 0.000691   | --         | <0.005075  |
| Selenium              | mg/L  | <0.002                       | <0.002     | <0.000507  | <0.000508  | <0.000508   | <0.000508  | --         | <0.000508  |
| Thallium              | mg/L  | <0.0002                      | <0.0002    | <6.8e-005  | <6.8e-005  | 0.000103 J  | 0.000158 J | --         | 0.000362   |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|
|                       |       | BY-AP-MW-20V                 |            |            |            |            |            |            |
|                       |       | 06/17/2020                   | 09/01/2020 | 05/19/2021 | 11/01/2021 | 05/24/2022 | 11/01/2022 | 04/24/2023 |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |
| Boron                 | mg/L  | 0.118                        | 0.134      | 0.119      | 0.11       | 0.0977 J   | 0.0866 J   | <0.03      |
| Calcium               | mg/L  | 17.9                         | 14.7       | 15.3       | 15.1       | 14.4       | 13.8       | 24.3       |
| Chloride              | mg/L  | 29.2                         | 27.1       | 32.4       | 29.6       | 37.5       | 28.4       | 20.7       |
| Fluoride              | mg/L  | 0.155                        | 0.106      | 0.123      | 0.14       | 0.0852 J   | 0.0715 J   | 0.145      |
| pH_Field              | SU    | 6.26                         | 6.03       | 6.44       | 6          | 6.28       | 6.3        | 6.35       |
| Sulfate               | mg/L  | 10.1                         | 38.3       | 1.93       | 5.66       | 3.66       | 6.08       | 8.99       |
| TDS                   | mg/L  | 301                          | 308        | 271        | 282        | 303        | 275        | 161        |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |
| Antimony              | mg/L  | <0.0008                      | <0.0008    | <0.000507  | <0.000508  | <0.000508  | <0.000508  | <0.00071   |
| Arsenic               | mg/L  | 0.00584                      | 0.00845    | 0.0148     | 0.0182     | 0.0188     | 0.0186     | 0.00143    |
| Barium                | mg/L  | 0.152                        | 0.115      | 0.107      | 0.0883     | 0.0932     | 0.0871     | 0.0546     |
| Beryllium             | mg/L  | <0.0006                      | <0.0006    | <0.000406  | <0.000406  | <0.000406  | <0.000406  | <0.000406  |
| Cadmium               | mg/L  | <0.0003                      | <0.0003    | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  |
| Chromium              | mg/L  | <0.002                       | <0.002     | 0.000669 J | 0.000606 J | 0.000526 J | 0.000358 J | 0.000523 J |
| Cobalt                | mg/L  | 0.00593                      | 0.012      | 0.0173     | 0.0236     | 0.0268     | 0.0309     | <6.8e-005  |
| Combined Radium 226 + | pCi/L | 0.767                        | 1.43       | 1.43       | 1.48       | 0.97 U     | 0.873      | 0.605 U    |
| Fluoride              | mg/L  | 0.155                        | 0.106      | 0.123      | 0.14       | 0.0852 J   | 0.0715 J   | 0.145      |
| Lead                  | mg/L  | <0.001                       | <0.001     | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  |
| Lithium               | mg/L  | <0.01                        | <0.01      | <0.007105  | <0.007105  | <0.007105  | <0.007105  | <0.007105  |
| Mercury               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    |
| Molybdenum            | mg/L  | <0.002                       | <0.002     | 0.00155    | 0.00181    | 0.00175    | 0.00138    | <0.005075  |
| Selenium              | mg/L  | <0.002                       | <0.002     | <0.000507  | <0.000508  | <0.000508  | <0.000508  | <0.000508  |
| Thallium              | mg/L  | <0.0002                      | <0.0002    | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  |

**Notes:**

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





**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |             |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|-------------|------------|------------|------------|
|                       |       | BY-AP-MW-23V                 |            |            |             |            |            |            |
|                       |       | 06/16/2020                   | 09/01/2020 | 05/17/2021 | 10/26/2021  | 05/25/2022 | 11/01/2022 | 04/04/2023 |
| <b>Appendix III</b>   |       |                              |            |            |             |            |            |            |
| Boron                 | mg/L  | 0.325                        | 0.307      | 0.32       | 0.306       | 0.307      | 0.357      | 0.246      |
| Calcium               | mg/L  | 1.25                         | 1.27       | 1.33       | 0.837       | 0.873      | 3.9        | 42.6       |
| Chloride              | mg/L  | 120                          | 117        | 134        | 124         | 106        | 365        | 741        |
| Fluoride              | mg/L  | 0.393                        | 0.401      | 0.379      | 0.445       | 0.385      | 0.222      | 0.0682 J   |
| pH_Field              | SU    | 8.08                         | 7.98       | 7.87       | 8.31        | 7.44       | 7.36       | 6.73       |
| Sulfate               | mg/L  | 28.6                         | 9.25       | 6.92       | 4.23        | 4.25       | 11         | 32.9       |
| TDS                   | mg/L  | 479                          | 391        | 386        | 362         | 359        | 858        | 1370       |
| <b>Appendix IV</b>    |       |                              |            |            |             |            |            |            |
| Antimony              | mg/L  | <0.0008                      | <0.0008    | <0.000507  | <0.000508   | <0.000508  | <0.000508  | <0.00071   |
| Arsenic               | mg/L  | 0.00193 J                    | <0.001     | 0.00119    | 0.00119     | 0.00149    | 0.00198    | 0.00445    |
| Barium                | mg/L  | 0.02                         | 0.00933 J  | 0.0094     | 0.00766     | 0.00729    | 0.036      | 0.259      |
| Beryllium             | mg/L  | <0.0006                      | <0.0006    | <0.000406  | <0.000406   | <0.000406  | <0.000406  | <0.000406  |
| Cadmium               | mg/L  | <0.0003                      | <0.0003    | <6.8e-005  | <6.8e-005   | <6.8e-005  | <6.8e-005  | <6.8e-005  |
| Chromium              | mg/L  | 0.0221                       | 0.00284 J  | 0.00163    | 0.000605 J  | 0.000455 J | <0.000203  | 0.000217 J |
| Cobalt                | mg/L  | 0.00302 J                    | <0.002     | 0.000217   | <6.8e-005   | <6.8e-005  | 0.00022    | 0.0375     |
| Combined Radium 226 + | pCi/L | -0.0436 U                    | 0.323 U    | 0.374 U    | 0.285 U     | 0.285 U    | 0.656 U    | 1.91       |
| Fluoride              | mg/L  | 0.393                        | 0.401      | 0.379      | 0.445       | 0.385      | 0.222      | 0.0682 J   |
| Lead                  | mg/L  | 0.00222 J                    | <0.001     | 0.000216   | 9.98e-005 J | 0.000124 J | <6.8e-005  | <6.8e-005  |
| Lithium               | mg/L  | <0.01                        | <0.01      | <0.007105  | <0.007105   | <0.007105  | <0.007105  | <0.007105  |
| Mercury               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.0003     | <0.0003    | <0.0003    | <0.0003    |
| Molybdenum            | mg/L  | <0.002                       | <0.002     | 0.00147    | 0.00124     | 0.00142    | 0.00058    | <0.005075  |
| Selenium              | mg/L  | <0.002                       | <0.002     | <0.000507  | <0.000508   | <0.000508  | <0.000508  | <0.000508  |
| Thallium              | mg/L  | <0.0002                      | <0.0002    | <6.8e-005  | <6.8e-005   | <6.8e-005  | <6.8e-005  | <6.8e-005  |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |             |            |            |            |            |
|-----------------------|-------|------------------------------|------------|-------------|------------|------------|------------|------------|
|                       |       | BY-AP-MW-25V                 |            |             |            |            |            |            |
|                       |       | 06/17/2020                   | 09/02/2020 | 05/24/2021  | 11/02/2021 | 05/25/2022 | 11/01/2022 | 04/03/2023 |
| <b>Appendix III</b>   |       |                              |            |             |            |            |            |            |
| Boron                 | mg/L  | <0.03                        | <0.03      | <0.03       | <0.03      | <0.03      | <0.03      | <0.03      |
| Calcium               | mg/L  | 0.842                        | 0.547      | 0.554       | 0.567      | 0.573      | 0.609      | 0.703      |
| Chloride              | mg/L  | 4.04                         | 3.85       | 3.48        | 3.42       | 3.22       | 3.52       | 3.61       |
| Fluoride              | mg/L  | <0.06                        | <0.06      | <0.06       | <0.06      | <0.06      | <0.06      | <0.06      |
| pH_Field              | SU    | 5.27                         | 5.32       | 5.24        | 5.13       | 5.45       | 4.22       | 4.8        |
| Sulfate               | mg/L  | 2.39                         | 2.26       | 2.59        | 2.08       | 2.13       | 1.85 J     | 2.28       |
| TDS                   | mg/L  | 37.3                         | 34         | 26.7        | 36         | 29.3       | 32         | 29.3       |
| <b>Appendix IV</b>    |       |                              |            |             |            |            |            |            |
| Antimony              | mg/L  | <0.0008                      | <0.0008    | <0.000507   | <0.000508  | <0.000508  | <0.000508  | <0.00071   |
| Arsenic               | mg/L  | <0.001                       | <0.001     | <6.8e-005   | <6.8e-005  | <8.1e-005  | <8.1e-005  | <0.000112  |
| Barium                | mg/L  | 0.0132                       | 0.0111     | 0.00981     | 0.00907    | 0.00993    | 0.0105     | 0.0114     |
| Beryllium             | mg/L  | <0.0006                      | <0.0006    | <0.000406   | <0.000406  | <0.000406  | <0.000406  | <0.000406  |
| Cadmium               | mg/L  | <0.0003                      | <0.0003    | <6.8e-005   | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  |
| Chromium              | mg/L  | <0.002                       | <0.002     | 0.00119     | 0.0013     | 0.00126    | 0.00131    | 0.00123    |
| Cobalt                | mg/L  | 0.0026 J                     | <0.002     | 0.000422    | 0.000366   | 0.00026    | 0.000311   | 0.000352   |
| Combined Radium 226 + | pCi/L | 0.479                        | 0.596      | 0.531 U     | 1.05 U     | 0.527 U    | 0.545 U    | 1.32       |
| Fluoride              | mg/L  | <0.06                        | <0.06      | <0.06       | <0.06      | <0.06      | <0.06      | <0.06      |
| Lead                  | mg/L  | <0.001                       | <0.001     | <6.8e-005   | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  |
| Lithium               | mg/L  | <0.01                        | <0.01      | <0.007105   | <0.007105  | <0.007105  | <0.007105  | <0.007105  |
| Mercury               | mg/L  | <0.0003                      | <0.0003    | <0.0003     | <0.0003    | <0.0003    | <0.0003    | <0.0003    |
| Molybdenum            | mg/L  | <0.002                       | <0.002     | 9.23e-005 J | <6.8e-005  | <0.000102  | <0.000102  | <0.0005075 |
| Selenium              | mg/L  | <0.002                       | <0.002     | <0.000507   | <0.000508  | <0.000508  | <0.000508  | <0.000508  |
| Thallium              | mg/L  | <0.0002                      | <0.0002    | <6.8e-005   | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |             |            |            |            |             |
|-----------------------|-------|------------------------------|------------|------------|------------|-------------|------------|------------|------------|-------------|
|                       |       | BY-AP-MW-17H                 |            |            |            |             |            |            |            |             |
|                       |       | 07/31/2019                   | 10/02/2019 | 04/01/2020 | 09/01/2020 | 05/17/2021  | 10/25/2021 | 05/25/2022 | 10/31/2022 | 04/04/2023  |
| <b>Appendix III</b>   |       |                              |            |            |            |             |            |            |            |             |
| Boron                 | mg/L  | 0.0782 J                     | 0.129      | 0.073 J    | 0.146      | 0.0911 J    | 0.0887 J   | 0.0559 J   | 0.064 J    | 0.0458 J    |
| Calcium               | mg/L  | 19.1                         | 13.2       | 27         | 10.8       | 12.8        | 10.5       | 10.7       | 11.2       | 10.4        |
| Chloride              | mg/L  | 18                           | 17.7       | 17.2       | 18.2       | 17.1        | 18.4       | 16         | 17.1       | 17.6        |
| Fluoride              | mg/L  | 0.178                        | 0.254      | 0.151      | 0.196      | 0.148       | 0.182      | 0.138      | 0.135      | 0.176       |
| pH_Field              | SU    | 6.64                         | 6.58       | 6.52       | 6.56       | 6.35        | 6.48       | 6.21       | 6.34       | 6.25        |
| Sulfate               | mg/L  | 23                           | 10.6       | 19.4       | 7.61       | 10.2        | 24.5       | 3.58       | 13.2       | 17.2        |
| TDS                   | mg/L  | 212                          | 203        | 243        | 236        | 201         | 225        | 194        | 206        | 171         |
| <b>Appendix IV</b>    |       |                              |            |            |            |             |            |            |            |             |
| Antimony              | mg/L  | 0.000878 J                   | <0.0008    | <0.0008    | <0.0008    | <0.000507   | <0.000508  | <0.000508  | <0.000508  | <0.00071    |
| Arsenic               | mg/L  | 0.0221                       | 0.0251     | 0.0208     | 0.0371     | 0.0329      | 0.0373     | 0.03       | 0.0281     | 0.0192      |
| Barium                | mg/L  | 0.138                        | 0.117      | 0.194      | 0.114      | 0.125       | 0.0974     | 0.125      | 0.113      | 0.125       |
| Beryllium             | mg/L  | <0.0006                      | <0.0006    | <0.0006    | <0.0006    | <0.000406   | <0.000406  | <0.000406  | <0.000406  | <0.000406   |
| Cadmium               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.0003    | <6.8e-005   | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005   |
| Chromium              | mg/L  | <0.002                       | <0.002     | <0.002     | <0.002     | 0.000627 J  | 0.000597 J | 0.000334 J | <0.000203  | <0.000203   |
| Cobalt                | mg/L  | <0.002                       | 0.0033 J   | <0.002     | 0.00258 J  | 0.0013      | 0.00369    | 0.0013     | 0.00156    | 0.000766    |
| Combined Radium 226 + | pCi/L | 0.621                        | 1.14       | 0.797      | 0.44 U     | 1.64        | 1.57       | 1.71       | 0.928 U    | 1.09 U      |
| Fluoride              | mg/L  | 0.178                        | 0.254      | 0.151      | 0.196      | 0.148       | 0.182      | 0.138      | 0.135      | 0.176       |
| Lead                  | mg/L  | <0.001                       | <0.001     | <0.001     | <0.001     | 9.09e-005 J | 9.9e-005 J | <6.8e-005  | <6.8e-005  | 7.57e-005 J |
| Lithium               | mg/L  | <0.01                        | <0.01      | <0.01      | <0.01      | <0.007105   | <0.007105  | <0.007105  | <0.007105  | <0.007105   |
| Mercury               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.0003    | <0.0003     | <0.0003    | <0.0003    | <0.0003    | <0.0003     |
| Molybdenum            | mg/L  | <0.002                       | <0.002     | <0.002     | <0.002     | 0.000469    | 0.000779   | 0.000454   | 0.000432   | <0.005075   |
| Selenium              | mg/L  | <0.002                       | <0.002     | <0.002     | <0.002     | <0.000507   | <0.000508  | <0.000508  | <0.000508  | <0.000508   |
| Thallium              | mg/L  | <0.0002                      | <0.0002    | <0.0002    | <0.0002    | <6.8e-005   | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005   |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                       |       | BY-AP-MW-18H                 |            |            |            |            |            |            |            |            |
|                       |       | 03/20/2019                   | 10/01/2019 | 04/01/2020 | 09/01/2020 | 05/19/2021 | 10/25/2021 | 05/23/2022 | 10/31/2022 | 04/05/2023 |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |            |            |
| Boron                 | mg/L  | 0.924                        | 1.05       | 0.435      | 0.855      | 0.866      | 0.934      | 0.91       | 1.64       | 0.0377 J   |
| Calcium               | mg/L  | 28.2                         | 27.2       | 23.1       | 25.6       | 27.1       | 27.1       | 25.3       | 31.3       | 4.89       |
| Chloride              | mg/L  | 17.6                         | 20.1       | 12.2       | 19.8       | 19.3       | 20.2       | 18.9       | 27.1       | 6.46       |
| Fluoride              | mg/L  | 0.126                        | 0.071 J    | 0.0722 J   | 0.0784 J   | 0.0886 J   | 0.0728 J   | 0.0857 J   | 0.148      | 0.0765 J   |
| pH_Field              | SU    | 6.19                         | 6.26       | 6.48       | 6.15       | 6.23       | 6.76       | 6.24       | 6.23       | 6.15       |
| Sulfate               | mg/L  | 12.7                         | 8.49       | 24.2       | 30.6       | 7.48       | 66.8       | 9.46       | 12.1       | 67         |
| TDS                   | mg/L  | 308                          | 283        | 210        | 281        | 293        | 302        | 292        | 303        | 85.3       |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |            |            |
| Antimony              | mg/L  | 0.0011 J                     | <0.0008    | <0.0008    | <0.0008    | <0.000507  | <0.000508  | <0.000508  | <0.000508  | <0.00071   |
| Arsenic               | mg/L  | 0.00835                      | 0.0137     | 0.00937    | 0.015      | 0.0147     | 0.0155     | 0.0143     | 0.00934    | 0.000725   |
| Barium                | mg/L  | 0.154                        | 0.126      | 0.109      | 0.123      | 0.147      | 0.12       | 0.127      | 0.119      | 0.0207     |
| Beryllium             | mg/L  | <0.0006                      | <0.0006    | <0.0006    | <0.0006    | <0.000406  | <0.000406  | <0.000406  | <0.000406  | <0.000406  |
| Cadmium               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.0003    | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  |
| Chromium              | mg/L  | 0.00243 J                    | <0.002     | <0.002     | <0.002     | 0.00132    | 0.00134    | 0.00139    | 0.000591 J | 0.000303 J |
| Cobalt                | mg/L  | <0.002                       | <0.002     | 0.013      | <0.002     | 0.00109    | 0.00101    | 0.00114    | 0.000688   | <6.8e-005  |
| Combined Radium 226 + | pCi/L | 0.473                        | 0.6        | 1.05       | 0.684      | 0.971 U    | 1.2        | 1.03 U     | 0.691 U    | 0.675 U    |
| Fluoride              | mg/L  | 0.126                        | 0.071 J    | 0.0722 J   | 0.0784 J   | 0.0886 J   | 0.0728 J   | 0.0857 J   | 0.148      | 0.0765 J   |
| Lead                  | mg/L  | <0.001                       | <0.001     | <0.001     | <0.001     | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  |
| Lithium               | mg/L  | <0.01                        | <0.01      | <0.01      | <0.01      | <0.007105  | <0.007105  | <0.007105  | <0.007105  | <0.007105  |
| Mercury               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    |
| Molybdenum            | mg/L  | <0.002                       | <0.002     | <0.002     | <0.002     | 0.00025    | 0.000249   | 0.000389   | 0.000195 J | <0.005075  |
| Selenium              | mg/L  | <0.002                       | <0.002     | <0.002     | <0.002     | <0.000507  | <0.000508  | <0.000508  | <0.000508  | <0.000508  |
| Thallium              | mg/L  | <0.0002                      | <0.0002    | <0.0002    | <0.0002    | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |             |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|-------------|------------|------------|------------|
|                       |       | BY-AP-MW-19H                 |            |            |            |            |             |            |            |            |
|                       |       | 07/31/2019                   | 10/01/2019 | 05/12/2020 | 09/01/2020 | 05/25/2021 | 10/25/2021  | 05/24/2022 | 10/31/2022 | 04/24/2023 |
| <b>Appendix III</b>   |       |                              |            |            |            |            |             |            |            |            |
| Boron                 | mg/L  | 0.848                        | 0.931      | 1.22       | 0.895      | 0.252      | 0.142       | 0.159      | 0.63       | 0.88       |
| Calcium               | mg/L  | 31.8                         | 31.1       | 34.2       | 31.6       | 23.9       | 18.3        | 19.2       | 31.7       | 28.5       |
| Chloride              | mg/L  | 16.4                         | 16.8       | 17.9       | 17.6       | 10.7       | 10.1        | 10.4       | 15.2       | 15.2       |
| Fluoride              | mg/L  | 0.089 J                      | 0.0712 J   | 0.0732 J   | 0.0752 J   | 0.0673 J   | <0.06       | <0.06      | <0.06      | 0.083 J    |
| pH_Field              | SU    | 6.21                         | 6.33       | 6.09       | 6.31       | 6.1        | 6.13        | 5.8        | 6.1        | 6.35       |
| Sulfate               | mg/L  | 11.3                         | 5.9        | 22.9       | 16.9       | 26.6       | 28.7        | 34.7       | 23         | 38.7       |
| TDS                   | mg/L  | 312                          | 316        | 321        | 294        | 162        | 123         | 133        | 249        | 261        |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |             |            |            |            |
| Antimony              | mg/L  | 0.00137 J                    | <0.0008    | <0.0008    | <0.0008    | <0.000507  | <0.000508   | <0.000508  | <0.000508  | <0.00071   |
| Arsenic               | mg/L  | <0.001                       | <0.001     | <0.001     | 0.00101 J  | 0.0015     | 0.00134     | 0.000993   | 0.000914   | 0.000745   |
| Barium                | mg/L  | 0.137                        | 0.113      | 0.167      | 0.159      | 0.104      | 0.0738      | 0.0796     | 0.123      | 0.136      |
| Beryllium             | mg/L  | <0.0006                      | <0.0006    | <0.0006    | <0.0006    | <0.000406  | <0.000406   | <0.000406  | <0.000406  | <0.000406  |
| Cadmium               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.0003    | <6.8e-005  | <6.8e-005   | <6.8e-005  | <6.8e-005  | <6.8e-005  |
| Chromium              | mg/L  | <0.002                       | <0.002     | <0.002     | <0.002     | 0.000391 J | 0.00044 J   | 0.000423 J | 0.000329 J | 0.000336 J |
| Cobalt                | mg/L  | <0.002                       | <0.002     | <0.002     | <0.002     | 0.00294    | 0.00501     | 0.00546    | 0.000498   | 0.00147    |
| Combined Radium 226 + | pCi/L | 0.272 U                      | 0.817      | 0.691      | 0.675      | 1.04 U     | 1.03 U      | 1.06 U     | 1.11       | 1.35       |
| Fluoride              | mg/L  | 0.089 J                      | 0.0712 J   | 0.0732 J   | 0.0752 J   | 0.0673 J   | <0.06       | <0.06      | <0.06      | 0.083 J    |
| Lead                  | mg/L  | <0.001                       | <0.001     | <0.001     | <0.001     | <6.8e-005  | <6.8e-005   | <6.8e-005  | <6.8e-005  | <6.8e-005  |
| Lithium               | mg/L  | <0.01                        | <0.01      | <0.01      | <0.01      | <0.007105  | <0.007105   | <0.007105  | <0.007105  | <0.007105  |
| Mercury               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003     | <0.0003    | <0.0003    | <0.0003    |
| Molybdenum            | mg/L  | <0.002                       | <0.002     | <0.002     | <0.002     | 0.000124 J | 8.42e-005 J | <0.000102  | 0.000139 J | <0.0005075 |
| Selenium              | mg/L  | <0.002                       | <0.002     | <0.002     | <0.002     | <0.000507  | <0.000508   | 0.000636 J | <0.000508  | <0.000508  |
| Thallium              | mg/L  | <0.0002                      | <0.0002    | <0.0002    | <0.0002    | <6.8e-005  | <6.8e-005   | <6.8e-005  | <6.8e-005  | <6.8e-005  |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                       |       | BY-AP-MW-20H                 |            |            |            |            |            |            |            |            |
|                       |       | 07/31/2019                   | 10/01/2019 | 04/01/2020 | 09/01/2020 | 05/19/2021 | 10/26/2021 | 05/23/2022 | 10/31/2022 | 04/24/2023 |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |            |            |
| Boron                 | mg/L  | 0.0707 J                     | 0.101      | 0.046 J    | 0.106      | 0.0909 J   | 0.0784 J   | 0.0653 J   | 0.0767 J   | 0.0698 J   |
| Calcium               | mg/L  | 30.3                         | 29.4       | 26         | 28.8       | 30.9       | 30.2       | 28.6       | 28         | 28.1       |
| Chloride              | mg/L  | 33.4                         | 44.7       | 23.1       | 34.6       | 36.2       | 34         | 44.1       | 35.3       | 37.6       |
| Fluoride              | mg/L  | 0.0934 J                     | 0.0838 J   | 0.0793 J   | 0.0954 J   | 0.0852 J   | 0.114      | 0.124 J    | 0.0822 J   | 0.0659 J   |
| pH_Field              | SU    | 6.22                         | 6.24       | 6.45       | 6.15       | 6.17       | 6.49       | 6.15       | 6.12       | 6.16       |
| Sulfate               | mg/L  | 83.2                         | 28.9       | 18.7       | 43.5       | 59.5       | 73.2       | 95.1       | 103        | 63.6       |
| TDS                   | mg/L  | 481                          | 470        | 319        | 479        | 479        | 493        | 462        | 482        | 473        |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |            |            |
| Antimony              | mg/L  | 0.00113 J                    | <0.0008    | <0.0008    | <0.0008    | <0.000507  | <0.000508  | <0.000508  | <0.000508  | <0.00071   |
| Arsenic               | mg/L  | 0.0112                       | 0.013      | 0.00508    | 0.0172     | 0.0132     | 0.0133     | 0.0136     | 0.0126     | 0.0133     |
| Barium                | mg/L  | 0.0928                       | 0.0913     | 0.119      | 0.11       | 0.111      | 0.0936     | 0.0963     | 0.0954     | 0.0958     |
| Beryllium             | mg/L  | <0.0006                      | <0.0006    | <0.0006    | <0.0006    | <0.000406  | <0.000406  | <0.000406  | <0.000406  | <0.000406  |
| Cadmium               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.0003    | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  |
| Chromium              | mg/L  | 0.00209 J                    | 0.0025 J   | <0.002     | 0.00283 J  | 0.00284    | 0.00261    | 0.00233    | 0.00218    | 0.00239    |
| Cobalt                | mg/L  | 0.00433 J                    | 0.00431 J  | 0.00541    | 0.0046 J   | 0.00426    | 0.00447    | 0.00423    | 0.00455    | 0.0043     |
| Combined Radium 226 + | pCi/L | 0.268 U                      | 1.22       | 0.968      | 0.39 U     | 1.03 U     | 1.28 U     | 0.657 U    | 1.15       | 1.17       |
| Fluoride              | mg/L  | 0.0934 J                     | 0.0838 J   | 0.0793 J   | 0.0954 J   | 0.0852 J   | 0.114      | 0.124 J    | 0.0822 J   | 0.0659 J   |
| Lead                  | mg/L  | <0.001                       | <0.001     | <0.001     | <0.001     | 0.000224   | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  |
| Lithium               | mg/L  | <0.01                        | <0.01      | <0.01      | <0.01      | <0.007105  | <0.007105  | <0.007105  | <0.007105  | <0.007105  |
| Mercury               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    |
| Molybdenum            | mg/L  | <0.002                       | <0.002     | <0.002     | <0.002     | 0.000503   | 0.000482   | 0.000537   | 0.000556   | <0.005075  |
| Selenium              | mg/L  | <0.002                       | <0.002     | <0.002     | <0.002     | <0.000507  | <0.000508  | 0.000538 J | <0.000508  | <0.000508  |
| Thallium              | mg/L  | <0.0002                      | <0.0002    | <0.0002    | <0.0002    | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  |

**Notes:**

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





**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                       |       | BY-AP-MW-22H                 |            |            |            |            |            |            |            |            |
|                       |       | 07/31/2019                   | 10/01/2019 | 05/12/2020 | 09/01/2020 | 05/25/2021 | 10/26/2021 | 05/24/2022 | 10/31/2022 | 04/24/2023 |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |            |            |
| Boron                 | mg/L  | 0.0643 J                     | 0.105      | 0.0807 J   | 0.115      | 0.0889 J   | 0.0725 J   | 0.0562 J   | 0.0703 J   | 0.0689 J   |
| Calcium               | mg/L  | 15                           | 15.5       | 15         | 14.8       | 15.2       | 15.1       | 14.5       | 15.1       | 14.3       |
| Chloride              | mg/L  | 60.3                         | 70         | 58.3       | 59.9       | 65.4       | 54.5       | 57.1       | 61.6       | 63.7       |
| Fluoride              | mg/L  | 0.257                        | 0.268      | 0.323      | 0.301      | 0.282      | 0.323      | 0.318      | 0.257      | 0.255      |
| pH_Field              | SU    | 6.54                         | 6.6        | 6.55       | 6.48       | 6.44       | 6.86       | 6.57       | 6.46       | 6.46       |
| Sulfate               | mg/L  | 171                          | 17.2       | 59.5       | 93.2       | 72.3       | 140        | 103        | 110        | 152        |
| TDS                   | mg/L  | 345                          | 346        | 337        | 362        | 378        | 362        | 372        | 363        | 355        |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |            |            |
| Antimony              | mg/L  | 0.00117 J                    | <0.0008    | <0.0008    | <0.0008    | <0.000507  | <0.000508  | <0.000508  | <0.000508  | <0.00071   |
| Arsenic               | mg/L  | 0.0225                       | 0.0225     | 0.0199     | 0.0217     | 0.0191     | 0.0202     | 0.0185     | 0.0181     | 0.0191     |
| Barium                | mg/L  | 0.185                        | 0.213      | 0.222      | 0.234      | 0.261      | 0.202      | 0.217      | 0.211      | 0.214      |
| Beryllium             | mg/L  | <0.0006                      | <0.0006    | <0.0006    | <0.0006    | <0.000406  | <0.000406  | <0.000406  | <0.000406  | <0.000406  |
| Cadmium               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.0003    | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  |
| Chromium              | mg/L  | <0.002                       | <0.002     | <0.002     | <0.002     | 0.000667 J | 0.000618 J | 0.000566 J | 0.000379 J | 0.000462 J |
| Cobalt                | mg/L  | 0.00233 J                    | 0.00268 J  | 0.00281 J  | 0.00294 J  | 0.00264    | 0.00285    | 0.0027     | 0.00273    | 0.00266    |
| Combined Radium 226 + | pCi/L | 0.448                        | 0.508      | 0.61       | 0.419 U    | 1.26       | 1.52       | 0.656 U    | 0.454 U    | 1 U        |
| Fluoride              | mg/L  | 0.257                        | 0.268      | 0.323      | 0.301      | 0.282      | 0.323      | 0.318      | 0.257      | 0.255      |
| Lead                  | mg/L  | <0.001                       | <0.001     | <0.001     | <0.001     | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  |
| Lithium               | mg/L  | <0.01                        | <0.01      | <0.01      | <0.01      | <0.007105  | <0.007105  | <0.007105  | <0.007105  | <0.007105  |
| Mercury               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    |
| Molybdenum            | mg/L  | 0.00426 J                    | <0.002     | <0.002     | <0.002     | 0.00137    | 0.00136    | 0.00145    | 0.00132    | <0.005075  |
| Selenium              | mg/L  | <0.002                       | <0.002     | <0.002     | <0.002     | <0.000507  | <0.000508  | <0.000508  | <0.000508  | <0.000508  |
| Thallium              | mg/L  | <0.0002                      | <0.0002    | <0.0002    | <0.0002    | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                       |       | BY-AP-MW-23H                 |            |            |            |            |            |            |            |            |
|                       |       | 07/31/2019                   | 10/01/2019 | 04/01/2020 | 09/01/2020 | 05/24/2021 | 10/26/2021 | 05/25/2022 | 11/01/2022 | 04/04/2023 |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |            |            |
| Boron                 | mg/L  | 0.0531 J                     | 0.0856 J   | <0.03      | 0.0943 J   | 0.0785 J   | 0.0709 J   | 0.0526 J   | 0.0382 J   | 0.0472 J   |
| Calcium               | mg/L  | 25.8                         | 27.2       | 15.8       | 35.8       | 27.1       | 29.4       | 22.4       | 24.4       | 23         |
| Chloride              | mg/L  | 8.03                         | 6.7        | 4.46       | 6.96       | 6.33       | 5.64       | 6.63       | 7.77       | 9.01       |
| Fluoride              | mg/L  | 0.0766 J                     | 0.0804 J   | 0.0607 J   | 0.0919 J   | 0.0734 J   | 0.0709 J   | <0.06      | <0.06      | 0.0744 J   |
| pH_Field              | SU    | 6.08                         | 6.03       | 6.44       | 6.14       | 6.19       | 6.54       | 5.92       | 6          | 5.94       |
| Sulfate               | mg/L  | 18.4                         | 4.89       | 18.1       | 24.5       | 3.99       | 29.5       | 4.01       | 5.74       | 15.2       |
| TDS                   | mg/L  | 241                          | 261        | 105        | 271        | 244        | 252        | 236        | 228        | 216        |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |            |            |
| Antimony              | mg/L  | 0.000964 J                   | <0.0008    | <0.0008    | <0.0008    | <0.000507  | <0.000508  | <0.000508  | <0.000508  | <0.00071   |
| Arsenic               | mg/L  | 0.0132                       | 0.013      | 0.00689    | 0.0226     | 0.0133     | 0.00807    | 0.00478    | 0.00463    | 0.00291    |
| Barium                | mg/L  | 0.162                        | 0.175      | 0.0629     | 0.182      | 0.208      | 0.188      | 0.176      | 0.176      | 0.159      |
| Beryllium             | mg/L  | <0.0006                      | <0.0006    | <0.0006    | <0.0006    | <0.000406  | <0.000406  | <0.000406  | <0.000406  | <0.000406  |
| Cadmium               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.0003    | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  |
| Chromium              | mg/L  | <0.002                       | <0.002     | <0.002     | <0.002     | 0.000814 J | 0.000696 J | 0.000604 J | 0.000342 J | 0.000432 J |
| Cobalt                | mg/L  | 0.0031 J                     | 0.00201 J  | 0.0206     | 0.0273     | 0.00682    | 0.00495    | 0.00189    | 0.000639   | 0.000523   |
| Combined Radium 226 + | pCi/L | 0.331 U                      | 1.05       | 0.618      | 0.224 U    | 1.1 U      | 1.13 U     | 0.674 U    | 0.583 U    | 0.92 U     |
| Fluoride              | mg/L  | 0.0766 J                     | 0.0804 J   | 0.0607 J   | 0.0919 J   | 0.0734 J   | 0.0709 J   | <0.06      | <0.06      | 0.0744 J   |
| Lead                  | mg/L  | <0.001                       | <0.001     | <0.001     | <0.001     | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  |
| Lithium               | mg/L  | <0.01                        | <0.01      | <0.01      | <0.01      | <0.007105  | <0.007105  | <0.007105  | <0.007105  | <0.007105  |
| Mercury               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    |
| Molybdenum            | mg/L  | <0.002                       | <0.002     | <0.002     | <0.002     | 0.00069    | 0.00035    | 0.000157 J | <0.000102  | <0.005075  |
| Selenium              | mg/L  | <0.002                       | <0.002     | <0.002     | <0.002     | <0.000507  | <0.000508  | <0.000508  | <0.000508  | <0.000508  |
| Thallium              | mg/L  | <0.0002                      | <0.0002    | <0.0002    | <0.0002    | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |            |            |            |            |            |            |            |
|-----------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                       |       | BY-AP-MW-24H                 |            |            |            |            |            |            |            |            |
|                       |       | 01/08/2019                   | 10/02/2019 | 03/31/2020 | 09/02/2020 | 05/25/2021 | 10/26/2021 | 05/24/2022 | 11/02/2022 | 04/03/2023 |
| <b>Appendix III</b>   |       |                              |            |            |            |            |            |            |            |            |
| Boron                 | mg/L  | 0.213                        | 0.344      | 0.325      | 0.382      | 0.37       | 0.354      | 0.351      | 0.339      | 0.382      |
| Calcium               | mg/L  | 38                           | 18.4       | 18.1       | 17.6       | 18.6       | 18.4       | 17.5       | 17.6       | 18.1       |
| Chloride              | mg/L  | 44.6                         | 53         | 47.5       | 43.7       | 46         | 41.6       | 45.7       | 45.4       | 45.5       |
| Fluoride              | mg/L  | 0.147                        | 0.183      | 0.148      | 0.158      | 0.156      | 0.158      | 0.135      | 0.131      | 0.175      |
| pH_Field              | SU    | 6.51                         | 6.21       | 6.23       | 6.01       | 6.16       | 6.2        | 6.22       | 6.05       | 6.08       |
| Sulfate               | mg/L  | 31.2                         | 92.3       | 84.5       | 59.7       | 17         | 122        | 24.3       | 19.9       | 94         |
| TDS                   | mg/L  | 504                          | 430        | 418        | 471        | 420        | 448        | 383        | 446        | 450        |
| <b>Appendix IV</b>    |       |                              |            |            |            |            |            |            |            |            |
| Antimony              | mg/L  | 0.00116 J                    | <0.0008    | <0.0008    | <0.0008    | <0.000507  | <0.000508  | <0.000508  | <0.000508  | <0.00071   |
| Arsenic               | mg/L  | 0.0306                       | 0.0673     | 0.0729     | 0.0783     | 0.0693     | 0.0752     | 0.0718     | 0.0664     | 0.0694     |
| Barium                | mg/L  | 0.294                        | 0.229      | 0.243      | 0.26       | 0.26       | 0.238      | 0.245      | 0.23       | 0.232      |
| Beryllium             | mg/L  | <0.0006                      | <0.0006    | <0.0006    | <0.0006    | <0.000406  | <0.000406  | <0.000406  | <0.000406  | <0.000406  |
| Cadmium               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.0003    | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  |
| Chromium              | mg/L  | <0.002                       | <0.002     | <0.002     | <0.002     | 0.000878 J | 0.00104    | 0.000881 J | 0.000675 J | 0.000773 J |
| Cobalt                | mg/L  | 0.00243 J                    | 0.00513    | 0.00528    | 0.0061     | 0.00542    | 0.00591    | 0.0057     | 0.00538    | 0.00563    |
| Combined Radium 226 + | pCi/L | 1.49                         | 1.24       | 0.577      | 1.5 U      | 0.695 U    | 0.987 U    | 1.08 U     | 1.05       | 1.46       |
| Fluoride              | mg/L  | 0.147                        | 0.183      | 0.148      | 0.158      | 0.156      | 0.158      | 0.135      | 0.131      | 0.175      |
| Lead                  | mg/L  | <0.001                       | <0.001     | <0.001     | <0.001     | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  |
| Lithium               | mg/L  | 0.0183 J                     | <0.01      | <0.01      | <0.01      | <0.007105  | <0.007105  | <0.007105  | <0.007105  | <0.007105  |
| Mercury               | mg/L  | <0.0003                      | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    | <0.0003    |
| Molybdenum            | mg/L  | 0.00399 J                    | <0.002     | <0.002     | <0.002     | 0.000869   | 0.000964   | 0.000923   | 0.00104    | <0.005075  |
| Selenium              | mg/L  | <0.002                       | <0.002     | <0.002     | <0.002     | <0.000507  | <0.000508  | <0.000508  | <0.000508  | <0.000508  |
| Thallium              | mg/L  | <0.0002                      | <0.0002    | <0.0002    | <0.0002    | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  | <6.8e-005  |

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/23/2016 - 04/24/2023)**  
**APC Plant Barry**  
**Mobile County Alabama**

| Analyte               | Units | GROUNDWATER MONITORING WELLS |            |             |            |            |             |            |
|-----------------------|-------|------------------------------|------------|-------------|------------|------------|-------------|------------|
|                       |       | BY-AP-MW-25H                 |            |             |            |            |             |            |
|                       |       | 06/17/2020                   | 09/02/2020 | 05/24/2021  | 11/02/2021 | 05/25/2022 | 10/31/2022  | 04/03/2023 |
| <b>Appendix III</b>   |       |                              |            |             |            |            |             |            |
| Boron                 | mg/L  | <0.03                        | <0.03      | <0.03       | <0.03      | <0.03      | <0.03       | <0.03      |
| Calcium               | mg/L  | 0.793                        | 0.875      | 0.905       | 1.05       | 0.949      | 0.951       | 0.997      |
| Chloride              | mg/L  | 4.81                         | 4.62       | 4.72        | 5.07       | 5.32       | 5.67        | 5.54       |
| Fluoride              | mg/L  | <0.06                        | <0.06      | <0.06       | <0.06      | <0.06      | <0.06       | <0.06      |
| pH_Field              | SU    | 5.27                         | 5.39       | 4.12        | 5.01       | 5.23       | 5.11        | 4.65       |
| Sulfate               | mg/L  | 6.1                          | 4.39       | 4.94        | 4.28       | 4.24       | 4.57        | 4.48       |
| TDS                   | mg/L  | 44                           | 36         | 39.3        | 34.7       | 37.3       | 40          | 40         |
| <b>Appendix IV</b>    |       |                              |            |             |            |            |             |            |
| Antimony              | mg/L  | <0.0008                      | <0.0008    | <0.000507   | <0.000508  | <0.000508  | <0.000508   | <0.00071   |
| Arsenic               | mg/L  | <0.001                       | <0.001     | 8.73e-005 J | 0.000162 J | 0.000196 J | 8.69e-005 J | 0.000149 J |
| Barium                | mg/L  | 0.0189                       | 0.0204     | 0.0206      | 0.0203     | 0.0197     | 0.0198      | 0.0211     |
| Beryllium             | mg/L  | <0.0006                      | <0.0006    | <0.000406   | <0.000406  | <0.000406  | <0.000406   | <0.000406  |
| Cadmium               | mg/L  | <0.0003                      | <0.0003    | <6.8e-005   | <6.8e-005  | <6.8e-005  | <6.8e-005   | <6.8e-005  |
| Chromium              | mg/L  | <0.002                       | <0.002     | 0.00117     | 0.000976 J | 0.00104    | 0.000938 J  | 0.00122    |
| Cobalt                | mg/L  | <0.002                       | 0.00246 J  | 0.00156     | 0.00146    | 0.00119    | 0.00135     | 0.00125    |
| Combined Radium 226 + | pCi/L | 0.554                        | 0.0187 U   | 0.545 U     | 0.707 U    | 0.682 U    | 0.793 U     | 0.724 U    |
| Fluoride              | mg/L  | <0.06                        | <0.06      | <0.06       | <0.06      | <0.06      | <0.06       | <0.06      |
| Lead                  | mg/L  | <0.001                       | <0.001     | <6.8e-005   | <6.8e-005  | <6.8e-005  | <6.8e-005   | <6.8e-005  |
| Lithium               | mg/L  | <0.01                        | <0.01      | <0.007105   | <0.007105  | <0.007105  | <0.007105   | <0.007105  |
| Mercury               | mg/L  | <0.0003                      | <0.0003    | <0.0003     | <0.0003    | <0.0003    | <0.0003     | <0.0003    |
| Molybdenum            | mg/L  | <0.002                       | <0.002     | 0.000102 J  | 0.00014 J  | 0.000103 J | <0.000102   | <0.000575  |
| Selenium              | mg/L  | <0.002                       | <0.002     | <0.000507   | <0.000508  | <0.000508  | <0.000508   | <0.000508  |
| Thallium              | mg/L  | <0.0002                      | <0.0002    | <6.8e-005   | <6.8e-005  | <6.8e-005  | <6.8e-005   | <6.8e-005  |

**Notes:**

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

# Appendix B



**Appendix B. Historical Groundwater Elevations Summary**

Plant Barry Ash Pond  
02/22/2016 - 06/11/2023

| Well        | Hydraulic Location | Geologic Unit                   | Measure Date |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-------------|--------------------|---------------------------------|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|             |                    |                                 | 02/22/16     | 02/29/16 | 04/18/16 | 06/06/16 | 06/07/16 | 08/29/16 | 08/30/16 | 10/17/16 | 01/30/17 | 01/31/17 | 03/20/17 | 05/01/17 | 06/05/17 | 09/12/17 | 11/15/17 | 01/22/18 | 04/30/18 | 08/27/18 |
| BY-UP-MW-1  | Upgradient         | Unit 2: Mixed Sand and Clay     | 7.73         | NM       | 7.92     | 5.81     | NM       | 5.13     | NM       | 4.59     | 6.94     | NM       | 5.42     | 5.51     | 6.64     | 5.45     | 5.43     | 4.75     | 6.83     | 5.22     |
| BY-UP-MW-2  | Upgradient         | Unit 2: Mixed Sand and Clay     | 7.55         | NM       | 7.77     | 5.75     | NM       | 5.04     | NM       | 4.50     | 6.82     | NM       | 5.30     | 5.48     | 6.45     | 5.30     | 5.28     | 4.68     | 6.66     | 5.06     |
| BY-UP-MW-3  | Upgradient         | Unit 2: Mixed Sand and Clay     | 8.19         | NM       | 8.45     | 6.52     | NM       | 5.78     | NM       | 5.19     | 7.55     | NM       | 6.04     | 6.16     | 7.39     | 6.16     | 6.08     | 5.46     | 7.19     | 5.76     |
| BY-UP-MW-4  | Upgradient         | Unit 2: Mixed Sand and Clay     | 7.83         | NM       | 8.13     | 6.21     | NM       | 5.47     | NM       | 4.93     | 7.25     | NM       | 5.71     | 5.98     | 6.87     | 5.74     | 5.69     | 5.18     | 6.99     | 5.47     |
| BY-AP-MW-1  | Downgradient       | Unit 2: Upper Sand              | 8.19         | NM       | 7.23     | NM       | 4.52     | NM       | 4.12     | 2.86     | NM       | 6.90     | 4.27     | 4.49     | 5.11     | 3.46     | NM       | 3.67     | 6.52     | 4.19     |
| BY-AP-MW-2  | Downgradient       | Unit 2 - Unit 3 Transition Zone | 7.59         | NM       | 6.58     | NM       | 3.51     | NM       | 3.03     | 2.61     | NM       | 5.79     | 2.99     | 3.95     | 4.13     | 2.49     | NM       | 2.47     | 5.84     | 2.95     |
| BY-AP-MW-3  | Downgradient       | Unit 2 - Unit 3 Transition Zone | NM           | 7.53     | 6.53     | NM       | 3.35     | NM       | 2.84     | 2.43     | NM       | 5.73     | 2.85     | 3.81     | 4.00     | 2.31     | NM       | 2.31     | 5.78     | 2.83     |
| BY-AP-MW-4  | Downgradient       | Unit 2 - Unit 3 Transition Zone | NM           | 7.41     | 6.36     | NM       | 3.12     | NM       | 2.68     | 2.10     | NM       | 5.56     | 2.62     | 3.54     | 3.73     | 2.88     | NM       | 2.04     | 5.62     | 2.62     |
| BY-AP-MW-5  | Downgradient       | Unit 2: Mixed Sand and Clay     | NM           | 7.39     | 6.24     | NM       | 2.78     | NM       | 2.46     | 1.80     | NM       | 5.35     | 2.44     | 3.27     | 3.43     | 1.58     | NM       | 1.78     | 5.49     | 2.48     |
| BY-AP-MW-6  | Downgradient       | Unit 3: Sands                   | NM           | 7.48     | 6.34     | NM       | 2.87     | NM       | 2.46     | 1.66     | NM       | 5.36     | 2.33     | 3.20     | 3.36     | 1.36     | NM       | 1.63     | 5.58     | 2.33     |
| BY-AP-MW-7  | Downgradient       | Unit 3: Sands                   | NM           | 7.86     | 6.51     | NM       | 2.74     | NM       | 2.52     | 1.52     | NM       | 5.52     | 2.28     | 3.15     | 3.40     | 1.25     | NM       | 1.81     | 5.82     | 2.29     |
| BY-AP-MW-8  | Downgradient       | Unit 2: Mixed Sand and Clay     | NM           | 7.90     | 6.36     | NM       | 2.48     | NM       | 2.34     | 1.19     | NM       | 5.35     | 2.06     | 2.91     | 3.16     | 0.92     | NM       | 1.32     | 5.56     | 2.14     |
| BY-AP-MW-9  | Downgradient       | Unit 2: Mixed Sand and Clay     | NM           | 7.64     | 6.16     | NM       | 2.54     | NM       | 2.17     | 1.08     | NM       | 5.09     | 1.85     | 2.77     | 3.00     | 0.74     | NM       | 1.09     | 5.33     | 1.90     |
| BY-AP-MW-10 | Downgradient       | Unit 2 - Unit 3 Transition Zone | NM           | 7.77     | 6.29     | NM       | 2.74     | NM       | 2.35     | 1.19     | NM       | 5.19     | 2.01     | 2.88     | 3.14     | 0.88     | NM       | 1.26     | 5.47     | 2.07     |
| BY-AP-MW-11 | Downgradient       | Unit 2 - Unit 3 Transition Zone | NM           | 7.82     | 6.36     | NM       | 2.89     | NM       | 2.48     | 1.34     | NM       | 5.28     | 2.23     | 3.00     | 3.25     | 1.04     | NM       | 1.52     | 5.60     | 2.26     |
| BY-AP-MW-12 | Downgradient       | Unit 3: Sands                   | NM           | 7.43     | 6.00     | NM       | 2.56     | NM       | 2.16     | 1.07     | NM       | 4.93     | 1.91     | 2.67     | 2.93     | 0.73     | NM       | 1.19     | 5.23     | 1.99     |
| BY-AP-MW-13 | Downgradient       | Unit 2 - Unit 3 Transition Zone | NM           | 7.49     | 6.06     | NM       | 2.67     | NM       | 2.28     | 1.14     | NM       | 4.98     | 1.99     | 2.74     | 3.01     | 0.81     | NM       | 1.17     | 5.28     | 2.10     |

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



**Appendix B. Historical Groundwater Elevations Summary**

Plant Barry Ash Pond  
02/22/2016 - 06/11/2023

| Well        | Hydraulic Location | Geologic Unit                   | Measure Date |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-------------|--------------------|---------------------------------|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|             |                    |                                 | 11/26/18     | 03/20/19 | 05/28/19 | 09/30/19 | 10/02/19 | 03/30/20 | 05/12/20 | 06/15/20 | 08/31/20 | 09/08/20 | 05/11/21 | 05/12/21 | 05/24/21 | 10/18/21 | 05/23/22 | 10/31/22 | 04/03/23 | 04/11/23 | 06/11/23 |
| BY-UP-MW-1  | Upgradient         | Unit 2: Mixed Sand and Clay     | 5.84         | NM       | 6.60     | NM       | 4.78     | 8.38     | NM       | NM       | NM       | 5.31     | 7.41     | NM       | 7.13     | 6.64     | 6.17     | 5.04     | 7.31     | 7.25     | 5.46     |
| BY-UP-MW-2  | Upgradient         | Unit 2: Mixed Sand and Clay     | 5.73         | NM       | 6.32     | NM       | 4.71     | 8.05     | NM       | NM       | NM       | 5.16     | 7.25     | NM       | 6.80     | 6.40     | 6.03     | 5.00     | 7.25     | 7.09     | 5.35     |
| BY-UP-MW-3  | Upgradient         | Unit 2: Mixed Sand and Clay     | 6.40         | NM       | 7.02     | NM       | 5.37     | 8.54     | NM       | NM       | NM       | 5.83     | 8.03     | NM       | 7.49     | 7.19     | 6.75     | 5.79     | 7.80     | 7.63     | 6.03     |
| BY-UP-MW-4  | Upgradient         | Unit 2: Mixed Sand and Clay     | 6.13         | NM       | 6.57     | NM       | 5.16     | 8.20     | NM       | NM       | NM       | 5.53     | NM       | NM       | 6.99     | 6.68     | 6.37     | 5.53     | 7.74     | 7.39     | 5.78     |
| BY-AP-MW-1  | Downgradient       | Unit 2: Upper Sand              | 5.10         | 7.53     | 4.33     | 3.40     | NM       | 6.97     | 4.38     | 5.02     | 5.02     | NM       | NM       | 7.35     | 5.28     | 5.06     | 4.57     | 3.11     | 5.83     | NM       | 3.09     |
| BY-AP-MW-2  | Downgradient       | Unit 2 - Unit 3 Transition Zone | 4.26         | 6.99     | 3.55     | 2.74     | NM       | 6.53     | 3.55     | 3.81     | 3.84     | NM       | NM       | 6.73     | 3.96     | 3.63     | 3.57     | 3.61     | 6.70     | NM       | 3.12     |
| BY-AP-MW-3  | Downgradient       | Unit 2 - Unit 3 Transition Zone | 4.09         | 6.86     | 3.41     | 2.60     | NM       | 6.46     | 3.39     | 3.70     | 3.84     | NM       | NM       | 6.67     | 3.84     | 3.47     | 3.59     | 3.52     | 6.65     | NM       | 3.29     |
| BY-AP-MW-4  | Downgradient       | Unit 2 - Unit 3 Transition Zone | 3.84         | 6.63     | 3.14     | 2.33     | NM       | 6.21     | 3.06     | 3.39     | 3.60     | NM       | NM       | 6.47     | 3.57     | 3.15     | 3.31     | 3.03     | 6.73     | NM       | 2.77     |
| BY-AP-MW-5  | Downgradient       | Unit 2: Mixed Sand and Clay     | 3.53         | 6.43     | 2.89     | 2.08     | NM       | 5.90     | 2.66     | 3.00     | 3.29     | NM       | NM       | 6.25     | NM       | 2.81     | 2.84     | 2.55     | 6.61     | NM       | 2.34     |
| BY-AP-MW-6  | Downgradient       | Unit 3: Sands                   | 3.60         | 6.45     | 2.66     | 1.91     | NM       | 6.10     | 2.51     | 2.85     | 3.30     | NM       | NM       | 6.44     | 3.04     | 2.64     | 2.60     | 2.47     | 6.77     | NM       | 2.15     |
| BY-AP-MW-7  | Downgradient       | Unit 3: Sands                   | 3.51         | 6.60     | 2.47     | 1.69     | NM       | 6.25     | 2.31     | 2.90     | 3.35     | NM       | NM       | 6.82     | 2.53     | 2.21     | 2.35     | 2.67     | 7.03     | NM       | 1.78     |
| BY-AP-MW-8  | Downgradient       | Unit 2: Mixed Sand and Clay     | 3.17         | 6.37     | 2.17     | 1.32     | NM       | 5.89     | 1.53     | 2.41     | 3.21     | NM       | NM       | 9.65     | 2.35     | 4.96     | 2.16     | 1.94     | 6.89     | NM       | 1.37     |
| BY-AP-MW-9  | Downgradient       | Unit 2: Mixed Sand and Clay     | 3.15         | 6.17     | 1.96     | 1.26     | NM       | 5.83     | 1.47     | 2.36     | 2.97     | NM       | NM       | 6.30     | 2.36     | 2.05     | 2.24     | 1.87     | 6.81     | NM       | 1.33     |
| BY-AP-MW-10 | Downgradient       | Unit 2 - Unit 3 Transition Zone | 3.09         | 6.26     | 2.12     | 1.34     | NM       | 4.96     | 1.58     | 2.46     | 3.11     | NM       | NM       | 8.95     | 2.17     | 1.89     | 1.95     | 1.58     | 5.66     | NM       | 1.18     |
| BY-AP-MW-11 | Downgradient       | Unit 2 - Unit 3 Transition Zone | 3.20         | 6.41     | 2.32     | 1.54     | NM       | 5.94     | 1.64     | 2.50     | 3.16     | NM       | NM       | 9.16     | 2.41     | 2.06     | 2.69     | 1.63     | 6.71     | NM       | 1.45     |
| BY-AP-MW-12 | Downgradient       | Unit 3: Sands                   | 2.86         | 5.98     | 1.97     | 1.26     | NM       | 6.02     | 1.52     | 2.31     | 2.95     | NM       | NM       | 6.20     | 2.48     | 2.13     | 2.63     | 1.72     | 6.78     | NM       | 1.53     |
| BY-AP-MW-13 | Downgradient       | Unit 2 - Unit 3 Transition Zone | 2.94         | 6.09     | 2.11     | 1.42     | NM       | 5.83     | 1.68     | 2.43     | 3.11     | NM       | NM       | 6.33     | 2.64     | 2.29     | 2.84     | 1.85     | 6.94     | NM       | 1.67     |

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



**Appendix B. Historical Groundwater Elevations Summary**

Plant Barry Ash Pond  
02/22/2016 - 06/11/2023

| Well         | Hydraulic Location   | Geologic Unit                                 | Measure Date |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|--------------|----------------------|---|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|              |                      |   | 02/22/16     | 02/29/16 | 04/18/16 | 06/06/16 | 06/07/16 | 08/29/16 | 08/30/16 | 10/17/16 | 01/30/17 | 01/31/17 | 03/20/17 | 05/01/17 | 06/05/17 | 09/12/17 | 11/15/17 | 01/22/18 | 04/30/18 | 08/27/18 |
| BY-AP-MW-14  | Downgradient         | Unit 2 - Unit 3 Transition Zone               | NM           | 6.89     | 5.49     | NM       | 2.66     | NM       | 1.72     | 0.73     | NM       | 4.49     | 1.44     | 2.29     | 2.54     | 0.36     | NM       | 0.61     | 4.66     | 1.49     |
| BY-AP-MW-15  | Downgradient         | Unit 3: Sands                                 | NM           | 7.21     | 5.88     | NM       | 2.61     | NM       | 2.20     | 1.34     | NM       | 4.94     | 1.93     | 2.82     | 3.04     | 0.99     | NM       | 1.18     | 5.14     | 1.98     |
| BY-AP-MW-16  | Downgradient         | Unit 2 - Unit 3 Transition Zone               | NM           | 7.34     | 6.17     | NM       | 2.94     | NM       | 2.52     | 2.04     | NM       | 5.31     | 2.38     | 3.40     | 3.52     | 1.76     | NM       | 1.93     | 5.40     | 2.40     |
| BY-AP-MW-1V  | Vertical Delineation | Unit 3: Lower Sands & Gravel (Watercourse Aq) | ---          | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      |
| BY-AP-MW-5V  | Vertical Delineation | Unit 3: Lower Sands & Gravel (Watercourse Aq) | ---          | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      |
| BY-AP-MW-7V  | Vertical Delineation | Unit 3: Lower Sands & Gravel (Watercourse Aq) | ---          | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      |
| BY-AP-MW-8V  | Vertical Delineation | Unit 3: Lower Sands & Gravel (Watercourse Aq) | ---          | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      |
| BY-AP-MW-10V | Vertical Delineation | Unit 3: Lower Sands & Gravel (Watercourse Aq) | ---          | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      |
| BY-AP-MW-12V | Vertical Delineation | Unit 3: Lower Sands & Gravel (Watercourse Aq) | ---          | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      |
| BY-AP-MW-13V | Vertical Delineation | Unit 3: Lower Sands & Gravel (Watercourse Aq) | ---          | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      |
| BY-AP-MW-14V | Vertical Delineation | Unit 3: Lower Sands & Gravel (Watercourse Aq) | ---          | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      |
| BY-AP-MW-15V | Vertical Delineation | Unit 3: Lower Sands & Gravel (Watercourse Aq) | ---          | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      |
| BY-AP-MW-16V | Vertical Delineation | Unit 3: Lower Sands & Gravel (Watercourse Aq) | ---          | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      |
| BY-AP-MW-17V | Vertical Delineation | Unit 3: Lower Sands & Gravel (Watercourse Aq) | ---          | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      |

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

**Appendix B. Historical Groundwater Elevations Summary**

Plant Barry Ash Pond  
02/22/2016 - 06/11/2023

| Well         | Hydraulic Location   | Geologic Unit                                 | Measure Date |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|--------------|----------------------|---|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|              |                      |   | 11/26/18     | 03/20/19 | 05/28/19 | 09/30/19 | 10/02/19 | 03/30/20 | 05/12/20 | 06/15/20 | 08/31/20 | 09/08/20 | 05/11/21 | 05/12/21 | 05/24/21 | 10/18/21 | 05/23/22 | 10/31/22 | 04/03/23 | 04/11/23 | 06/11/23 |
| BY-AP-MW-14  | Downgradient         | Unit 2 - Unit 3 Transition Zone               | 2.51         | 5.49     | 1.60     | 0.89     | NM       | 5.04     | 0.97     | 1.77     | 1.96     | NM       | NM       | 5.54     | 1.89     | 1.56     | 1.71     | 1.25     | 6.00     | NM       | 0.89     |
| BY-AP-MW-15  | Downgradient         | Unit 3: Sands                                 | 3.07         | 6.13     | 2.23     | 1.58     | NM       | 5.77     | 1.93     | 2.57     | 3.12     | NM       | NM       | 6.19     | 2.74     | 2.45     | 2.57     | 2.49     | 6.76     | NM       | 1.89     |
| BY-AP-MW-16  | Downgradient         | Unit 2 - Unit 3 Transition Zone               | 3.70         | 6.47     | 2.82     | 2.20     | NM       | 6.08     | 2.35     | 3.83     | 3.45     | NM       | NM       | 6.46     | 3.22     | 2.92     | 3.06     | 3.03     | 6.84     | NM       | 2.49     |
| BY-AP-MW-1V  | Vertical Delineation | Unit 3: Lower Sands & Gravel (Watercourse Aq) | ---          | 6.90     | NM       | 2.65     | NM       | 7.34     | 3.69     | 3.61     | 3.72     | NM       | NM       | 6.52     | 3.72     | 3.43     | 3.40     | 3.28     | 6.93     | NM       | 2.98     |
| BY-AP-MW-5V  | Vertical Delineation | Unit 3: Lower Sands & Gravel (Watercourse Aq) | ---          | 6.43     | NM       | 2.10     | NM       | 5.88     | 2.63     | 3.00     | 3.32     | NM       | NM       | 6.25     | NM       | 2.79     | 2.83     | 2.62     | 6.81     | NM       | 2.36     |
| BY-AP-MW-7V  | Vertical Delineation | Unit 3: Lower Sands & Gravel (Watercourse Aq) | ---          | 6.54     | NM       | 1.66     | NM       | 6.03     | 2.15     | 2.68     | 3.13     | NM       | NM       | 6.82     | 2.51     | 2.21     | 2.34     | 2.56     | 7.17     | NM       | 1.90     |
| BY-AP-MW-8V  | Vertical Delineation | Unit 3: Lower Sands & Gravel (Watercourse Aq) | ---          | 6.18     | NM       | 1.23     | NM       | 5.74     | 1.44     | 2.23     | 2.82     | NM       | NM       | 9.46     | 2.41     | 2.07     | 2.38     | 2.17     | 7.06     | NM       | 1.56     |
| BY-AP-MW-10V | Vertical Delineation | Unit 3: Lower Sands & Gravel (Watercourse Aq) | ---          | 6.09     | NM       | 1.21     | NM       | 5.65     | 1.23     | 2.17     | 2.78     | NM       | NM       | 6.14     | 2.21     | 1.93     | 2.20     | 1.59     | 6.65     | NM       | 1.20     |
| BY-AP-MW-12V | Vertical Delineation | Unit 3: Lower Sands & Gravel (Watercourse Aq) | ---          | 8.15     | NM       | 3.46     | NM       | 7.83     | 3.53     | 4.33     | 5.00     | NM       | NM       | 8.25     | 4.53     | 4.19     | 4.63     | 3.74     | 6.77     | NM       | 1.49     |
| BY-AP-MW-13V | Vertical Delineation | Unit 3: Lower Sands & Gravel (Watercourse Aq) | ---          | ---      | ---      | ---      | ---      | ---      | 1.48     | 2.23     | 2.93     | NM       | NM       | 6.19     | 2.47     | 2.57     | 2.62     | 1.69     | 6.83     | NM       | 1.52     |
| BY-AP-MW-14V | Vertical Delineation | Unit 3: Lower Sands & Gravel (Watercourse Aq) | ---          | ---      | ---      | ---      | ---      | ---      | 2.13     | 2.26     | 2.88     | NM       | NM       | 6.02     | 2.41     | 2.09     | 2.22     | 1.79     | 6.24     | NM       | 1.49     |
| BY-AP-MW-15V | Vertical Delineation | Unit 3: Lower Sands & Gravel (Watercourse Aq) | ---          | ---      | ---      | 1.97     | NM       | NM       | 2.17     | 2.71     | 3.23     | NM       | NM       | NM       | 2.83     | 2.52     | 2.55     | 2.49     | NM       | NM       | 1.92     |
| BY-AP-MW-16V | Vertical Delineation | Unit 3: Lower Sands & Gravel (Watercourse Aq) | ---          | ---      | ---      | ---      | ---      | ---      | 2.97     | 3.15     | 3.47     | NM       | NM       | NM       | 3.26     | 2.94     | 2.94     | 2.84     | 6.93     | NM       | 2.49     |
| BY-AP-MW-17V | Vertical Delineation | Unit 3: Lower Sands & Gravel (Watercourse Aq) | ---          | ---      | ---      | ---      | ---      | ---      | 1.51     | 2.11     | 3.01     | NM       | NM       | 6.46     | 2.44     | 2.20     | 2.09     | 2.19     | 6.91     | NM       | 1.34     |

Notes:

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



**Appendix B. Historical Groundwater Elevations Summary**

Plant Barry Ash Pond  
02/22/2016 - 06/11/2023

| Well          | Hydraulic Location     | Geologic Unit                                 | Measure Date |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|---------------|------------------------|---|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|               |                        |   | 02/22/16     | 02/29/16 | 04/18/16 | 06/06/16 | 06/07/16 | 08/29/16 | 08/30/16 | 10/17/16 | 01/30/17 | 01/31/17 | 03/20/17 | 05/01/17 | 06/05/17 | 09/12/17 | 11/15/17 | 01/22/18 | 04/30/18 | 08/27/18 |
| BY-AP-MW-20V  | Vertical Delineation   | Unit 3: Lower Sands & Gravel (Watercourse Aq) | ---          | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      |
| BY-AP-MW-23V  | Vertical Delineation   | Unit 3: Lower Sands & Gravel (Watercourse Aq) | ---          | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      |
| BY-AP-MW-25V  | Vertical Delineation   | Unit 3: Lower Sands & Gravel (Watercourse Aq) | ---          | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      |
| BY-AP-MW-17H  | Horizontal Delineation | Unit 2 - Unit 3 Transition Zone               | ---          | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      |
| BY-AP-MW-18H  | Horizontal Delineation | Unit 2 - Unit 3 Transition Zone               | ---          | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      |
| BY-AP-MW-19H  | Horizontal Delineation | Unit 2: Mixed Sand and Clay                   | ---          | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      |
| BY-AP-MW-20H  | Horizontal Delineation | Unit 2: Mixed Sand and Clay                   | ---          | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      |
| BY-AP-MW-22H  | Horizontal Delineation | Unit 2: Mixed Sand and Clay                   | ---          | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      |
| BY-AP-MW-23H  | Horizontal Delineation | Unit 2: Mixed Sand and Clay                   | ---          | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      |
| BY-AP-MW-24H  | Horizontal Delineation | Unit 2: Mixed Sand and Clay                   | ---          | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      |
| BY-AP-MW-25H  | Horizontal Delineation | Unit 2 - Unit 3 Transition Zone               | ---          | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      |
| BY-AP-MW-15VM | Piezometer             | Unit 5 Sands                                  | ---          | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      |

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

**Appendix B. Historical Groundwater Elevations Summary**

Plant Barry Ash Pond  
02/22/2016 - 06/11/2023

| Well          | Hydraulic Location     | Geologic Unit                                 | Measure Date |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |      |
|---------------|------------------------|---|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------|
|               |                        |   | 11/26/18     | 03/20/19 | 05/28/19 | 09/30/19 | 10/02/19 | 03/30/20 | 05/12/20 | 06/15/20 | 08/31/20 | 09/08/20 | 05/11/21 | 05/12/21 | 05/24/21 | 10/18/21 | 05/23/22 | 10/31/22 | 04/03/23 | 04/11/23 | 06/11/23 |      |
| BY-AP-MW-20V  | Vertical Delineation   | Unit 3: Lower Sands & Gravel (Watercourse Aq) | ---          | ---      | ---      | ---      | ---      | ---      | 1.40     | 2.19     | 2.87     | NM       | NM       | NM       | 2.39     | 2.04     | 2.56     | 1.61     | 6.73     | NM       | 1.44     |      |
| BY-AP-MW-23V  | Vertical Delineation   | Unit 3: Lower Sands & Gravel (Watercourse Aq) | ---          | ---      | ---      | ---      | ---      | ---      | NM       | 1.50     | 2.09     | 2.98     | NM       | NM       | 6.42     | 2.34     | 2.15     | 2.65     | 1.57     | 6.78     | NM       | 1.35 |
| BY-AP-MW-25V  | Vertical Delineation   | Unit 3: Lower Sands & Gravel (Watercourse Aq) | ---          | ---      | ---      | ---      | ---      | ---      | 3.22     | 3.42     | 3.38     | NM       | NM       | 5.96     | 3.58     | 3.19     | 3.22     | 2.53     | 6.28     | NM       | 2.50     |      |
| BY-AP-MW-17H  | Horizontal Delineation | Unit 2 - Unit 3 Transition Zone               | ---          | NM       | NM       | 1.51     | NM       | 5.88     | 1.47     | 2.36     | 2.93     | NM       | NM       | 6.40     | 2.37     | 2.14     | 2.02     | 2.04     | 6.85     | NM       | 1.31     |      |
| BY-AP-MW-18H  | Horizontal Delineation | Unit 2 - Unit 3 Transition Zone               | ---          | 6.33     | NM       | 1.34     | NM       | 5.88     | 1.87     | 2.03     | 3.00     | NM       | NM       | NM       | 2.40     | 2.05     | 2.61     | 2.54     | 6.85     | NM       | 1.44     |      |
| BY-AP-MW-19H  | Horizontal Delineation | Unit 2: Mixed Sand and Clay                   | ---          | ---      | ---      | 1.42     | NM       | 5.85     | 2.02     | 2.07     | 3.04     | NM       | NM       | NM       | 2.45     | 2.14     | 2.50     | 2.42     | NM       | NM       | 1.42     |      |
| BY-AP-MW-20H  | Horizontal Delineation | Unit 2: Mixed Sand and Clay                   | ---          | ---      | ---      | 1.55     | NM       | 5.79     | 1.55     | 2.31     | 2.97     | NM       | NM       | NM       | 2.51     | 2.13     | 2.57     | 2.29     | NM       | NM       | 1.48     |      |
| BY-AP-MW-22H  | Horizontal Delineation | Unit 2: Mixed Sand and Clay                   | ---          | ---      | ---      | 1.85     | NM       | NM       | 2.17     | 2.75     | 3.09     | NM       | NM       | NM       | 2.80     | 2.46     | 2.40     | 2.57     | NM       | NM       | 1.72     |      |
| BY-AP-MW-23H  | Horizontal Delineation | Unit 2: Mixed Sand and Clay                   | ---          | ---      | ---      | 1.67     | NM       | 5.98     | 1.55     | 2.48     | 3.07     | NM       | NM       | NM       | 2.44     | 2.14     | 2.75     | 1.60     | 6.89     | NM       | 1.41     |      |
| BY-AP-MW-24H  | Horizontal Delineation | Unit 2: Mixed Sand and Clay                   | ---          | 6.31     | NM       | 1.86     | NM       | 5.82     | 1.40     | 2.74     | 3.16     | NM       | NM       | NM       | 2.92     | 2.60     | 2.60     | 2.65     | 6.73     | NM       | 2.05     |      |
| BY-AP-MW-25H  | Horizontal Delineation | Unit 2 - Unit 3 Transition Zone               | ---          | ---      | ---      | ---      | ---      | ---      | 3.49     | 3.53     | 3.37     | NM       | NM       | 5.92     | 3.63     | 3.29     | 2.31     | 2.56     | 6.21     | NM       | 2.60     |      |
| BY-AP-MW-15VM | Piezometer             | Unit 5 Sands                                  | ---          | ---      | ---      | ---      | ---      | ---      | 4.15     | 3.95     | 3.90     | NM       | NM       | 6.75     | 3.98     | 3.45     | 4.36     | 3.06     | 7.79     | NM       | 2.95     |      |

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

# Appendix C









Plant Barry Ash Pond  
Field Parameter Summary

| WELL ID          | PARAMETER | DESCRIPTION                   | TIME OF READING  | VALUE  | UNIT  |
|------------------|-----------|-------------------------------|------------------|--------|-------|
| APCO- BY-UP-MW-1 | COND      | Conductivity                  | 4/12/23 12:45 PM | 51.89  | uS/cm |
| APCO- BY-UP-MW-1 | DO        | DO                            | 4/12/23 12:45 PM | 0.31   | mg/L  |
| APCO- BY-UP-MW-1 | DTW       | Depth to Water Detail         | 4/12/23 12:45 PM | 13.42  | ft    |
| APCO- BY-UP-MW-1 | ORP       | Oxidation Reduction Potential | 4/12/23 12:45 PM | 229.85 | mv    |
| APCO- BY-UP-MW-1 | PH        | pH                            | 4/12/23 12:45 PM | 4.76   | SU    |
| APCO- BY-UP-MW-1 | TEMP      | Temperature                   | 4/12/23 12:45 PM | 20.25  | C     |
| APCO- BY-UP-MW-1 | TURB      | Turbidity                     | 4/12/23 12:45 PM | 5.73   | NTU   |
| APCO- BY-UP-MW-1 | COND      | Conductivity                  | 4/12/23 12:50 PM | 50.89  | uS/cm |
| APCO- BY-UP-MW-1 | DO        | DO                            | 4/12/23 12:50 PM | 0.28   | mg/L  |
| APCO- BY-UP-MW-1 | DTW       | Depth to Water Detail         | 4/12/23 12:50 PM | 13.42  | ft    |
| APCO- BY-UP-MW-1 | ORP       | Oxidation Reduction Potential | 4/12/23 12:50 PM | 230.01 | mv    |
| APCO- BY-UP-MW-1 | PH        | pH                            | 4/12/23 12:50 PM | 4.79   | SU    |
| APCO- BY-UP-MW-1 | TEMP      | Temperature                   | 4/12/23 12:50 PM | 20.28  | C     |
| APCO- BY-UP-MW-1 | TURB      | Turbidity                     | 4/12/23 12:50 PM | 4.23   | NTU   |
| APCO- BY-UP-MW-1 | COND      | Conductivity                  | 4/12/23 12:55 PM | 50.71  | uS/cm |
| APCO- BY-UP-MW-1 | DO        | DO                            | 4/12/23 12:55 PM | 0.27   | mg/L  |
| APCO- BY-UP-MW-1 | DTW       | Depth to Water Detail         | 4/12/23 12:55 PM | 13.42  | ft    |
| APCO- BY-UP-MW-1 | ORP       | Oxidation Reduction Potential | 4/12/23 12:55 PM | 230.75 | mv    |
| APCO- BY-UP-MW-1 | PH        | pH                            | 4/12/23 12:55 PM | 4.81   | SU    |
| APCO- BY-UP-MW-1 | TEMP      | Temperature                   | 4/12/23 12:55 PM | 20.28  | C     |
| APCO- BY-UP-MW-1 | TURB      | Turbidity                     | 4/12/23 12:55 PM | 2.95   | NTU   |
| APCO- BY-UP-MW-1 | COND      | Conductivity                  | 4/12/23 1:00 PM  | 50.26  | uS/cm |
| APCO- BY-UP-MW-1 | DO        | DO                            | 4/12/23 1:00 PM  | 0.28   | mg/L  |
| APCO- BY-UP-MW-1 | DTW       | Depth to Water Detail         | 4/12/23 1:00 PM  | 13.42  | ft    |
| APCO- BY-UP-MW-1 | ORP       | Oxidation Reduction Potential | 4/12/23 1:00 PM  | 234.04 | mv    |
| APCO- BY-UP-MW-1 | PH        | pH                            | 4/12/23 1:00 PM  | 4.77   | SU    |
| APCO- BY-UP-MW-1 | SULFIDE   | Sulfide                       | 4/12/23 1:00 PM  | 0      | mg/L  |
| APCO- BY-UP-MW-1 | TEMP      | Temperature                   | 4/12/23 1:00 PM  | 20.31  | C     |
| APCO- BY-UP-MW-1 | TURB      | Turbidity                     | 4/12/23 1:00 PM  | 2.86   | NTU   |
| APCO- BY-UP-MW-2 | COND      | Conductivity                  | 4/12/23 11:48 AM | 51.94  | uS/cm |
| APCO- BY-UP-MW-2 | DO        | DO                            | 4/12/23 11:48 AM | 6.43   | mg/L  |
| APCO- BY-UP-MW-2 | DTW       | Depth to Water Detail         | 4/12/23 11:48 AM | 12.92  | ft    |
| APCO- BY-UP-MW-2 | ORP       | Oxidation Reduction Potential | 4/12/23 11:48 AM | 396.32 | mv    |
| APCO- BY-UP-MW-2 | PH        | pH                            | 4/12/23 11:48 AM | 4.62   | SU    |
| APCO- BY-UP-MW-2 | TEMP      | Temperature                   | 4/12/23 11:48 AM | 19.54  | C     |
| APCO- BY-UP-MW-2 | TURB      | Turbidity                     | 4/12/23 11:48 AM | 17.3   | NTU   |
| APCO- BY-UP-MW-2 | COND      | Conductivity                  | 4/12/23 11:53 AM | 51.82  | uS/cm |
| APCO- BY-UP-MW-2 | DO        | DO                            | 4/12/23 11:53 AM | 6.26   | mg/L  |
| APCO- BY-UP-MW-2 | DTW       | Depth to Water Detail         | 4/12/23 11:53 AM | 12.92  | ft    |
| APCO- BY-UP-MW-2 | ORP       | Oxidation Reduction Potential | 4/12/23 11:53 AM | 409.68 | mv    |
| APCO- BY-UP-MW-2 | PH        | pH                            | 4/12/23 11:53 AM | 4.65   | SU    |
| APCO- BY-UP-MW-2 | TEMP      | Temperature                   | 4/12/23 11:53 AM | 19.54  | C     |
| APCO- BY-UP-MW-2 | TURB      | Turbidity                     | 4/12/23 11:53 AM | 17.8   | NTU   |
| APCO- BY-UP-MW-2 | COND      | Conductivity                  | 4/12/23 11:58 AM | 51.84  | uS/cm |
| APCO- BY-UP-MW-2 | DO        | DO                            | 4/12/23 11:58 AM | 6.17   | mg/L  |
| APCO- BY-UP-MW-2 | DTW       | Depth to Water Detail         | 4/12/23 11:58 AM | 12.92  | ft    |
| APCO- BY-UP-MW-2 | ORP       | Oxidation Reduction Potential | 4/12/23 11:58 AM | 420.19 | mv    |
| APCO- BY-UP-MW-2 | PH        | pH                            | 4/12/23 11:58 AM | 4.59   | SU    |
| APCO- BY-UP-MW-2 | TEMP      | Temperature                   | 4/12/23 11:58 AM | 19.55  | C     |
| APCO- BY-UP-MW-2 | TURB      | Turbidity                     | 4/12/23 11:58 AM | 14.6   | NTU   |
| APCO- BY-UP-MW-2 | COND      | Conductivity                  | 4/12/23 12:03 PM | 51.71  | uS/cm |
| APCO- BY-UP-MW-2 | DO        | DO                            | 4/12/23 12:03 PM | 6.14   | mg/L  |
| APCO- BY-UP-MW-2 | DTW       | Depth to Water Detail         | 4/12/23 12:03 PM | 12.92  | ft    |
| APCO- BY-UP-MW-2 | ORP       | Oxidation Reduction Potential | 4/12/23 12:03 PM | 422.45 | mv    |
| APCO- BY-UP-MW-2 | PH        | pH                            | 4/12/23 12:03 PM | 4.63   | SU    |
| APCO- BY-UP-MW-2 | TEMP      | Temperature                   | 4/12/23 12:03 PM | 19.49  | C     |
| APCO- BY-UP-MW-2 | TURB      | Turbidity                     | 4/12/23 12:03 PM | 11.16  | NTU   |
| APCO- BY-UP-MW-2 | COND      | Conductivity                  | 4/12/23 12:08 PM | 51.68  | uS/cm |
| APCO- BY-UP-MW-2 | DO        | DO                            | 4/12/23 12:08 PM | 6.08   | mg/L  |
| APCO- BY-UP-MW-2 | DTW       | Depth to Water Detail         | 4/12/23 12:08 PM | 12.92  | ft    |

Plant Barry Ash Pond  
Field Parameter Summary

| WELL ID          | PARAMETER | DESCRIPTION                   | TIME OF READING  | VALUE  | UNIT  |
|------------------|-----------|-------------------------------|------------------|--------|-------|
| APCO- BY-UP-MW-2 | ORP       | Oxidation Reduction Potential | 4/12/23 12:08 PM | 422.56 | mv    |
| APCO- BY-UP-MW-2 | PH        | pH                            | 4/12/23 12:08 PM | 4.67   | SU    |
| APCO- BY-UP-MW-2 | SULFIDE   | Sulfide                       | 4/12/23 12:08 PM | 0      | mg/L  |
| APCO- BY-UP-MW-2 | TEMP      | Temperature                   | 4/12/23 12:08 PM | 19.45  | C     |
| APCO- BY-UP-MW-2 | TURB      | Turbidity                     | 4/12/23 12:08 PM | 8.09   | NTU   |
| APCO- BY-UP-MW-3 | COND      | Conductivity                  | 4/12/23 10:45 AM | 54.26  | uS/cm |
| APCO- BY-UP-MW-3 | DO        | DO                            | 4/12/23 10:45 AM | 5.78   | mg/L  |
| APCO- BY-UP-MW-3 | DTW       | Depth to Water Detail         | 4/12/23 10:45 AM | 15.66  | ft    |
| APCO- BY-UP-MW-3 | ORP       | Oxidation Reduction Potential | 4/12/23 10:45 AM | 373.43 | mv    |
| APCO- BY-UP-MW-3 | PH        | pH                            | 4/12/23 10:45 AM | 4.72   | SU    |
| APCO- BY-UP-MW-3 | TEMP      | Temperature                   | 4/12/23 10:45 AM | 19.5   | C     |
| APCO- BY-UP-MW-3 | TURB      | Turbidity                     | 4/12/23 10:45 AM | 5.48   | NTU   |
| APCO- BY-UP-MW-3 | COND      | Conductivity                  | 4/12/23 10:50 AM | 54.31  | uS/cm |
| APCO- BY-UP-MW-3 | DO        | DO                            | 4/12/23 10:50 AM | 5.7    | mg/L  |
| APCO- BY-UP-MW-3 | DTW       | Depth to Water Detail         | 4/12/23 10:50 AM | 15.66  | ft    |
| APCO- BY-UP-MW-3 | ORP       | Oxidation Reduction Potential | 4/12/23 10:50 AM | 387.46 | mv    |
| APCO- BY-UP-MW-3 | PH        | pH                            | 4/12/23 10:50 AM | 4.77   | SU    |
| APCO- BY-UP-MW-3 | TEMP      | Temperature                   | 4/12/23 10:50 AM | 19.51  | C     |
| APCO- BY-UP-MW-3 | TURB      | Turbidity                     | 4/12/23 10:50 AM | 3.98   | NTU   |
| APCO- BY-UP-MW-3 | COND      | Conductivity                  | 4/12/23 10:55 AM | 54.24  | uS/cm |
| APCO- BY-UP-MW-3 | DO        | DO                            | 4/12/23 10:55 AM | 5.68   | mg/L  |
| APCO- BY-UP-MW-3 | DTW       | Depth to Water Detail         | 4/12/23 10:55 AM | 15.66  | ft    |
| APCO- BY-UP-MW-3 | ORP       | Oxidation Reduction Potential | 4/12/23 10:55 AM | 393.4  | mv    |
| APCO- BY-UP-MW-3 | PH        | pH                            | 4/12/23 10:55 AM | 4.81   | SU    |
| APCO- BY-UP-MW-3 | TEMP      | Temperature                   | 4/12/23 10:55 AM | 19.52  | C     |
| APCO- BY-UP-MW-3 | TURB      | Turbidity                     | 4/12/23 10:55 AM | 3.96   | NTU   |
| APCO- BY-UP-MW-3 | COND      | Conductivity                  | 4/12/23 11:00 AM | 54.29  | uS/cm |
| APCO- BY-UP-MW-3 | DO        | DO                            | 4/12/23 11:00 AM | 5.66   | mg/L  |
| APCO- BY-UP-MW-3 | DTW       | Depth to Water Detail         | 4/12/23 11:00 AM | 15.66  | ft    |
| APCO- BY-UP-MW-3 | ORP       | Oxidation Reduction Potential | 4/12/23 11:00 AM | 397.4  | mv    |
| APCO- BY-UP-MW-3 | PH        | pH                            | 4/12/23 11:00 AM | 4.83   | SU    |
| APCO- BY-UP-MW-3 | SULFIDE   | Sulfide                       | 4/12/23 11:00 AM | 0      | mg/L  |
| APCO- BY-UP-MW-3 | TEMP      | Temperature                   | 4/12/23 11:00 AM | 19.52  | C     |
| APCO- BY-UP-MW-3 | TURB      | Turbidity                     | 4/12/23 11:00 AM | 3.14   | NTU   |
| APCO- BY-UP-MW-4 | COND      | Conductivity                  | 4/12/23 9:27 AM  | 58.91  | uS/cm |
| APCO- BY-UP-MW-4 | DO        | DO                            | 4/12/23 9:27 AM  | 6.12   | mg/L  |
| APCO- BY-UP-MW-4 | DTW       | Depth to Water Detail         | 4/12/23 9:27 AM  | 21.84  | ft    |
| APCO- BY-UP-MW-4 | ORP       | Oxidation Reduction Potential | 4/12/23 9:27 AM  | 354.83 | mv    |
| APCO- BY-UP-MW-4 | PH        | pH                            | 4/12/23 9:27 AM  | 4.74   | SU    |
| APCO- BY-UP-MW-4 | TEMP      | Temperature                   | 4/12/23 9:27 AM  | 20.73  | C     |
| APCO- BY-UP-MW-4 | TURB      | Turbidity                     | 4/12/23 9:27 AM  | 9.38   | NTU   |
| APCO- BY-UP-MW-4 | COND      | Conductivity                  | 4/12/23 9:32 AM  | 58.83  | uS/cm |
| APCO- BY-UP-MW-4 | DO        | DO                            | 4/12/23 9:32 AM  | 6.12   | mg/L  |
| APCO- BY-UP-MW-4 | DTW       | Depth to Water Detail         | 4/12/23 9:32 AM  | 21.84  | ft    |
| APCO- BY-UP-MW-4 | ORP       | Oxidation Reduction Potential | 4/12/23 9:32 AM  | 379.72 | mv    |
| APCO- BY-UP-MW-4 | PH        | pH                            | 4/12/23 9:32 AM  | 4.6    | SU    |
| APCO- BY-UP-MW-4 | TEMP      | Temperature                   | 4/12/23 9:32 AM  | 20.75  | C     |
| APCO- BY-UP-MW-4 | TURB      | Turbidity                     | 4/12/23 9:32 AM  | 7.55   | NTU   |
| APCO- BY-UP-MW-4 | COND      | Conductivity                  | 4/12/23 9:37 AM  | 58.42  | uS/cm |
| APCO- BY-UP-MW-4 | DO        | DO                            | 4/12/23 9:37 AM  | 6.1    | mg/L  |
| APCO- BY-UP-MW-4 | DTW       | Depth to Water Detail         | 4/12/23 9:37 AM  | 21.84  | ft    |
| APCO- BY-UP-MW-4 | ORP       | Oxidation Reduction Potential | 4/12/23 9:37 AM  | 388.26 | mv    |
| APCO- BY-UP-MW-4 | PH        | pH                            | 4/12/23 9:37 AM  | 4.66   | SU    |
| APCO- BY-UP-MW-4 | TEMP      | Temperature                   | 4/12/23 9:37 AM  | 20.75  | C     |
| APCO- BY-UP-MW-4 | TURB      | Turbidity                     | 4/12/23 9:37 AM  | 6.75   | NTU   |
| APCO- BY-UP-MW-4 | COND      | Conductivity                  | 4/12/23 9:42 AM  | 58.11  | uS/cm |
| APCO- BY-UP-MW-4 | DO        | DO                            | 4/12/23 9:42 AM  | 6.03   | mg/L  |
| APCO- BY-UP-MW-4 | DTW       | Depth to Water Detail         | 4/12/23 9:42 AM  | 21.84  | ft    |
| APCO- BY-UP-MW-4 | ORP       | Oxidation Reduction Potential | 4/12/23 9:42 AM  | 393.08 | mv    |
| APCO- BY-UP-MW-4 | PH        | pH                            | 4/12/23 9:42 AM  | 4.7    | SU    |

Plant Barry Ash Pond  
Field Parameter Summary

| WELL ID          | PARAMETER | DESCRIPTION                   | TIME OF READING | VALUE  | UNIT  |
|------------------|-----------|-------------------------------|-----------------|--------|-------|
| APCO- BY-UP-MW-4 | TEMP      | Temperature                   | 4/12/23 9:42 AM | 20.77  | C     |
| APCO- BY-UP-MW-4 | TURB      | Turbidity                     | 4/12/23 9:42 AM | 5.72   | NTU   |
| APCO- BY-UP-MW-4 | COND      | Conductivity                  | 4/12/23 9:47 AM | 57.67  | uS/cm |
| APCO- BY-UP-MW-4 | DO        | DO                            | 4/12/23 9:47 AM | 5.97   | mg/L  |
| APCO- BY-UP-MW-4 | DTW       | Depth to Water Detail         | 4/12/23 9:47 AM | 21.84  | ft    |
| APCO- BY-UP-MW-4 | ORP       | Oxidation Reduction Potential | 4/12/23 9:47 AM | 397.5  | mv    |
| APCO- BY-UP-MW-4 | PH        | pH                            | 4/12/23 9:47 AM | 4.73   | SU    |
| APCO- BY-UP-MW-4 | SULFIDE   | Sulfide                       | 4/12/23 9:47 AM | 0      | mg/L  |
| APCO- BY-UP-MW-4 | TEMP      | Temperature                   | 4/12/23 9:47 AM | 20.79  | C     |
| APCO- BY-UP-MW-4 | TURB      | Turbidity                     | 4/12/23 9:47 AM | 4.96   | NTU   |
| APCO- BY-AP-MW-1 | COND      | Conductivity                  | 4/3/23 8:32 AM  | 683.62 | uS/cm |
| APCO- BY-AP-MW-1 | DO        | DO                            | 4/3/23 8:32 AM  | 0.18   | mg/L  |
| APCO- BY-AP-MW-1 | DTW       | Depth to Water Detail         | 4/3/23 8:32 AM  | 19.36  | ft    |
| APCO- BY-AP-MW-1 | ORP       | Oxidation Reduction Potential | 4/3/23 8:32 AM  | -50.72 | mv    |
| APCO- BY-AP-MW-1 | PH        | pH                            | 4/3/23 8:32 AM  | 5.74   | SU    |
| APCO- BY-AP-MW-1 | TEMP      | Temperature                   | 4/3/23 8:32 AM  | 21.76  | C     |
| APCO- BY-AP-MW-1 | TURB      | Turbidity                     | 4/3/23 8:32 AM  | 4.76   | NTU   |
| APCO- BY-AP-MW-1 | COND      | Conductivity                  | 4/3/23 8:37 AM  | 682.01 | uS/cm |
| APCO- BY-AP-MW-1 | DO        | DO                            | 4/3/23 8:37 AM  | 0.17   | mg/L  |
| APCO- BY-AP-MW-1 | DTW       | Depth to Water Detail         | 4/3/23 8:37 AM  | 19.36  | ft    |
| APCO- BY-AP-MW-1 | ORP       | Oxidation Reduction Potential | 4/3/23 8:37 AM  | -53.28 | mv    |
| APCO- BY-AP-MW-1 | PH        | pH                            | 4/3/23 8:37 AM  | 5.76   | SU    |
| APCO- BY-AP-MW-1 | TEMP      | Temperature                   | 4/3/23 8:37 AM  | 21.71  | C     |
| APCO- BY-AP-MW-1 | TURB      | Turbidity                     | 4/3/23 8:37 AM  | 5.61   | NTU   |
| APCO- BY-AP-MW-1 | COND      | Conductivity                  | 4/3/23 8:42 AM  | 683.18 | uS/cm |
| APCO- BY-AP-MW-1 | DO        | DO                            | 4/3/23 8:42 AM  | 0.17   | mg/L  |
| APCO- BY-AP-MW-1 | DTW       | Depth to Water Detail         | 4/3/23 8:42 AM  | 19.36  | ft    |
| APCO- BY-AP-MW-1 | ORP       | Oxidation Reduction Potential | 4/3/23 8:42 AM  | -54.55 | mv    |
| APCO- BY-AP-MW-1 | PH        | pH                            | 4/3/23 8:42 AM  | 5.77   | SU    |
| APCO- BY-AP-MW-1 | TEMP      | Temperature                   | 4/3/23 8:42 AM  | 21.61  | C     |
| APCO- BY-AP-MW-1 | TURB      | Turbidity                     | 4/3/23 8:42 AM  | 4.65   | NTU   |
| APCO- BY-AP-MW-1 | COND      | Conductivity                  | 4/3/23 8:47 AM  | 689.74 | uS/cm |
| APCO- BY-AP-MW-1 | DO        | DO                            | 4/3/23 8:47 AM  | 0.17   | mg/L  |
| APCO- BY-AP-MW-1 | DTW       | Depth to Water Detail         | 4/3/23 8:47 AM  | 19.36  | ft    |
| APCO- BY-AP-MW-1 | ORP       | Oxidation Reduction Potential | 4/3/23 8:47 AM  | -55.85 | mv    |
| APCO- BY-AP-MW-1 | PH        | pH                            | 4/3/23 8:47 AM  | 5.78   | SU    |
| APCO- BY-AP-MW-1 | SULFIDE   | Sulfide                       | 4/3/23 8:47 AM  | 0      | mg/L  |
| APCO- BY-AP-MW-1 | TEMP      | Temperature                   | 4/3/23 8:47 AM  | 21.61  | C     |
| APCO- BY-AP-MW-1 | TURB      | Turbidity                     | 4/3/23 8:47 AM  | 4.85   | NTU   |
| APCO- BY-AP-MW-2 | COND      | Conductivity                  | 4/3/23 10:49 AM | 44.98  | uS/cm |
| APCO- BY-AP-MW-2 | DO        | DO                            | 4/3/23 10:49 AM | 0.6    | mg/L  |
| APCO- BY-AP-MW-2 | DTW       | Depth to Water Detail         | 4/3/23 10:49 AM | 16.91  | ft    |
| APCO- BY-AP-MW-2 | ORP       | Oxidation Reduction Potential | 4/3/23 10:49 AM | 149.52 | mv    |
| APCO- BY-AP-MW-2 | PH        | pH                            | 4/3/23 10:49 AM | 4.75   | SU    |
| APCO- BY-AP-MW-2 | TEMP      | Temperature                   | 4/3/23 10:49 AM | 21.85  | C     |
| APCO- BY-AP-MW-2 | TURB      | Turbidity                     | 4/3/23 10:49 AM | 3.56   | NTU   |
| APCO- BY-AP-MW-2 | COND      | Conductivity                  | 4/3/23 10:54 AM | 46.15  | uS/cm |
| APCO- BY-AP-MW-2 | DO        | DO                            | 4/3/23 10:54 AM | 0.56   | mg/L  |
| APCO- BY-AP-MW-2 | DTW       | Depth to Water Detail         | 4/3/23 10:54 AM | 16.91  | ft    |
| APCO- BY-AP-MW-2 | ORP       | Oxidation Reduction Potential | 4/3/23 10:54 AM | 151.74 | mv    |
| APCO- BY-AP-MW-2 | PH        | pH                            | 4/3/23 10:54 AM | 4.74   | SU    |
| APCO- BY-AP-MW-2 | TEMP      | Temperature                   | 4/3/23 10:54 AM | 21.9   | C     |
| APCO- BY-AP-MW-2 | TURB      | Turbidity                     | 4/3/23 10:54 AM | 3.32   | NTU   |
| APCO- BY-AP-MW-2 | COND      | Conductivity                  | 4/3/23 10:59 AM | 45.75  | uS/cm |
| APCO- BY-AP-MW-2 | DO        | DO                            | 4/3/23 10:59 AM | 0.54   | mg/L  |
| APCO- BY-AP-MW-2 | DTW       | Depth to Water Detail         | 4/3/23 10:59 AM | 16.91  | ft    |
| APCO- BY-AP-MW-2 | ORP       | Oxidation Reduction Potential | 4/3/23 10:59 AM | 149.6  | mv    |
| APCO- BY-AP-MW-2 | PH        | pH                            | 4/3/23 10:59 AM | 4.75   | SU    |
| APCO- BY-AP-MW-2 | TEMP      | Temperature                   | 4/3/23 10:59 AM | 21.9   | C     |
| APCO- BY-AP-MW-2 | TURB      | Turbidity                     | 4/3/23 10:59 AM | 3.13   | NTU   |

Plant Barry Ash Pond  
Field Parameter Summary

| WELL ID          | PARAMETER | DESCRIPTION                   | TIME OF READING | VALUE  | UNIT  |
|------------------|-----------|-------------------------------|-----------------|--------|-------|
| APCO- BY-AP-MW-2 | COND      | Conductivity                  | 4/3/23 11:04 AM | 41.95  | uS/cm |
| APCO- BY-AP-MW-2 | DO        | DO                            | 4/3/23 11:04 AM | 0.55   | mg/L  |
| APCO- BY-AP-MW-2 | DTW       | Depth to Water Detail         | 4/3/23 11:04 AM | 16.91  | ft    |
| APCO- BY-AP-MW-2 | ORP       | Oxidation Reduction Potential | 4/3/23 11:04 AM | 146.68 | mv    |
| APCO- BY-AP-MW-2 | PH        | pH                            | 4/3/23 11:04 AM | 4.78   | SU    |
| APCO- BY-AP-MW-2 | TEMP      | Temperature                   | 4/3/23 11:04 AM | 21.88  | C     |
| APCO- BY-AP-MW-2 | TURB      | Turbidity                     | 4/3/23 11:04 AM | 1.73   | NTU   |
| APCO- BY-AP-MW-2 | COND      | Conductivity                  | 4/3/23 11:09 AM | 45.37  | uS/cm |
| APCO- BY-AP-MW-2 | DO        | DO                            | 4/3/23 11:09 AM | 0.59   | mg/L  |
| APCO- BY-AP-MW-2 | DTW       | Depth to Water Detail         | 4/3/23 11:09 AM | 16.91  | ft    |
| APCO- BY-AP-MW-2 | ORP       | Oxidation Reduction Potential | 4/3/23 11:09 AM | 144.37 | mv    |
| APCO- BY-AP-MW-2 | PH        | pH                            | 4/3/23 11:09 AM | 4.82   | SU    |
| APCO- BY-AP-MW-2 | TEMP      | Temperature                   | 4/3/23 11:09 AM | 21.72  | C     |
| APCO- BY-AP-MW-2 | TURB      | Turbidity                     | 4/3/23 11:09 AM | 1.53   | NTU   |
| APCO- BY-AP-MW-2 | COND      | Conductivity                  | 4/3/23 11:14 AM | 44.36  | uS/cm |
| APCO- BY-AP-MW-2 | DO        | DO                            | 4/3/23 11:14 AM | 0.52   | mg/L  |
| APCO- BY-AP-MW-2 | DTW       | Depth to Water Detail         | 4/3/23 11:14 AM | 16.91  | ft    |
| APCO- BY-AP-MW-2 | ORP       | Oxidation Reduction Potential | 4/3/23 11:14 AM | 141.95 | mv    |
| APCO- BY-AP-MW-2 | PH        | pH                            | 4/3/23 11:14 AM | 4.85   | SU    |
| APCO- BY-AP-MW-2 | TEMP      | Temperature                   | 4/3/23 11:14 AM | 21.6   | C     |
| APCO- BY-AP-MW-2 | TURB      | Turbidity                     | 4/3/23 11:14 AM | 1.29   | NTU   |
| APCO- BY-AP-MW-2 | COND      | Conductivity                  | 4/3/23 11:19 AM | 46.42  | uS/cm |
| APCO- BY-AP-MW-2 | DO        | DO                            | 4/3/23 11:19 AM | 0.53   | mg/L  |
| APCO- BY-AP-MW-2 | DTW       | Depth to Water Detail         | 4/3/23 11:19 AM | 16.91  | ft    |
| APCO- BY-AP-MW-2 | ORP       | Oxidation Reduction Potential | 4/3/23 11:19 AM | 138.69 | mv    |
| APCO- BY-AP-MW-2 | PH        | pH                            | 4/3/23 11:19 AM | 4.88   | SU    |
| APCO- BY-AP-MW-2 | SULFIDE   | Sulfide                       | 4/3/23 11:19 AM | 0      | mg/L  |
| APCO- BY-AP-MW-2 | TEMP      | Temperature                   | 4/3/23 11:19 AM | 21.66  | C     |
| APCO- BY-AP-MW-2 | TURB      | Turbidity                     | 4/3/23 11:19 AM | 1.38   | NTU   |
| APCO- BY-AP-MW-6 | COND      | Conductivity                  | 4/4/23 8:17 AM  | 62.86  | uS/cm |
| APCO- BY-AP-MW-6 | DO        | DO                            | 4/4/23 8:17 AM  | 0.54   | mg/L  |
| APCO- BY-AP-MW-6 | DTW       | Depth to Water Detail         | 4/4/23 8:17 AM  | 19.86  | ft    |
| APCO- BY-AP-MW-6 | ORP       | Oxidation Reduction Potential | 4/4/23 8:17 AM  | 233.52 | mv    |
| APCO- BY-AP-MW-6 | PH        | pH                            | 4/4/23 8:17 AM  | 5.25   | SU    |
| APCO- BY-AP-MW-6 | TEMP      | Temperature                   | 4/4/23 8:17 AM  | 21.57  | C     |
| APCO- BY-AP-MW-6 | TURB      | Turbidity                     | 4/4/23 8:17 AM  | 1.04   | NTU   |
| APCO- BY-AP-MW-6 | COND      | Conductivity                  | 4/4/23 8:22 AM  | 62.49  | uS/cm |
| APCO- BY-AP-MW-6 | DO        | DO                            | 4/4/23 8:22 AM  | 0.89   | mg/L  |
| APCO- BY-AP-MW-6 | DTW       | Depth to Water Detail         | 4/4/23 8:22 AM  | 19.86  | ft    |
| APCO- BY-AP-MW-6 | ORP       | Oxidation Reduction Potential | 4/4/23 8:22 AM  | 244.99 | mv    |
| APCO- BY-AP-MW-6 | PH        | pH                            | 4/4/23 8:22 AM  | 5.3    | SU    |
| APCO- BY-AP-MW-6 | TEMP      | Temperature                   | 4/4/23 8:22 AM  | 22.04  | C     |
| APCO- BY-AP-MW-6 | TURB      | Turbidity                     | 4/4/23 8:22 AM  | 1.09   | NTU   |
| APCO- BY-AP-MW-6 | COND      | Conductivity                  | 4/4/23 8:27 AM  | 76.83  | uS/cm |
| APCO- BY-AP-MW-6 | DO        | DO                            | 4/4/23 8:27 AM  | 1.33   | mg/L  |
| APCO- BY-AP-MW-6 | DTW       | Depth to Water Detail         | 4/4/23 8:27 AM  | 19.86  | ft    |
| APCO- BY-AP-MW-6 | ORP       | Oxidation Reduction Potential | 4/4/23 8:27 AM  | 246.85 | mv    |
| APCO- BY-AP-MW-6 | PH        | pH                            | 4/4/23 8:27 AM  | 5.34   | SU    |
| APCO- BY-AP-MW-6 | TEMP      | Temperature                   | 4/4/23 8:27 AM  | 22.87  | C     |
| APCO- BY-AP-MW-6 | TURB      | Turbidity                     | 4/4/23 8:27 AM  | 3.79   | NTU   |
| APCO- BY-AP-MW-6 | COND      | Conductivity                  | 4/4/23 8:32 AM  | 61.03  | uS/cm |
| APCO- BY-AP-MW-6 | DO        | DO                            | 4/4/23 8:32 AM  | 0.62   | mg/L  |
| APCO- BY-AP-MW-6 | DTW       | Depth to Water Detail         | 4/4/23 8:32 AM  | 19.86  | ft    |
| APCO- BY-AP-MW-6 | ORP       | Oxidation Reduction Potential | 4/4/23 8:32 AM  | 261.85 | mv    |
| APCO- BY-AP-MW-6 | PH        | pH                            | 4/4/23 8:32 AM  | 5.23   | SU    |
| APCO- BY-AP-MW-6 | TEMP      | Temperature                   | 4/4/23 8:32 AM  | 21.41  | C     |
| APCO- BY-AP-MW-6 | TURB      | Turbidity                     | 4/4/23 8:32 AM  | 0.69   | NTU   |
| APCO- BY-AP-MW-6 | COND      | Conductivity                  | 4/4/23 8:37 AM  | 61.37  | uS/cm |
| APCO- BY-AP-MW-6 | DO        | DO                            | 4/4/23 8:37 AM  | 0.5    | mg/L  |
| APCO- BY-AP-MW-6 | DTW       | Depth to Water Detail         | 4/4/23 8:37 AM  | 19.86  | ft    |



Plant Barry Ash Pond  
Field Parameter Summary

| WELL ID           | PARAMETER | DESCRIPTION                   | TIME OF READING | VALUE   | UNIT  |
|-------------------|-----------|-------------------------------|-----------------|---------|-------|
| APCO- BY-AP-MW-6  | ORP       | Oxidation Reduction Potential | 4/4/23 8:37 AM  | 276.29  | mv    |
| APCO- BY-AP-MW-6  | PH        | pH                            | 4/4/23 8:37 AM  | 5.24    | SU    |
| APCO- BY-AP-MW-6  | TEMP      | Temperature                   | 4/4/23 8:37 AM  | 21.3    | C     |
| APCO- BY-AP-MW-6  | TURB      | Turbidity                     | 4/4/23 8:37 AM  | 0.82    | NTU   |
| APCO- BY-AP-MW-6  | COND      | Conductivity                  | 4/4/23 8:42 AM  | 61.88   | uS/cm |
| APCO- BY-AP-MW-6  | DO        | DO                            | 4/4/23 8:42 AM  | 0.55    | mg/L  |
| APCO- BY-AP-MW-6  | DTW       | Depth to Water Detail         | 4/4/23 8:42 AM  | 19.86   | ft    |
| APCO- BY-AP-MW-6  | ORP       | Oxidation Reduction Potential | 4/4/23 8:42 AM  | 257.28  | mv    |
| APCO- BY-AP-MW-6  | PH        | pH                            | 4/4/23 8:42 AM  | 5.28    | SU    |
| APCO- BY-AP-MW-6  | TEMP      | Temperature                   | 4/4/23 8:42 AM  | 21.35   | C     |
| APCO- BY-AP-MW-6  | TURB      | Turbidity                     | 4/4/23 8:42 AM  | 1.5     | NTU   |
| APCO- BY-AP-MW-6  | COND      | Conductivity                  | 4/4/23 8:47 AM  | 61.93   | uS/cm |
| APCO- BY-AP-MW-6  | DO        | DO                            | 4/4/23 8:47 AM  | 0.55    | mg/L  |
| APCO- BY-AP-MW-6  | DTW       | Depth to Water Detail         | 4/4/23 8:47 AM  | 19.86   | ft    |
| APCO- BY-AP-MW-6  | ORP       | Oxidation Reduction Potential | 4/4/23 8:47 AM  | 245.91  | mv    |
| APCO- BY-AP-MW-6  | PH        | pH                            | 4/4/23 8:47 AM  | 5.33    | SU    |
| APCO- BY-AP-MW-6  | SULFIDE   | Sulfide                       | 4/4/23 8:47 AM  | 0       | mg/L  |
| APCO- BY-AP-MW-6  | TEMP      | Temperature                   | 4/4/23 8:47 AM  | 21.41   | C     |
| APCO- BY-AP-MW-6  | TURB      | Turbidity                     | 4/4/23 8:47 AM  | 1.33    | NTU   |
| APCO- BY-AP-MW-7  | COND      | Conductivity                  | 4/3/23 5:19 PM  | 381.35  | uS/cm |
| APCO- BY-AP-MW-7  | DO        | DO                            | 4/3/23 5:19 PM  | 0.2     | mg/L  |
| APCO- BY-AP-MW-7  | DTW       | Depth to Water Detail         | 4/3/23 5:19 PM  | 18.46   | ft    |
| APCO- BY-AP-MW-7  | ORP       | Oxidation Reduction Potential | 4/3/23 5:19 PM  | -62.4   | mv    |
| APCO- BY-AP-MW-7  | PH        | pH                            | 4/3/23 5:19 PM  | 6.51    | SU    |
| APCO- BY-AP-MW-7  | TEMP      | Temperature                   | 4/3/23 5:19 PM  | 21.38   | C     |
| APCO- BY-AP-MW-7  | TURB      | Turbidity                     | 4/3/23 5:19 PM  | 0.93    | NTU   |
| APCO- BY-AP-MW-7  | COND      | Conductivity                  | 4/3/23 5:24 PM  | 378.5   | uS/cm |
| APCO- BY-AP-MW-7  | DO        | DO                            | 4/3/23 5:24 PM  | 0.2     | mg/L  |
| APCO- BY-AP-MW-7  | DTW       | Depth to Water Detail         | 4/3/23 5:24 PM  | 18.46   | ft    |
| APCO- BY-AP-MW-7  | ORP       | Oxidation Reduction Potential | 4/3/23 5:24 PM  | -64     | mv    |
| APCO- BY-AP-MW-7  | PH        | pH                            | 4/3/23 5:24 PM  | 6.51    | SU    |
| APCO- BY-AP-MW-7  | TEMP      | Temperature                   | 4/3/23 5:24 PM  | 21.31   | C     |
| APCO- BY-AP-MW-7  | TURB      | Turbidity                     | 4/3/23 5:24 PM  | 0.97    | NTU   |
| APCO- BY-AP-MW-7  | COND      | Conductivity                  | 4/3/23 5:29 PM  | 378.3   | uS/cm |
| APCO- BY-AP-MW-7  | DO        | DO                            | 4/3/23 5:29 PM  | 0.21    | mg/L  |
| APCO- BY-AP-MW-7  | DTW       | Depth to Water Detail         | 4/3/23 5:29 PM  | 18.46   | ft    |
| APCO- BY-AP-MW-7  | ORP       | Oxidation Reduction Potential | 4/3/23 5:29 PM  | -65.23  | mv    |
| APCO- BY-AP-MW-7  | PH        | pH                            | 4/3/23 5:29 PM  | 6.52    | SU    |
| APCO- BY-AP-MW-7  | TEMP      | Temperature                   | 4/3/23 5:29 PM  | 21.26   | C     |
| APCO- BY-AP-MW-7  | TURB      | Turbidity                     | 4/3/23 5:29 PM  | 0.82    | NTU   |
| APCO- BY-AP-MW-7  | COND      | Conductivity                  | 4/3/23 5:34 PM  | 376.47  | uS/cm |
| APCO- BY-AP-MW-7  | DO        | DO                            | 4/3/23 5:34 PM  | 0.21    | mg/L  |
| APCO- BY-AP-MW-7  | DTW       | Depth to Water Detail         | 4/3/23 5:34 PM  | 18.46   | ft    |
| APCO- BY-AP-MW-7  | ORP       | Oxidation Reduction Potential | 4/3/23 5:34 PM  | -66.15  | mv    |
| APCO- BY-AP-MW-7  | PH        | pH                            | 4/3/23 5:34 PM  | 6.53    | SU    |
| APCO- BY-AP-MW-7  | SULFIDE   | Sulfide                       | 4/3/23 5:34 PM  | 0       | mg/L  |
| APCO- BY-AP-MW-7  | TEMP      | Temperature                   | 4/3/23 5:34 PM  | 21.16   | C     |
| APCO- BY-AP-MW-7  | TURB      | Turbidity                     | 4/3/23 5:34 PM  | 1.03    | NTU   |
| APCO- BY-AP-MW-7V | COND      | Conductivity                  | 4/3/23 4:23 PM  | 565.95  | uS/cm |
| APCO- BY-AP-MW-7V | DO        | DO                            | 4/3/23 4:23 PM  | 0.21    | mg/L  |
| APCO- BY-AP-MW-7V | DTW       | Depth to Water Detail         | 4/3/23 4:23 PM  | 17.95   | ft    |
| APCO- BY-AP-MW-7V | ORP       | Oxidation Reduction Potential | 4/3/23 4:23 PM  | -185.1  | mv    |
| APCO- BY-AP-MW-7V | PH        | pH                            | 4/3/23 4:23 PM  | 7.68    | SU    |
| APCO- BY-AP-MW-7V | TEMP      | Temperature                   | 4/3/23 4:23 PM  | 21.7    | C     |
| APCO- BY-AP-MW-7V | TURB      | Turbidity                     | 4/3/23 4:23 PM  | 1.85    | NTU   |
| APCO- BY-AP-MW-7V | COND      | Conductivity                  | 4/3/23 4:28 PM  | 564.5   | uS/cm |
| APCO- BY-AP-MW-7V | DO        | DO                            | 4/3/23 4:28 PM  | 0.18    | mg/L  |
| APCO- BY-AP-MW-7V | DTW       | Depth to Water Detail         | 4/3/23 4:28 PM  | 18.04   | ft    |
| APCO- BY-AP-MW-7V | ORP       | Oxidation Reduction Potential | 4/3/23 4:28 PM  | -186.33 | mv    |
| APCO- BY-AP-MW-7V | PH        | pH                            | 4/3/23 4:28 PM  | 7.67    | SU    |

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| WELL ID            | PARAMETER | DESCRIPTION                   | TIME OF READING | VALUE   | UNIT  |
|--------------------|-----------|-------------------------------|-----------------|---------|-------|
| APCO- BY-AP-MW-7V  | TEMP      | Temperature                   | 4/3/23 4:28 PM  | 21.55   | C     |
| APCO- BY-AP-MW-7V  | TURB      | Turbidity                     | 4/3/23 4:28 PM  | 1.98    | NTU   |
| APCO- BY-AP-MW-7V  | COND      | Conductivity                  | 4/3/23 4:33 PM  | 563.4   | uS/cm |
| APCO- BY-AP-MW-7V  | DO        | DO                            | 4/3/23 4:33 PM  | 0.18    | mg/L  |
| APCO- BY-AP-MW-7V  | DTW       | Depth to Water Detail         | 4/3/23 4:33 PM  | 18.04   | ft    |
| APCO- BY-AP-MW-7V  | ORP       | Oxidation Reduction Potential | 4/3/23 4:33 PM  | -185.98 | mv    |
| APCO- BY-AP-MW-7V  | PH        | pH                            | 4/3/23 4:33 PM  | 7.66    | SU    |
| APCO- BY-AP-MW-7V  | TEMP      | Temperature                   | 4/3/23 4:33 PM  | 21.54   | C     |
| APCO- BY-AP-MW-7V  | TURB      | Turbidity                     | 4/3/23 4:33 PM  | 2.05    | NTU   |
| APCO- BY-AP-MW-7V  | COND      | Conductivity                  | 4/3/23 4:38 PM  | 561.78  | uS/cm |
| APCO- BY-AP-MW-7V  | DO        | DO                            | 4/3/23 4:38 PM  | 0.17    | mg/L  |
| APCO- BY-AP-MW-7V  | DTW       | Depth to Water Detail         | 4/3/23 4:38 PM  | 18.04   | ft    |
| APCO- BY-AP-MW-7V  | ORP       | Oxidation Reduction Potential | 4/3/23 4:38 PM  | -184.77 | mv    |
| APCO- BY-AP-MW-7V  | PH        | pH                            | 4/3/23 4:38 PM  | 7.67    | SU    |
| APCO- BY-AP-MW-7V  | SULFIDE   | Sulfide                       | 4/3/23 4:38 PM  | 0       | mg/L  |
| APCO- BY-AP-MW-7V  | TEMP      | Temperature                   | 4/3/23 4:38 PM  | 21.47   | C     |
| APCO- BY-AP-MW-7V  | TURB      | Turbidity                     | 4/3/23 4:38 PM  | 1.94    | NTU   |
| APCO- BY-AP-MW-10V | COND      | Conductivity                  | 4/3/23 2:59 PM  | 778.9   | uS/cm |
| APCO- BY-AP-MW-10V | DO        | DO                            | 4/3/23 2:59 PM  | 0.2     | mg/L  |
| APCO- BY-AP-MW-10V | DTW       | Depth to Water Detail         | 4/3/23 2:59 PM  | 18.75   | ft    |
| APCO- BY-AP-MW-10V | ORP       | Oxidation Reduction Potential | 4/3/23 2:59 PM  | -103.5  | mv    |
| APCO- BY-AP-MW-10V | PH        | pH                            | 4/3/23 2:59 PM  | 6.36    | SU    |
| APCO- BY-AP-MW-10V | TEMP      | Temperature                   | 4/3/23 2:59 PM  | 21.51   | C     |
| APCO- BY-AP-MW-10V | TURB      | Turbidity                     | 4/3/23 2:59 PM  | 0.9     | NTU   |
| APCO- BY-AP-MW-10V | COND      | Conductivity                  | 4/3/23 3:04 PM  | 784.74  | uS/cm |
| APCO- BY-AP-MW-10V | DO        | DO                            | 4/3/23 3:04 PM  | 0.19    | mg/L  |
| APCO- BY-AP-MW-10V | DTW       | Depth to Water Detail         | 4/3/23 3:04 PM  | 18.75   | ft    |
| APCO- BY-AP-MW-10V | ORP       | Oxidation Reduction Potential | 4/3/23 3:04 PM  | -104.92 | mv    |
| APCO- BY-AP-MW-10V | PH        | pH                            | 4/3/23 3:04 PM  | 6.38    | SU    |
| APCO- BY-AP-MW-10V | TEMP      | Temperature                   | 4/3/23 3:04 PM  | 21.47   | C     |
| APCO- BY-AP-MW-10V | TURB      | Turbidity                     | 4/3/23 3:04 PM  | 3.01    | NTU   |
| APCO- BY-AP-MW-10V | COND      | Conductivity                  | 4/3/23 3:09 PM  | 785.59  | uS/cm |
| APCO- BY-AP-MW-10V | DO        | DO                            | 4/3/23 3:09 PM  | 0.2     | mg/L  |
| APCO- BY-AP-MW-10V | DTW       | Depth to Water Detail         | 4/3/23 3:09 PM  | 18.75   | ft    |
| APCO- BY-AP-MW-10V | ORP       | Oxidation Reduction Potential | 4/3/23 3:09 PM  | -105.54 | mv    |
| APCO- BY-AP-MW-10V | PH        | pH                            | 4/3/23 3:09 PM  | 6.37    | SU    |
| APCO- BY-AP-MW-10V | TEMP      | Temperature                   | 4/3/23 3:09 PM  | 21.5    | C     |
| APCO- BY-AP-MW-10V | TURB      | Turbidity                     | 4/3/23 3:09 PM  | 1.1     | NTU   |
| APCO- BY-AP-MW-10V | COND      | Conductivity                  | 4/3/23 3:14 PM  | 787.79  | uS/cm |
| APCO- BY-AP-MW-10V | DO        | DO                            | 4/3/23 3:14 PM  | 0.19    | mg/L  |
| APCO- BY-AP-MW-10V | DTW       | Depth to Water Detail         | 4/3/23 3:14 PM  | 18.75   | ft    |
| APCO- BY-AP-MW-10V | ORP       | Oxidation Reduction Potential | 4/3/23 3:14 PM  | -106.12 | mv    |
| APCO- BY-AP-MW-10V | PH        | pH                            | 4/3/23 3:14 PM  | 6.38    | SU    |
| APCO- BY-AP-MW-10V | SULFIDE   | Sulfide                       | 4/3/23 3:14 PM  | 0       | mg/L  |
| APCO- BY-AP-MW-10V | TEMP      | Temperature                   | 4/3/23 3:14 PM  | 21.47   | C     |
| APCO- BY-AP-MW-10V | TURB      | Turbidity                     | 4/3/23 3:14 PM  | 0.95    | NTU   |
| APCO- BY-AP-MW-11  | COND      | Conductivity                  | 4/4/23 11:08 AM | 694.01  | uS/cm |
| APCO- BY-AP-MW-11  | DO        | DO                            | 4/4/23 11:08 AM | 0.14    | mg/L  |
| APCO- BY-AP-MW-11  | DTW       | Depth to Water Detail         | 4/4/23 11:08 AM | 16.59   | ft    |
| APCO- BY-AP-MW-11  | ORP       | Oxidation Reduction Potential | 4/4/23 11:08 AM | -79.18  | mv    |
| APCO- BY-AP-MW-11  | PH        | pH                            | 4/4/23 11:08 AM | 6.26    | SU    |
| APCO- BY-AP-MW-11  | TEMP      | Temperature                   | 4/4/23 11:08 AM | 21.21   | C     |
| APCO- BY-AP-MW-11  | TURB      | Turbidity                     | 4/4/23 11:08 AM | 5.84    | NTU   |
| APCO- BY-AP-MW-11  | COND      | Conductivity                  | 4/4/23 11:13 AM | 685.82  | uS/cm |
| APCO- BY-AP-MW-11  | DO        | DO                            | 4/4/23 11:13 AM | 0.13    | mg/L  |
| APCO- BY-AP-MW-11  | DTW       | Depth to Water Detail         | 4/4/23 11:13 AM | 16.59   | ft    |
| APCO- BY-AP-MW-11  | ORP       | Oxidation Reduction Potential | 4/4/23 11:13 AM | -78.9   | mv    |
| APCO- BY-AP-MW-11  | PH        | pH                            | 4/4/23 11:13 AM | 6.26    | SU    |
| APCO- BY-AP-MW-11  | TEMP      | Temperature                   | 4/4/23 11:13 AM | 21.18   | C     |
| APCO- BY-AP-MW-11  | TURB      | Turbidity                     | 4/4/23 11:13 AM | 5.03    | NTU   |

Plant Barry Ash Pond  
Field Parameter Summary

| WELL ID            | PARAMETER | DESCRIPTION                   | TIME OF READING | VALUE  | UNIT  |
|--------------------|-----------|-------------------------------|-----------------|--------|-------|
| APCO- BY-AP-MW-11  | COND      | Conductivity                  | 4/4/23 11:18 AM | 679.52 | uS/cm |
| APCO- BY-AP-MW-11  | DO        | DO                            | 4/4/23 11:18 AM | 0.13   | mg/L  |
| APCO- BY-AP-MW-11  | DTW       | Depth to Water Detail         | 4/4/23 11:18 AM | 16.59  | ft    |
| APCO- BY-AP-MW-11  | ORP       | Oxidation Reduction Potential | 4/4/23 11:18 AM | -78.49 | mv    |
| APCO- BY-AP-MW-11  | PH        | pH                            | 4/4/23 11:18 AM | 6.26   | SU    |
| APCO- BY-AP-MW-11  | TEMP      | Temperature                   | 4/4/23 11:18 AM | 21.28  | C     |
| APCO- BY-AP-MW-11  | TURB      | Turbidity                     | 4/4/23 11:18 AM | 5.05   | NTU   |
| APCO- BY-AP-MW-11  | COND      | Conductivity                  | 4/4/23 11:23 AM | 672.85 | uS/cm |
| APCO- BY-AP-MW-11  | DO        | DO                            | 4/4/23 11:23 AM | 0.13   | mg/L  |
| APCO- BY-AP-MW-11  | DTW       | Depth to Water Detail         | 4/4/23 11:23 AM | 16.59  | ft    |
| APCO- BY-AP-MW-11  | ORP       | Oxidation Reduction Potential | 4/4/23 11:23 AM | -78.42 | mv    |
| APCO- BY-AP-MW-11  | PH        | pH                            | 4/4/23 11:23 AM | 6.27   | SU    |
| APCO- BY-AP-MW-11  | SULFIDE   | Sulfide                       | 4/4/23 11:23 AM | 0      | mg/L  |
| APCO- BY-AP-MW-11  | TEMP      | Temperature                   | 4/4/23 11:23 AM | 21.31  | C     |
| APCO- BY-AP-MW-11  | TURB      | Turbidity                     | 4/4/23 11:23 AM | 4.71   | NTU   |
| APCO- BY-AP-MW-12  | COND      | Conductivity                  | 4/4/23 1:26 PM  | 584.72 | uS/cm |
| APCO- BY-AP-MW-12  | DO        | DO                            | 4/4/23 1:26 PM  | 0.2    | mg/L  |
| APCO- BY-AP-MW-12  | DTW       | Depth to Water Detail         | 4/4/23 1:26 PM  | 17.26  | ft    |
| APCO- BY-AP-MW-12  | ORP       | Oxidation Reduction Potential | 4/4/23 1:26 PM  | -33.74 | mv    |
| APCO- BY-AP-MW-12  | PH        | pH                            | 4/4/23 1:26 PM  | 5.77   | SU    |
| APCO- BY-AP-MW-12  | TEMP      | Temperature                   | 4/4/23 1:26 PM  | 21.25  | C     |
| APCO- BY-AP-MW-12  | TURB      | Turbidity                     | 4/4/23 1:26 PM  | 3.41   | NTU   |
| APCO- BY-AP-MW-12  | COND      | Conductivity                  | 4/4/23 1:31 PM  | 583.58 | uS/cm |
| APCO- BY-AP-MW-12  | DO        | DO                            | 4/4/23 1:31 PM  | 0.17   | mg/L  |
| APCO- BY-AP-MW-12  | DTW       | Depth to Water Detail         | 4/4/23 1:31 PM  | 17.26  | ft    |
| APCO- BY-AP-MW-12  | ORP       | Oxidation Reduction Potential | 4/4/23 1:31 PM  | -32.09 | mv    |
| APCO- BY-AP-MW-12  | PH        | pH                            | 4/4/23 1:31 PM  | 5.74   | SU    |
| APCO- BY-AP-MW-12  | TEMP      | Temperature                   | 4/4/23 1:31 PM  | 21.24  | C     |
| APCO- BY-AP-MW-12  | TURB      | Turbidity                     | 4/4/23 1:31 PM  | 3.36   | NTU   |
| APCO- BY-AP-MW-12  | COND      | Conductivity                  | 4/4/23 1:36 PM  | 585.12 | uS/cm |
| APCO- BY-AP-MW-12  | DO        | DO                            | 4/4/23 1:36 PM  | 0.17   | mg/L  |
| APCO- BY-AP-MW-12  | DTW       | Depth to Water Detail         | 4/4/23 1:36 PM  | 17.26  | ft    |
| APCO- BY-AP-MW-12  | ORP       | Oxidation Reduction Potential | 4/4/23 1:36 PM  | -32.29 | mv    |
| APCO- BY-AP-MW-12  | PH        | pH                            | 4/4/23 1:36 PM  | 5.74   | SU    |
| APCO- BY-AP-MW-12  | TEMP      | Temperature                   | 4/4/23 1:36 PM  | 21.31  | C     |
| APCO- BY-AP-MW-12  | TURB      | Turbidity                     | 4/4/23 1:36 PM  | 2.28   | NTU   |
| APCO- BY-AP-MW-12  | COND      | Conductivity                  | 4/4/23 1:41 PM  | 584.5  | uS/cm |
| APCO- BY-AP-MW-12  | DO        | DO                            | 4/4/23 1:41 PM  | 0.17   | mg/L  |
| APCO- BY-AP-MW-12  | DTW       | Depth to Water Detail         | 4/4/23 1:41 PM  | 17.26  | ft    |
| APCO- BY-AP-MW-12  | ORP       | Oxidation Reduction Potential | 4/4/23 1:41 PM  | -33.59 | mv    |
| APCO- BY-AP-MW-12  | PH        | pH                            | 4/4/23 1:41 PM  | 5.76   | SU    |
| APCO- BY-AP-MW-12  | SULFIDE   | Sulfide                       | 4/4/23 1:41 PM  | 0      | mg/L  |
| APCO- BY-AP-MW-12  | TEMP      | Temperature                   | 4/4/23 1:41 PM  | 21.3   | C     |
| APCO- BY-AP-MW-12  | TURB      | Turbidity                     | 4/4/23 1:41 PM  | 2      | NTU   |
| APCO- BY-AP-MW-12V | COND      | Conductivity                  | 4/4/23 12:15 PM | 618.89 | uS/cm |
| APCO- BY-AP-MW-12V | DO        | DO                            | 4/4/23 12:15 PM | 0.26   | mg/L  |
| APCO- BY-AP-MW-12V | DTW       | Depth to Water Detail         | 4/4/23 12:15 PM | 16.79  | ft    |
| APCO- BY-AP-MW-12V | ORP       | Oxidation Reduction Potential | 4/4/23 12:15 PM | -54.95 | mv    |
| APCO- BY-AP-MW-12V | PH        | pH                            | 4/4/23 12:15 PM | 6.08   | SU    |
| APCO- BY-AP-MW-12V | TEMP      | Temperature                   | 4/4/23 12:15 PM | 21.36  | C     |
| APCO- BY-AP-MW-12V | TURB      | Turbidity                     | 4/4/23 12:15 PM | 1.72   | NTU   |
| APCO- BY-AP-MW-12V | COND      | Conductivity                  | 4/4/23 12:20 PM | 617.26 | uS/cm |
| APCO- BY-AP-MW-12V | DO        | DO                            | 4/4/23 12:20 PM | 0.21   | mg/L  |
| APCO- BY-AP-MW-12V | DTW       | Depth to Water Detail         | 4/4/23 12:20 PM | 16.79  | ft    |
| APCO- BY-AP-MW-12V | ORP       | Oxidation Reduction Potential | 4/4/23 12:20 PM | -59.79 | mv    |
| APCO- BY-AP-MW-12V | PH        | pH                            | 4/4/23 12:20 PM | 6.14   | SU    |
| APCO- BY-AP-MW-12V | TEMP      | Temperature                   | 4/4/23 12:20 PM | 21.14  | C     |
| APCO- BY-AP-MW-12V | TURB      | Turbidity                     | 4/4/23 12:20 PM | 2.28   | NTU   |
| APCO- BY-AP-MW-12V | COND      | Conductivity                  | 4/4/23 12:25 PM | 617.67 | uS/cm |
| APCO- BY-AP-MW-12V | DO        | DO                            | 4/4/23 12:25 PM | 0.16   | mg/L  |

Plant Barry Ash Pond  
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| WELL ID            | PARAMETER | DESCRIPTION                   | TIME OF READING | VALUE  | UNIT  |
|--------------------|-----------|-------------------------------|-----------------|--------|-------|
| APCO- BY-AP-MW-12V | DTW       | Depth to Water Detail         | 4/4/23 12:25 PM | 16.79  | ft    |
| APCO- BY-AP-MW-12V | ORP       | Oxidation Reduction Potential | 4/4/23 12:25 PM | -63.15 | mv    |
| APCO- BY-AP-MW-12V | PH        | pH                            | 4/4/23 12:25 PM | 6.19   | SU    |
| APCO- BY-AP-MW-12V | TEMP      | Temperature                   | 4/4/23 12:25 PM | 21.34  | C     |
| APCO- BY-AP-MW-12V | TURB      | Turbidity                     | 4/4/23 12:25 PM | 1.36   | NTU   |
| APCO- BY-AP-MW-12V | COND      | Conductivity                  | 4/4/23 12:30 PM | 615.08 | uS/cm |
| APCO- BY-AP-MW-12V | DO        | DO                            | 4/4/23 12:30 PM | 0.16   | mg/L  |
| APCO- BY-AP-MW-12V | DTW       | Depth to Water Detail         | 4/4/23 12:30 PM | 16.79  | ft    |
| APCO- BY-AP-MW-12V | ORP       | Oxidation Reduction Potential | 4/4/23 12:30 PM | -65.41 | mv    |
| APCO- BY-AP-MW-12V | PH        | pH                            | 4/4/23 12:30 PM | 6.22   | SU    |
| APCO- BY-AP-MW-12V | SULFIDE   | Sulfide                       | 4/4/23 12:30 PM | 0      | mg/L  |
| APCO- BY-AP-MW-12V | TEMP      | Temperature                   | 4/4/23 12:30 PM | 21.36  | C     |
| APCO- BY-AP-MW-12V | TURB      | Turbidity                     | 4/4/23 12:30 PM | 1.78   | NTU   |
| APCO- BY-AP-MW-13  | COND      | Conductivity                  | 4/4/23 2:42 PM  | 333.39 | uS/cm |
| APCO- BY-AP-MW-13  | DO        | DO                            | 4/4/23 2:42 PM  | 0.22   | mg/L  |
| APCO- BY-AP-MW-13  | DTW       | Depth to Water Detail         | 4/4/23 2:42 PM  | 17.4   | ft    |
| APCO- BY-AP-MW-13  | ORP       | Oxidation Reduction Potential | 4/4/23 2:42 PM  | 33.75  | mv    |
| APCO- BY-AP-MW-13  | PH        | pH                            | 4/4/23 2:42 PM  | 6.19   | SU    |
| APCO- BY-AP-MW-13  | TEMP      | Temperature                   | 4/4/23 2:42 PM  | 20.8   | C     |
| APCO- BY-AP-MW-13  | TURB      | Turbidity                     | 4/4/23 2:42 PM  | 9.19   | NTU   |
| APCO- BY-AP-MW-13  | COND      | Conductivity                  | 4/4/23 2:47 PM  | 339.81 | uS/cm |
| APCO- BY-AP-MW-13  | DO        | DO                            | 4/4/23 2:47 PM  | 0.2    | mg/L  |
| APCO- BY-AP-MW-13  | DTW       | Depth to Water Detail         | 4/4/23 2:47 PM  | 17.43  | ft    |
| APCO- BY-AP-MW-13  | ORP       | Oxidation Reduction Potential | 4/4/23 2:47 PM  | 30.88  | mv    |
| APCO- BY-AP-MW-13  | PH        | pH                            | 4/4/23 2:47 PM  | 6.11   | SU    |
| APCO- BY-AP-MW-13  | TEMP      | Temperature                   | 4/4/23 2:47 PM  | 20.85  | C     |
| APCO- BY-AP-MW-13  | TURB      | Turbidity                     | 4/4/23 2:47 PM  | 7.51   | NTU   |
| APCO- BY-AP-MW-13  | COND      | Conductivity                  | 4/4/23 2:52 PM  | 345.55 | uS/cm |
| APCO- BY-AP-MW-13  | DO        | DO                            | 4/4/23 2:52 PM  | 0.19   | mg/L  |
| APCO- BY-AP-MW-13  | DTW       | Depth to Water Detail         | 4/4/23 2:52 PM  | 17.43  | ft    |
| APCO- BY-AP-MW-13  | ORP       | Oxidation Reduction Potential | 4/4/23 2:52 PM  | 18.73  | mv    |
| APCO- BY-AP-MW-13  | PH        | pH                            | 4/4/23 2:52 PM  | 6.08   | SU    |
| APCO- BY-AP-MW-13  | TEMP      | Temperature                   | 4/4/23 2:52 PM  | 20.82  | C     |
| APCO- BY-AP-MW-13  | TURB      | Turbidity                     | 4/4/23 2:52 PM  | 6.03   | NTU   |
| APCO- BY-AP-MW-13  | COND      | Conductivity                  | 4/4/23 2:57 PM  | 349.79 | uS/cm |
| APCO- BY-AP-MW-13  | DO        | DO                            | 4/4/23 2:57 PM  | 0.2    | mg/L  |
| APCO- BY-AP-MW-13  | DTW       | Depth to Water Detail         | 4/4/23 2:57 PM  | 17.43  | ft    |
| APCO- BY-AP-MW-13  | ORP       | Oxidation Reduction Potential | 4/4/23 2:57 PM  | 14.29  | mv    |
| APCO- BY-AP-MW-13  | PH        | pH                            | 4/4/23 2:57 PM  | 6.06   | SU    |
| APCO- BY-AP-MW-13  | TEMP      | Temperature                   | 4/4/23 2:57 PM  | 20.85  | C     |
| APCO- BY-AP-MW-13  | TURB      | Turbidity                     | 4/4/23 2:57 PM  | 5.52   | NTU   |
| APCO- BY-AP-MW-13  | COND      | Conductivity                  | 4/4/23 3:02 PM  | 352.44 | uS/cm |
| APCO- BY-AP-MW-13  | DO        | DO                            | 4/4/23 3:02 PM  | 0.19   | mg/L  |
| APCO- BY-AP-MW-13  | DTW       | Depth to Water Detail         | 4/4/23 3:02 PM  | 17.43  | ft    |
| APCO- BY-AP-MW-13  | ORP       | Oxidation Reduction Potential | 4/4/23 3:02 PM  | 12.18  | mv    |
| APCO- BY-AP-MW-13  | PH        | pH                            | 4/4/23 3:02 PM  | 6.06   | SU    |
| APCO- BY-AP-MW-13  | SULFIDE   | Sulfide                       | 4/4/23 3:02 PM  | 0      | mg/L  |
| APCO- BY-AP-MW-13  | TEMP      | Temperature                   | 4/4/23 3:02 PM  | 20.83  | C     |
| APCO- BY-AP-MW-13  | TURB      | Turbidity                     | 4/4/23 3:02 PM  | 4.16   | NTU   |
| APCO- BY-AP-MW-13V | COND      | Conductivity                  | 4/4/23 3:32 PM  | 566.93 | uS/cm |
| APCO- BY-AP-MW-13V | DO        | DO                            | 4/4/23 3:32 PM  | 0.78   | mg/L  |
| APCO- BY-AP-MW-13V | DTW       | Depth to Water Detail         | 4/4/23 3:32 PM  | 18.05  | ft    |
| APCO- BY-AP-MW-13V | ORP       | Oxidation Reduction Potential | 4/4/23 3:32 PM  | -47.22 | mv    |
| APCO- BY-AP-MW-13V | PH        | pH                            | 4/4/23 3:32 PM  | 6.2    | SU    |
| APCO- BY-AP-MW-13V | TEMP      | Temperature                   | 4/4/23 3:32 PM  | 21.03  | C     |
| APCO- BY-AP-MW-13V | TURB      | Turbidity                     | 4/4/23 3:32 PM  | 2.58   | NTU   |
| APCO- BY-AP-MW-13V | COND      | Conductivity                  | 4/4/23 3:37 PM  | 565.17 | uS/cm |
| APCO- BY-AP-MW-13V | DO        | DO                            | 4/4/23 3:37 PM  | 0.75   | mg/L  |
| APCO- BY-AP-MW-13V | DTW       | Depth to Water Detail         | 4/4/23 3:37 PM  | 18.05  | ft    |
| APCO- BY-AP-MW-13V | ORP       | Oxidation Reduction Potential | 4/4/23 3:37 PM  | -47.8  | mv    |

Plant Barry Ash Pond  
Field Parameter Summary

| WELL ID            | PARAMETER | DESCRIPTION                   | TIME OF READING | VALUE   | UNIT  |
|--------------------|-----------|-------------------------------|-----------------|---------|-------|
| APCO- BY-AP-MW-13V | PH        | pH                            | 4/4/23 3:37 PM  | 6.21    | SU    |
| APCO- BY-AP-MW-13V | TEMP      | Temperature                   | 4/4/23 3:37 PM  | 21.01   | C     |
| APCO- BY-AP-MW-13V | TURB      | Turbidity                     | 4/4/23 3:37 PM  | 4.01    | NTU   |
| APCO- BY-AP-MW-13V | COND      | Conductivity                  | 4/4/23 3:42 PM  | 562.88  | uS/cm |
| APCO- BY-AP-MW-13V | DO        | DO                            | 4/4/23 3:42 PM  | 0.64    | mg/L  |
| APCO- BY-AP-MW-13V | DTW       | Depth to Water Detail         | 4/4/23 3:42 PM  | 18.05   | ft    |
| APCO- BY-AP-MW-13V | ORP       | Oxidation Reduction Potential | 4/4/23 3:42 PM  | -47.41  | mv    |
| APCO- BY-AP-MW-13V | PH        | pH                            | 4/4/23 3:42 PM  | 6.22    | SU    |
| APCO- BY-AP-MW-13V | TEMP      | Temperature                   | 4/4/23 3:42 PM  | 21.03   | C     |
| APCO- BY-AP-MW-13V | TURB      | Turbidity                     | 4/4/23 3:42 PM  | 3.57    | NTU   |
| APCO- BY-AP-MW-13V | COND      | Conductivity                  | 4/4/23 3:47 PM  | 565.28  | uS/cm |
| APCO- BY-AP-MW-13V | DO        | DO                            | 4/4/23 3:47 PM  | 0.68    | mg/L  |
| APCO- BY-AP-MW-13V | DTW       | Depth to Water Detail         | 4/4/23 3:47 PM  | 18.05   | ft    |
| APCO- BY-AP-MW-13V | ORP       | Oxidation Reduction Potential | 4/4/23 3:47 PM  | -48.09  | mv    |
| APCO- BY-AP-MW-13V | PH        | pH                            | 4/4/23 3:47 PM  | 6.24    | SU    |
| APCO- BY-AP-MW-13V | SULFIDE   | Sulfide                       | 4/4/23 3:47 PM  | 0       | mg/L  |
| APCO- BY-AP-MW-13V | TEMP      | Temperature                   | 4/4/23 3:47 PM  | 21.02   | C     |
| APCO- BY-AP-MW-13V | TURB      | Turbidity                     | 4/4/23 3:47 PM  | 3.69    | NTU   |
| APCO- BY-AP-MW-15  | COND      | Conductivity                  | 4/3/23 8:44 AM  | 647.59  | uS/cm |
| APCO- BY-AP-MW-15  | DO        | DO                            | 4/3/23 8:44 AM  | 0.02    | mg/L  |
| APCO- BY-AP-MW-15  | DTW       | Depth to Water Detail         | 4/3/23 8:44 AM  | 17.13   | ft    |
| APCO- BY-AP-MW-15  | ORP       | Oxidation Reduction Potential | 4/3/23 8:44 AM  | -145.43 | mv    |
| APCO- BY-AP-MW-15  | PH        | pH                            | 4/3/23 8:44 AM  | 6.64    | SU    |
| APCO- BY-AP-MW-15  | TEMP      | Temperature                   | 4/3/23 8:44 AM  | 21.32   | C     |
| APCO- BY-AP-MW-15  | TURB      | Turbidity                     | 4/3/23 8:44 AM  | 33.7    | NTU   |
| APCO- BY-AP-MW-15  | COND      | Conductivity                  | 4/3/23 8:49 AM  | 610.68  | uS/cm |
| APCO- BY-AP-MW-15  | DO        | DO                            | 4/3/23 8:49 AM  | 0.01    | mg/L  |
| APCO- BY-AP-MW-15  | DTW       | Depth to Water Detail         | 4/3/23 8:49 AM  | 17.13   | ft    |
| APCO- BY-AP-MW-15  | ORP       | Oxidation Reduction Potential | 4/3/23 8:49 AM  | -135.65 | mv    |
| APCO- BY-AP-MW-15  | PH        | pH                            | 4/3/23 8:49 AM  | 6.62    | SU    |
| APCO- BY-AP-MW-15  | TEMP      | Temperature                   | 4/3/23 8:49 AM  | 21.28   | C     |
| APCO- BY-AP-MW-15  | TURB      | Turbidity                     | 4/3/23 8:49 AM  | 28.9    | NTU   |
| APCO- BY-AP-MW-15  | COND      | Conductivity                  | 4/3/23 8:54 AM  | 603.18  | uS/cm |
| APCO- BY-AP-MW-15  | DO        | DO                            | 4/3/23 8:54 AM  | 0.02    | mg/L  |
| APCO- BY-AP-MW-15  | DTW       | Depth to Water Detail         | 4/3/23 8:54 AM  | 17.13   | ft    |
| APCO- BY-AP-MW-15  | ORP       | Oxidation Reduction Potential | 4/3/23 8:54 AM  | -131.19 | mv    |
| APCO- BY-AP-MW-15  | PH        | pH                            | 4/3/23 8:54 AM  | 6.62    | SU    |
| APCO- BY-AP-MW-15  | TEMP      | Temperature                   | 4/3/23 8:54 AM  | 21.3    | C     |
| APCO- BY-AP-MW-15  | TURB      | Turbidity                     | 4/3/23 8:54 AM  | 11.84   | NTU   |
| APCO- BY-AP-MW-15  | COND      | Conductivity                  | 4/3/23 8:59 AM  | 601.15  | uS/cm |
| APCO- BY-AP-MW-15  | DO        | DO                            | 4/3/23 8:59 AM  | 0.02    | mg/L  |
| APCO- BY-AP-MW-15  | DTW       | Depth to Water Detail         | 4/3/23 8:59 AM  | 17.13   | ft    |
| APCO- BY-AP-MW-15  | ORP       | Oxidation Reduction Potential | 4/3/23 8:59 AM  | -127.78 | mv    |
| APCO- BY-AP-MW-15  | PH        | pH                            | 4/3/23 8:59 AM  | 6.61    | SU    |
| APCO- BY-AP-MW-15  | TEMP      | Temperature                   | 4/3/23 8:59 AM  | 21.24   | C     |
| APCO- BY-AP-MW-15  | TURB      | Turbidity                     | 4/3/23 8:59 AM  | 8.48    | NTU   |
| APCO- BY-AP-MW-15  | COND      | Conductivity                  | 4/3/23 9:04 AM  | 595.75  | uS/cm |
| APCO- BY-AP-MW-15  | DO        | DO                            | 4/3/23 9:04 AM  | 0.02    | mg/L  |
| APCO- BY-AP-MW-15  | DTW       | Depth to Water Detail         | 4/3/23 9:04 AM  | 17.13   | ft    |
| APCO- BY-AP-MW-15  | ORP       | Oxidation Reduction Potential | 4/3/23 9:04 AM  | -125.74 | mv    |
| APCO- BY-AP-MW-15  | PH        | pH                            | 4/3/23 9:04 AM  | 6.62    | SU    |
| APCO- BY-AP-MW-15  | TEMP      | Temperature                   | 4/3/23 9:04 AM  | 21.2    | C     |
| APCO- BY-AP-MW-15  | TURB      | Turbidity                     | 4/3/23 9:04 AM  | 7.49    | NTU   |
| APCO- BY-AP-MW-15  | COND      | Conductivity                  | 4/3/23 9:09 AM  | 592.6   | uS/cm |
| APCO- BY-AP-MW-15  | DO        | DO                            | 4/3/23 9:09 AM  | 0.02    | mg/L  |
| APCO- BY-AP-MW-15  | DTW       | Depth to Water Detail         | 4/3/23 9:09 AM  | 17.13   | ft    |
| APCO- BY-AP-MW-15  | ORP       | Oxidation Reduction Potential | 4/3/23 9:09 AM  | -124.3  | mv    |
| APCO- BY-AP-MW-15  | PH        | pH                            | 4/3/23 9:09 AM  | 6.63    | SU    |
| APCO- BY-AP-MW-15  | SULFIDE   | Sulfide                       | 4/3/23 9:09 AM  | 0       | mg/L  |
| APCO- BY-AP-MW-15  | TEMP      | Temperature                   | 4/3/23 9:09 AM  | 21.23   | C     |

Plant Barry Ash Pond  
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| WELL ID            | PARAMETER | DESCRIPTION                   | TIME OF READING | VALUE  | UNIT  |
|--------------------|-----------|-------------------------------|-----------------|--------|-------|
| APCO- BY-AP-MW-15  | TURB      | Turbidity                     | 4/3/23 9:09 AM  | 8.81   | NTU   |
| APCO- BY-AP-MW-24H | COND      | Conductivity                  | 4/3/23 11:30 AM | 801.71 | uS/cm |
| APCO- BY-AP-MW-24H | DO        | DO                            | 4/3/23 11:30 AM | 0.04   | mg/L  |
| APCO- BY-AP-MW-24H | DTW       | Depth to Water Detail         | 4/3/23 11:30 AM | 19.55  | ft    |
| APCO- BY-AP-MW-24H | ORP       | Oxidation Reduction Potential | 4/3/23 11:30 AM | -73.99 | mv    |
| APCO- BY-AP-MW-24H | PH        | pH                            | 4/3/23 11:30 AM | 6.04   | SU    |
| APCO- BY-AP-MW-24H | TEMP      | Temperature                   | 4/3/23 11:30 AM | 22.04  | C     |
| APCO- BY-AP-MW-24H | TURB      | Turbidity                     | 4/3/23 11:30 AM | 3.22   | NTU   |
| APCO- BY-AP-MW-24H | COND      | Conductivity                  | 4/3/23 11:35 AM | 802.42 | uS/cm |
| APCO- BY-AP-MW-24H | DO        | DO                            | 4/3/23 11:35 AM | 0.03   | mg/L  |
| APCO- BY-AP-MW-24H | DTW       | Depth to Water Detail         | 4/3/23 11:35 AM | 19.55  | ft    |
| APCO- BY-AP-MW-24H | ORP       | Oxidation Reduction Potential | 4/3/23 11:35 AM | -74.34 | mv    |
| APCO- BY-AP-MW-24H | PH        | pH                            | 4/3/23 11:35 AM | 6.04   | SU    |
| APCO- BY-AP-MW-24H | TEMP      | Temperature                   | 4/3/23 11:35 AM | 21.99  | C     |
| APCO- BY-AP-MW-24H | TURB      | Turbidity                     | 4/3/23 11:35 AM | 4.85   | NTU   |
| APCO- BY-AP-MW-24H | COND      | Conductivity                  | 4/3/23 11:40 AM | 804.4  | uS/cm |
| APCO- BY-AP-MW-24H | DO        | DO                            | 4/3/23 11:40 AM | 0.03   | mg/L  |
| APCO- BY-AP-MW-24H | DTW       | Depth to Water Detail         | 4/3/23 11:40 AM | 19.55  | ft    |
| APCO- BY-AP-MW-24H | ORP       | Oxidation Reduction Potential | 4/3/23 11:40 AM | -75.5  | mv    |
| APCO- BY-AP-MW-24H | PH        | pH                            | 4/3/23 11:40 AM | 6.07   | SU    |
| APCO- BY-AP-MW-24H | TEMP      | Temperature                   | 4/3/23 11:40 AM | 21.89  | C     |
| APCO- BY-AP-MW-24H | TURB      | Turbidity                     | 4/3/23 11:40 AM | 3.3    | NTU   |
| APCO- BY-AP-MW-24H | COND      | Conductivity                  | 4/3/23 11:45 AM | 804.05 | uS/cm |
| APCO- BY-AP-MW-24H | DO        | DO                            | 4/3/23 11:45 AM | 0.03   | mg/L  |
| APCO- BY-AP-MW-24H | DTW       | Depth to Water Detail         | 4/3/23 11:45 AM | 19.55  | ft    |
| APCO- BY-AP-MW-24H | ORP       | Oxidation Reduction Potential | 4/3/23 11:45 AM | -75.45 | mv    |
| APCO- BY-AP-MW-24H | PH        | pH                            | 4/3/23 11:45 AM | 6.08   | SU    |
| APCO- BY-AP-MW-24H | SULFIDE   | Sulfide                       | 4/3/23 11:45 AM | 0      | mg/L  |
| APCO- BY-AP-MW-24H | TEMP      | Temperature                   | 4/3/23 11:45 AM | 21.89  | C     |
| APCO- BY-AP-MW-24H | TURB      | Turbidity                     | 4/3/23 11:45 AM | 7.19   | NTU   |
| APCO- BY-AP-MW-25H | COND      | Conductivity                  | 4/3/23 2:06 PM  | 46.57  | uS/cm |
| APCO- BY-AP-MW-25H | DO        | DO                            | 4/3/23 2:06 PM  | 0.75   | mg/L  |
| APCO- BY-AP-MW-25H | DTW       | Depth to Water Detail         | 4/3/23 2:06 PM  | 17.61  | ft    |
| APCO- BY-AP-MW-25H | ORP       | Oxidation Reduction Potential | 4/3/23 2:06 PM  | 215.78 | mv    |
| APCO- BY-AP-MW-25H | PH        | pH                            | 4/3/23 2:06 PM  | 4.63   | SU    |
| APCO- BY-AP-MW-25H | TEMP      | Temperature                   | 4/3/23 2:06 PM  | 23.2   | C     |
| APCO- BY-AP-MW-25H | TURB      | Turbidity                     | 4/3/23 2:06 PM  | 4.76   | NTU   |
| APCO- BY-AP-MW-25H | COND      | Conductivity                  | 4/3/23 2:11 PM  | 46.06  | uS/cm |
| APCO- BY-AP-MW-25H | DO        | DO                            | 4/3/23 2:11 PM  | 0.73   | mg/L  |
| APCO- BY-AP-MW-25H | DTW       | Depth to Water Detail         | 4/3/23 2:11 PM  | 17.61  | ft    |
| APCO- BY-AP-MW-25H | ORP       | Oxidation Reduction Potential | 4/3/23 2:11 PM  | 218.99 | mv    |
| APCO- BY-AP-MW-25H | PH        | pH                            | 4/3/23 2:11 PM  | 4.7    | SU    |
| APCO- BY-AP-MW-25H | TEMP      | Temperature                   | 4/3/23 2:11 PM  | 23.12  | C     |
| APCO- BY-AP-MW-25H | TURB      | Turbidity                     | 4/3/23 2:11 PM  | 3.46   | NTU   |
| APCO- BY-AP-MW-25H | COND      | Conductivity                  | 4/3/23 2:16 PM  | 45.85  | uS/cm |
| APCO- BY-AP-MW-25H | DO        | DO                            | 4/3/23 2:16 PM  | 0.73   | mg/L  |
| APCO- BY-AP-MW-25H | DTW       | Depth to Water Detail         | 4/3/23 2:16 PM  | 17.61  | ft    |
| APCO- BY-AP-MW-25H | ORP       | Oxidation Reduction Potential | 4/3/23 2:16 PM  | 227.7  | mv    |
| APCO- BY-AP-MW-25H | PH        | pH                            | 4/3/23 2:16 PM  | 4.63   | SU    |
| APCO- BY-AP-MW-25H | TEMP      | Temperature                   | 4/3/23 2:16 PM  | 23.01  | C     |
| APCO- BY-AP-MW-25H | TURB      | Turbidity                     | 4/3/23 2:16 PM  | 3.16   | NTU   |
| APCO- BY-AP-MW-25H | COND      | Conductivity                  | 4/3/23 2:21 PM  | 45.8   | uS/cm |
| APCO- BY-AP-MW-25H | DO        | DO                            | 4/3/23 2:21 PM  | 0.72   | mg/L  |
| APCO- BY-AP-MW-25H | DTW       | Depth to Water Detail         | 4/3/23 2:21 PM  | 17.61  | ft    |
| APCO- BY-AP-MW-25H | ORP       | Oxidation Reduction Potential | 4/3/23 2:21 PM  | 231.08 | mv    |
| APCO- BY-AP-MW-25H | PH        | pH                            | 4/3/23 2:21 PM  | 4.65   | SU    |
| APCO- BY-AP-MW-25H | SULFIDE   | Sulfide                       | 4/3/23 2:21 PM  | 0      | mg/L  |
| APCO- BY-AP-MW-25H | TEMP      | Temperature                   | 4/3/23 2:21 PM  | 23.02  | C     |
| APCO- BY-AP-MW-25H | TURB      | Turbidity                     | 4/3/23 2:21 PM  | 3.98   | NTU   |
| APCO- BY-AP-MW-23H | COND      | Conductivity                  | 4/4/23 10:52 AM | 444.84 | uS/cm |

Plant Barry Ash Pond  
Field Parameter Summary

| WELL ID            | PARAMETER | DESCRIPTION                   | TIME OF READING | VALUE   | UNIT  |
|--------------------|-----------|-------------------------------|-----------------|---------|-------|
| APCO- BY-AP-MW-23H | DO        | DO                            | 4/4/23 10:52 AM | 0.04    | mg/L  |
| APCO- BY-AP-MW-23H | DTW       | Depth to Water Detail         | 4/4/23 10:52 AM | 3.74    | ft    |
| APCO- BY-AP-MW-23H | ORP       | Oxidation Reduction Potential | 4/4/23 10:52 AM | -74.75  | mv    |
| APCO- BY-AP-MW-23H | PH        | pH                            | 4/4/23 10:52 AM | 5.93    | SU    |
| APCO- BY-AP-MW-23H | TEMP      | Temperature                   | 4/4/23 10:52 AM | 20.08   | C     |
| APCO- BY-AP-MW-23H | TURB      | Turbidity                     | 4/4/23 10:52 AM | 5.56    | NTU   |
| APCO- BY-AP-MW-23H | COND      | Conductivity                  | 4/4/23 10:57 AM | 425     | uS/cm |
| APCO- BY-AP-MW-23H | DO        | DO                            | 4/4/23 10:57 AM | 0.02    | mg/L  |
| APCO- BY-AP-MW-23H | DTW       | Depth to Water Detail         | 4/4/23 10:57 AM | 3.74    | ft    |
| APCO- BY-AP-MW-23H | ORP       | Oxidation Reduction Potential | 4/4/23 10:57 AM | -73.13  | mv    |
| APCO- BY-AP-MW-23H | PH        | pH                            | 4/4/23 10:57 AM | 5.89    | SU    |
| APCO- BY-AP-MW-23H | TEMP      | Temperature                   | 4/4/23 10:57 AM | 20.08   | C     |
| APCO- BY-AP-MW-23H | TURB      | Turbidity                     | 4/4/23 10:57 AM | 5.4     | NTU   |
| APCO- BY-AP-MW-23H | COND      | Conductivity                  | 4/4/23 11:02 AM | 412.61  | uS/cm |
| APCO- BY-AP-MW-23H | DO        | DO                            | 4/4/23 11:02 AM | 0.01    | mg/L  |
| APCO- BY-AP-MW-23H | DTW       | Depth to Water Detail         | 4/4/23 11:02 AM | 3.74    | ft    |
| APCO- BY-AP-MW-23H | ORP       | Oxidation Reduction Potential | 4/4/23 11:02 AM | -73.38  | mv    |
| APCO- BY-AP-MW-23H | PH        | pH                            | 4/4/23 11:02 AM | 5.89    | SU    |
| APCO- BY-AP-MW-23H | TEMP      | Temperature                   | 4/4/23 11:02 AM | 20.1    | C     |
| APCO- BY-AP-MW-23H | TURB      | Turbidity                     | 4/4/23 11:02 AM | 4.28    | NTU   |
| APCO- BY-AP-MW-23H | COND      | Conductivity                  | 4/4/23 11:07 AM | 399.81  | uS/cm |
| APCO- BY-AP-MW-23H | DO        | DO                            | 4/4/23 11:07 AM | 0.01    | mg/L  |
| APCO- BY-AP-MW-23H | DTW       | Depth to Water Detail         | 4/4/23 11:07 AM | 3.74    | ft    |
| APCO- BY-AP-MW-23H | ORP       | Oxidation Reduction Potential | 4/4/23 11:07 AM | -74.49  | mv    |
| APCO- BY-AP-MW-23H | PH        | pH                            | 4/4/23 11:07 AM | 5.91    | SU    |
| APCO- BY-AP-MW-23H | TEMP      | Temperature                   | 4/4/23 11:07 AM | 20.11   | C     |
| APCO- BY-AP-MW-23H | TURB      | Turbidity                     | 4/4/23 11:07 AM | 4.61    | NTU   |
| APCO- BY-AP-MW-23H | COND      | Conductivity                  | 4/4/23 11:12 AM | 396.41  | uS/cm |
| APCO- BY-AP-MW-23H | DO        | DO                            | 4/4/23 11:12 AM | 0.01    | mg/L  |
| APCO- BY-AP-MW-23H | DTW       | Depth to Water Detail         | 4/4/23 11:12 AM | 3.74    | ft    |
| APCO- BY-AP-MW-23H | ORP       | Oxidation Reduction Potential | 4/4/23 11:12 AM | -75.8   | mv    |
| APCO- BY-AP-MW-23H | PH        | pH                            | 4/4/23 11:12 AM | 5.94    | SU    |
| APCO- BY-AP-MW-23H | SULFIDE   | Sulfide                       | 4/4/23 11:12 AM | 0       | mg/L  |
| APCO- BY-AP-MW-23H | TEMP      | Temperature                   | 4/4/23 11:12 AM | 20.14   | C     |
| APCO- BY-AP-MW-23H | TURB      | Turbidity                     | 4/4/23 11:12 AM | 3.24    | NTU   |
| APCO- BY-AP-MW-23V | COND      | Conductivity                  | 4/4/23 11:37 AM | 2496.96 | uS/cm |
| APCO- BY-AP-MW-23V | DO        | DO                            | 4/4/23 11:37 AM | 0.06    | mg/L  |
| APCO- BY-AP-MW-23V | DTW       | Depth to Water Detail         | 4/4/23 11:37 AM | 8.55    | ft    |
| APCO- BY-AP-MW-23V | ORP       | Oxidation Reduction Potential | 4/4/23 11:37 AM | -86.84  | mv    |
| APCO- BY-AP-MW-23V | PH        | pH                            | 4/4/23 11:37 AM | 6.72    | SU    |
| APCO- BY-AP-MW-23V | TEMP      | Temperature                   | 4/4/23 11:37 AM | 20.86   | C     |
| APCO- BY-AP-MW-23V | TURB      | Turbidity                     | 4/4/23 11:37 AM | 2.43    | NTU   |
| APCO- BY-AP-MW-23V | COND      | Conductivity                  | 4/4/23 11:42 AM | 2548.6  | uS/cm |
| APCO- BY-AP-MW-23V | DO        | DO                            | 4/4/23 11:42 AM | 0.06    | mg/L  |
| APCO- BY-AP-MW-23V | DTW       | Depth to Water Detail         | 4/4/23 11:42 AM | 8.55    | ft    |
| APCO- BY-AP-MW-23V | ORP       | Oxidation Reduction Potential | 4/4/23 11:42 AM | -89.39  | mv    |
| APCO- BY-AP-MW-23V | PH        | pH                            | 4/4/23 11:42 AM | 6.72    | SU    |
| APCO- BY-AP-MW-23V | TEMP      | Temperature                   | 4/4/23 11:42 AM | 20.84   | C     |
| APCO- BY-AP-MW-23V | TURB      | Turbidity                     | 4/4/23 11:42 AM | 2.32    | NTU   |
| APCO- BY-AP-MW-23V | COND      | Conductivity                  | 4/4/23 11:47 AM | 2570.39 | uS/cm |
| APCO- BY-AP-MW-23V | DO        | DO                            | 4/4/23 11:47 AM | 0.07    | mg/L  |
| APCO- BY-AP-MW-23V | DTW       | Depth to Water Detail         | 4/4/23 11:47 AM | 8.55    | ft    |
| APCO- BY-AP-MW-23V | ORP       | Oxidation Reduction Potential | 4/4/23 11:47 AM | -90.96  | mv    |
| APCO- BY-AP-MW-23V | PH        | pH                            | 4/4/23 11:47 AM | 6.73    | SU    |
| APCO- BY-AP-MW-23V | TEMP      | Temperature                   | 4/4/23 11:47 AM | 20.89   | C     |
| APCO- BY-AP-MW-23V | TURB      | Turbidity                     | 4/4/23 11:47 AM | 2.96    | NTU   |
| APCO- BY-AP-MW-23V | COND      | Conductivity                  | 4/4/23 11:52 AM | 2583.92 | uS/cm |
| APCO- BY-AP-MW-23V | DO        | DO                            | 4/4/23 11:52 AM | 0.08    | mg/L  |
| APCO- BY-AP-MW-23V | DTW       | Depth to Water Detail         | 4/4/23 11:52 AM | 8.55    | ft    |
| APCO- BY-AP-MW-23V | ORP       | Oxidation Reduction Potential | 4/4/23 11:52 AM | -91.76  | mv    |



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Field Parameter Summary

| WELL ID            | PARAMETER | DESCRIPTION                   | TIME OF READING | VALUE   | UNIT  |
|--------------------|-----------|-------------------------------|-----------------|---------|-------|
| APCO- BY-AP-MW-23V | PH        | pH                            | 4/4/23 11:52 AM | 6.73    | SU    |
| APCO- BY-AP-MW-23V | SULFIDE   | Sulfide                       | 4/4/23 11:52 AM | 0       | mg/L  |
| APCO- BY-AP-MW-23V | TEMP      | Temperature                   | 4/4/23 11:52 AM | 20.83   | C     |
| APCO- BY-AP-MW-23V | TURB      | Turbidity                     | 4/4/23 11:52 AM | 2.6     | NTU   |
| APCO- BY-AP-MW-17H | COND      | Conductivity                  | 4/4/23 1:19 PM  | 334.34  | uS/cm |
| APCO- BY-AP-MW-17H | DO        | DO                            | 4/4/23 1:19 PM  | 0.08    | mg/L  |
| APCO- BY-AP-MW-17H | DTW       | Depth to Water Detail         | 4/4/23 1:19 PM  | 13.08   | ft    |
| APCO- BY-AP-MW-17H | ORP       | Oxidation Reduction Potential | 4/4/23 1:19 PM  | -36.1   | mv    |
| APCO- BY-AP-MW-17H | PH        | pH                            | 4/4/23 1:19 PM  | 6.18    | SU    |
| APCO- BY-AP-MW-17H | TEMP      | Temperature                   | 4/4/23 1:19 PM  | 21.8    | C     |
| APCO- BY-AP-MW-17H | TURB      | Turbidity                     | 4/4/23 1:19 PM  | 15.4    | NTU   |
| APCO- BY-AP-MW-17H | COND      | Conductivity                  | 4/4/23 1:24 PM  | 331.8   | uS/cm |
| APCO- BY-AP-MW-17H | DO        | DO                            | 4/4/23 1:24 PM  | 0.07    | mg/L  |
| APCO- BY-AP-MW-17H | DTW       | Depth to Water Detail         | 4/4/23 1:24 PM  | 13.08   | ft    |
| APCO- BY-AP-MW-17H | ORP       | Oxidation Reduction Potential | 4/4/23 1:24 PM  | -40.76  | mv    |
| APCO- BY-AP-MW-17H | PH        | pH                            | 4/4/23 1:24 PM  | 6.19    | SU    |
| APCO- BY-AP-MW-17H | TEMP      | Temperature                   | 4/4/23 1:24 PM  | 21.63   | C     |
| APCO- BY-AP-MW-17H | TURB      | Turbidity                     | 4/4/23 1:24 PM  | 11.3    | NTU   |
| APCO- BY-AP-MW-17H | COND      | Conductivity                  | 4/4/23 1:29 PM  | 331.99  | uS/cm |
| APCO- BY-AP-MW-17H | DO        | DO                            | 4/4/23 1:29 PM  | 0.07    | mg/L  |
| APCO- BY-AP-MW-17H | DTW       | Depth to Water Detail         | 4/4/23 1:29 PM  | 13.08   | ft    |
| APCO- BY-AP-MW-17H | ORP       | Oxidation Reduction Potential | 4/4/23 1:29 PM  | -45.13  | mv    |
| APCO- BY-AP-MW-17H | PH        | pH                            | 4/4/23 1:29 PM  | 6.22    | SU    |
| APCO- BY-AP-MW-17H | TEMP      | Temperature                   | 4/4/23 1:29 PM  | 21.79   | C     |
| APCO- BY-AP-MW-17H | TURB      | Turbidity                     | 4/4/23 1:29 PM  | 9.9     | NTU   |
| APCO- BY-AP-MW-17H | COND      | Conductivity                  | 4/4/23 1:34 PM  | 331.33  | uS/cm |
| APCO- BY-AP-MW-17H | DO        | DO                            | 4/4/23 1:34 PM  | 0.09    | mg/L  |
| APCO- BY-AP-MW-17H | DTW       | Depth to Water Detail         | 4/4/23 1:34 PM  | 13.08   | ft    |
| APCO- BY-AP-MW-17H | ORP       | Oxidation Reduction Potential | 4/4/23 1:34 PM  | -48.7   | mv    |
| APCO- BY-AP-MW-17H | PH        | pH                            | 4/4/23 1:34 PM  | 6.25    | SU    |
| APCO- BY-AP-MW-17H | SULFIDE   | Sulfide                       | 4/4/23 1:34 PM  | 0       | mg/L  |
| APCO- BY-AP-MW-17H | TEMP      | Temperature                   | 4/4/23 1:34 PM  | 22.18   | C     |
| APCO- BY-AP-MW-17H | TURB      | Turbidity                     | 4/4/23 1:34 PM  | 8.7     | NTU   |
| APCO- BY-AP-MW-14V | COND      | Conductivity                  | 4/4/23 2:47 PM  | 1045.12 | uS/cm |
| APCO- BY-AP-MW-14V | DO        | DO                            | 4/4/23 2:47 PM  | 0.08    | mg/L  |
| APCO- BY-AP-MW-14V | DTW       | Depth to Water Detail         | 4/4/23 2:47 PM  | 18.48   | ft    |
| APCO- BY-AP-MW-14V | ORP       | Oxidation Reduction Potential | 4/4/23 2:47 PM  | -131.05 | mv    |
| APCO- BY-AP-MW-14V | PH        | pH                            | 4/4/23 2:47 PM  | 7.22    | SU    |
| APCO- BY-AP-MW-14V | TEMP      | Temperature                   | 4/4/23 2:47 PM  | 22.48   | C     |
| APCO- BY-AP-MW-14V | TURB      | Turbidity                     | 4/4/23 2:47 PM  | 5.07    | NTU   |
| APCO- BY-AP-MW-14V | COND      | Conductivity                  | 4/4/23 2:52 PM  | 936     | uS/cm |
| APCO- BY-AP-MW-14V | DO        | DO                            | 4/4/23 2:52 PM  | 0.06    | mg/L  |
| APCO- BY-AP-MW-14V | DTW       | Depth to Water Detail         | 4/4/23 2:52 PM  | 18.48   | ft    |
| APCO- BY-AP-MW-14V | ORP       | Oxidation Reduction Potential | 4/4/23 2:52 PM  | -118.96 | mv    |
| APCO- BY-AP-MW-14V | PH        | pH                            | 4/4/23 2:52 PM  | 6.89    | SU    |
| APCO- BY-AP-MW-14V | TEMP      | Temperature                   | 4/4/23 2:52 PM  | 22.29   | C     |
| APCO- BY-AP-MW-14V | TURB      | Turbidity                     | 4/4/23 2:52 PM  | 3.87    | NTU   |
| APCO- BY-AP-MW-14V | COND      | Conductivity                  | 4/4/23 2:57 PM  | 918.2   | uS/cm |
| APCO- BY-AP-MW-14V | DO        | DO                            | 4/4/23 2:57 PM  | 0.06    | mg/L  |
| APCO- BY-AP-MW-14V | DTW       | Depth to Water Detail         | 4/4/23 2:57 PM  | 18.48   | ft    |
| APCO- BY-AP-MW-14V | ORP       | Oxidation Reduction Potential | 4/4/23 2:57 PM  | -116.26 | mv    |
| APCO- BY-AP-MW-14V | PH        | pH                            | 4/4/23 2:57 PM  | 6.82    | SU    |
| APCO- BY-AP-MW-14V | TEMP      | Temperature                   | 4/4/23 2:57 PM  | 22.24   | C     |
| APCO- BY-AP-MW-14V | TURB      | Turbidity                     | 4/4/23 2:57 PM  | 3.54    | NTU   |
| APCO- BY-AP-MW-14V | COND      | Conductivity                  | 4/4/23 3:02 PM  | 912.46  | uS/cm |
| APCO- BY-AP-MW-14V | DO        | DO                            | 4/4/23 3:02 PM  | 0.07    | mg/L  |
| APCO- BY-AP-MW-14V | DTW       | Depth to Water Detail         | 4/4/23 3:02 PM  | 18.48   | ft    |
| APCO- BY-AP-MW-14V | ORP       | Oxidation Reduction Potential | 4/4/23 3:02 PM  | -115.9  | mv    |
| APCO- BY-AP-MW-14V | PH        | pH                            | 4/4/23 3:02 PM  | 6.8     | SU    |
| APCO- BY-AP-MW-14V | SULFIDE   | Sulfide                       | 4/4/23 3:02 PM  | 0       | mg/L  |

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| WELL ID            | PARAMETER | DESCRIPTION                   | TIME OF READING | VALUE   | UNIT  |
|--------------------|-----------|-------------------------------|-----------------|---------|-------|
| APCO- BY-AP-MW-14V | TEMP      | Temperature                   | 4/4/23 3:02 PM  | 22.32   | C     |
| APCO- BY-AP-MW-14V | TURB      | Turbidity                     | 4/4/23 3:02 PM  | 3.19    | NTU   |
| APCO- BY-AP-MW-16  | COND      | Conductivity                  | 4/5/23 9:27 AM  | 564.24  | uS/cm |
| APCO- BY-AP-MW-16  | DO        | DO                            | 4/5/23 9:27 AM  | 0.06    | mg/L  |
| APCO- BY-AP-MW-16  | DTW       | Depth to Water Detail         | 4/5/23 9:27 AM  | 18.32   | ft    |
| APCO- BY-AP-MW-16  | ORP       | Oxidation Reduction Potential | 4/5/23 9:27 AM  | -33.87  | mv    |
| APCO- BY-AP-MW-16  | PH        | pH                            | 4/5/23 9:27 AM  | 5.82    | SU    |
| APCO- BY-AP-MW-16  | TEMP      | Temperature                   | 4/5/23 9:27 AM  | 21.96   | C     |
| APCO- BY-AP-MW-16  | TURB      | Turbidity                     | 4/5/23 9:27 AM  | 4.47    | NTU   |
| APCO- BY-AP-MW-16  | COND      | Conductivity                  | 4/5/23 9:32 AM  | 564.39  | uS/cm |
| APCO- BY-AP-MW-16  | DO        | DO                            | 4/5/23 9:32 AM  | 0.06    | mg/L  |
| APCO- BY-AP-MW-16  | DTW       | Depth to Water Detail         | 4/5/23 9:32 AM  | 18.32   | ft    |
| APCO- BY-AP-MW-16  | ORP       | Oxidation Reduction Potential | 4/5/23 9:32 AM  | -32.77  | mv    |
| APCO- BY-AP-MW-16  | PH        | pH                            | 4/5/23 9:32 AM  | 5.84    | SU    |
| APCO- BY-AP-MW-16  | TEMP      | Temperature                   | 4/5/23 9:32 AM  | 21.91   | C     |
| APCO- BY-AP-MW-16  | TURB      | Turbidity                     | 4/5/23 9:32 AM  | 4.57    | NTU   |
| APCO- BY-AP-MW-16  | COND      | Conductivity                  | 4/5/23 9:37 AM  | 564.62  | uS/cm |
| APCO- BY-AP-MW-16  | DO        | DO                            | 4/5/23 9:37 AM  | 0.06    | mg/L  |
| APCO- BY-AP-MW-16  | DTW       | Depth to Water Detail         | 4/5/23 9:37 AM  | 18.32   | ft    |
| APCO- BY-AP-MW-16  | ORP       | Oxidation Reduction Potential | 4/5/23 9:37 AM  | -32.52  | mv    |
| APCO- BY-AP-MW-16  | PH        | pH                            | 4/5/23 9:37 AM  | 5.85    | SU    |
| APCO- BY-AP-MW-16  | TEMP      | Temperature                   | 4/5/23 9:37 AM  | 21.86   | C     |
| APCO- BY-AP-MW-16  | TURB      | Turbidity                     | 4/5/23 9:37 AM  | 3.9     | NTU   |
| APCO- BY-AP-MW-16  | COND      | Conductivity                  | 4/5/23 9:42 AM  | 562.14  | uS/cm |
| APCO- BY-AP-MW-16  | DO        | DO                            | 4/5/23 9:42 AM  | 0.06    | mg/L  |
| APCO- BY-AP-MW-16  | DTW       | Depth to Water Detail         | 4/5/23 9:42 AM  | 18.32   | ft    |
| APCO- BY-AP-MW-16  | ORP       | Oxidation Reduction Potential | 4/5/23 9:42 AM  | -31.36  | mv    |
| APCO- BY-AP-MW-16  | PH        | pH                            | 4/5/23 9:42 AM  | 5.83    | SU    |
| APCO- BY-AP-MW-16  | TEMP      | Temperature                   | 4/5/23 9:42 AM  | 21.91   | C     |
| APCO- BY-AP-MW-16  | TURB      | Turbidity                     | 4/5/23 9:42 AM  | 4.09    | NTU   |
| APCO- BY-AP-MW-17V | COND      | Conductivity                  | 4/4/23 12:32 PM | 5078.7  | uS/cm |
| APCO- BY-AP-MW-17V | DO        | DO                            | 4/4/23 12:32 PM | 0.19    | mg/L  |
| APCO- BY-AP-MW-17V | DTW       | Depth to Water Detail         | 4/4/23 12:32 PM | 13.63   | ft    |
| APCO- BY-AP-MW-17V | ORP       | Oxidation Reduction Potential | 4/4/23 12:32 PM | 24      | mv    |
| APCO- BY-AP-MW-17V | PH        | pH                            | 4/4/23 12:32 PM | 6.47    | SU    |
| APCO- BY-AP-MW-17V | TEMP      | Temperature                   | 4/4/23 12:32 PM | 26.67   | C     |
| APCO- BY-AP-MW-17V | TURB      | Turbidity                     | 4/4/23 12:32 PM | 3.94    | NTU   |
| APCO- BY-AP-MW-17V | COND      | Conductivity                  | 4/4/23 12:37 PM | 5020.39 | uS/cm |
| APCO- BY-AP-MW-17V | DO        | DO                            | 4/4/23 12:37 PM | 0.11    | mg/L  |
| APCO- BY-AP-MW-17V | DTW       | Depth to Water Detail         | 4/4/23 12:37 PM | 13.63   | ft    |
| APCO- BY-AP-MW-17V | ORP       | Oxidation Reduction Potential | 4/4/23 12:37 PM | 31.63   | mv    |
| APCO- BY-AP-MW-17V | PH        | pH                            | 4/4/23 12:37 PM | 6.47    | SU    |
| APCO- BY-AP-MW-17V | TEMP      | Temperature                   | 4/4/23 12:37 PM | 22.18   | C     |
| APCO- BY-AP-MW-17V | TURB      | Turbidity                     | 4/4/23 12:37 PM | 3.9     | NTU   |
| APCO- BY-AP-MW-17V | COND      | Conductivity                  | 4/4/23 12:42 PM | 5001.28 | uS/cm |
| APCO- BY-AP-MW-17V | DO        | DO                            | 4/4/23 12:42 PM | 0.13    | mg/L  |
| APCO- BY-AP-MW-17V | DTW       | Depth to Water Detail         | 4/4/23 12:42 PM | 13.63   | ft    |
| APCO- BY-AP-MW-17V | ORP       | Oxidation Reduction Potential | 4/4/23 12:42 PM | 33.71   | mv    |
| APCO- BY-AP-MW-17V | PH        | pH                            | 4/4/23 12:42 PM | 6.47    | SU    |
| APCO- BY-AP-MW-17V | TEMP      | Temperature                   | 4/4/23 12:42 PM | 21.85   | C     |
| APCO- BY-AP-MW-17V | TURB      | Turbidity                     | 4/4/23 12:42 PM | 3.11    | NTU   |
| APCO- BY-AP-MW-17V | COND      | Conductivity                  | 4/4/23 12:47 PM | 5004.48 | uS/cm |
| APCO- BY-AP-MW-17V | DO        | DO                            | 4/4/23 12:47 PM | 0.13    | mg/L  |
| APCO- BY-AP-MW-17V | DTW       | Depth to Water Detail         | 4/4/23 12:47 PM | 13.63   | ft    |
| APCO- BY-AP-MW-17V | ORP       | Oxidation Reduction Potential | 4/4/23 12:47 PM | 35.18   | mv    |
| APCO- BY-AP-MW-17V | PH        | pH                            | 4/4/23 12:47 PM | 6.48    | SU    |
| APCO- BY-AP-MW-17V | SULFIDE   | Sulfide                       | 4/4/23 12:47 PM | 0       | mg/L  |
| APCO- BY-AP-MW-17V | TEMP      | Temperature                   | 4/4/23 12:47 PM | 22.09   | C     |
| APCO- BY-AP-MW-17V | TURB      | Turbidity                     | 4/4/23 12:47 PM | 3.38    | NTU   |
| APCO- BY-AP-MW-25V | COND      | Conductivity                  | 4/3/23 3:00 PM  | 32.46   | uS/cm |

Plant Barry Ash Pond  
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| WELL ID            | PARAMETER | DESCRIPTION                   | TIME OF READING | VALUE  | UNIT  |
|--------------------|-----------|-------------------------------|-----------------|--------|-------|
| APCO- BY-AP-MW-25V | DO        | DO                            | 4/3/23 3:00 PM  | 3.39   | mg/L  |
| APCO- BY-AP-MW-25V | DTW       | Depth to Water Detail         | 4/3/23 3:00 PM  | 17.53  | ft    |
| APCO- BY-AP-MW-25V | ORP       | Oxidation Reduction Potential | 4/3/23 3:00 PM  | 215.79 | mv    |
| APCO- BY-AP-MW-25V | PH        | pH                            | 4/3/23 3:00 PM  | 4.88   | SU    |
| APCO- BY-AP-MW-25V | TEMP      | Temperature                   | 4/3/23 3:00 PM  | 23.28  | C     |
| APCO- BY-AP-MW-25V | TURB      | Turbidity                     | 4/3/23 3:00 PM  | 3.92   | NTU   |
| APCO- BY-AP-MW-25V | COND      | Conductivity                  | 4/3/23 3:05 PM  | 32.26  | uS/cm |
| APCO- BY-AP-MW-25V | DO        | DO                            | 4/3/23 3:05 PM  | 3.39   | mg/L  |
| APCO- BY-AP-MW-25V | DTW       | Depth to Water Detail         | 4/3/23 3:05 PM  | 17.53  | ft    |
| APCO- BY-AP-MW-25V | ORP       | Oxidation Reduction Potential | 4/3/23 3:05 PM  | 224.96 | mv    |
| APCO- BY-AP-MW-25V | PH        | pH                            | 4/3/23 3:05 PM  | 4.81   | SU    |
| APCO- BY-AP-MW-25V | TEMP      | Temperature                   | 4/3/23 3:05 PM  | 23.48  | C     |
| APCO- BY-AP-MW-25V | TURB      | Turbidity                     | 4/3/23 3:05 PM  | 3.89   | NTU   |
| APCO- BY-AP-MW-25V | COND      | Conductivity                  | 4/3/23 3:10 PM  | 32.06  | uS/cm |
| APCO- BY-AP-MW-25V | DO        | DO                            | 4/3/23 3:10 PM  | 3.42   | mg/L  |
| APCO- BY-AP-MW-25V | DTW       | Depth to Water Detail         | 4/3/23 3:10 PM  | 17.53  | ft    |
| APCO- BY-AP-MW-25V | ORP       | Oxidation Reduction Potential | 4/3/23 3:10 PM  | 233.41 | mv    |
| APCO- BY-AP-MW-25V | PH        | pH                            | 4/3/23 3:10 PM  | 4.77   | SU    |
| APCO- BY-AP-MW-25V | TEMP      | Temperature                   | 4/3/23 3:10 PM  | 23.24  | C     |
| APCO- BY-AP-MW-25V | TURB      | Turbidity                     | 4/3/23 3:10 PM  | 3.74   | NTU   |
| APCO- BY-AP-MW-25V | COND      | Conductivity                  | 4/3/23 3:15 PM  | 31.89  | uS/cm |
| APCO- BY-AP-MW-25V | DO        | DO                            | 4/3/23 3:15 PM  | 3.45   | mg/L  |
| APCO- BY-AP-MW-25V | DTW       | Depth to Water Detail         | 4/3/23 3:15 PM  | 17.53  | ft    |
| APCO- BY-AP-MW-25V | ORP       | Oxidation Reduction Potential | 4/3/23 3:15 PM  | 233.01 | mv    |
| APCO- BY-AP-MW-25V | PH        | pH                            | 4/3/23 3:15 PM  | 4.8    | SU    |
| APCO- BY-AP-MW-25V | SULFIDE   | Sulfide                       | 4/3/23 3:15 PM  | 0      | mg/L  |
| APCO- BY-AP-MW-25V | TEMP      | Temperature                   | 4/3/23 3:15 PM  | 23.31  | C     |
| APCO- BY-AP-MW-25V | TURB      | Turbidity                     | 4/3/23 3:15 PM  | 3.94   | NTU   |
| APCO- BY-AP-MW-1V  | COND      | Conductivity                  | 4/4/23 2:53 PM  | 411.97 | uS/cm |
| APCO- BY-AP-MW-1V  | DO        | DO                            | 4/4/23 2:53 PM  | 0.16   | mg/L  |
| APCO- BY-AP-MW-1V  | DTW       | Depth to Water Detail         | 4/4/23 2:53 PM  | 19.36  | ft    |
| APCO- BY-AP-MW-1V  | ORP       | Oxidation Reduction Potential | 4/4/23 2:53 PM  | 110.04 | mv    |
| APCO- BY-AP-MW-1V  | PH        | pH                            | 4/4/23 2:53 PM  | 5.79   | SU    |
| APCO- BY-AP-MW-1V  | TEMP      | Temperature                   | 4/4/23 2:53 PM  | 22.71  | C     |
| APCO- BY-AP-MW-1V  | TURB      | Turbidity                     | 4/4/23 2:53 PM  | 1.47   | NTU   |
| APCO- BY-AP-MW-1V  | COND      | Conductivity                  | 4/4/23 2:58 PM  | 411.87 | uS/cm |
| APCO- BY-AP-MW-1V  | DO        | DO                            | 4/4/23 2:58 PM  | 0.13   | mg/L  |
| APCO- BY-AP-MW-1V  | DTW       | Depth to Water Detail         | 4/4/23 2:58 PM  | 19.36  | ft    |
| APCO- BY-AP-MW-1V  | ORP       | Oxidation Reduction Potential | 4/4/23 2:58 PM  | 117.07 | mv    |
| APCO- BY-AP-MW-1V  | PH        | pH                            | 4/4/23 2:58 PM  | 5.74   | SU    |
| APCO- BY-AP-MW-1V  | TEMP      | Temperature                   | 4/4/23 2:58 PM  | 22.7   | C     |
| APCO- BY-AP-MW-1V  | TURB      | Turbidity                     | 4/4/23 2:58 PM  | 1.66   | NTU   |
| APCO- BY-AP-MW-1V  | COND      | Conductivity                  | 4/4/23 3:03 PM  | 410.08 | uS/cm |
| APCO- BY-AP-MW-1V  | DO        | DO                            | 4/4/23 3:03 PM  | 0.12   | mg/L  |
| APCO- BY-AP-MW-1V  | DTW       | Depth to Water Detail         | 4/4/23 3:03 PM  | 19.36  | ft    |
| APCO- BY-AP-MW-1V  | ORP       | Oxidation Reduction Potential | 4/4/23 3:03 PM  | 120.58 | mv    |
| APCO- BY-AP-MW-1V  | PH        | pH                            | 4/4/23 3:03 PM  | 5.71   | SU    |
| APCO- BY-AP-MW-1V  | TEMP      | Temperature                   | 4/4/23 3:03 PM  | 22.64  | C     |
| APCO- BY-AP-MW-1V  | TURB      | Turbidity                     | 4/4/23 3:03 PM  | 1.43   | NTU   |
| APCO- BY-AP-MW-1V  | COND      | Conductivity                  | 4/4/23 3:08 PM  | 410.3  | uS/cm |
| APCO- BY-AP-MW-1V  | DO        | DO                            | 4/4/23 3:08 PM  | 0.11   | mg/L  |
| APCO- BY-AP-MW-1V  | DTW       | Depth to Water Detail         | 4/4/23 3:08 PM  | 19.36  | ft    |
| APCO- BY-AP-MW-1V  | ORP       | Oxidation Reduction Potential | 4/4/23 3:08 PM  | 122.38 | mv    |
| APCO- BY-AP-MW-1V  | PH        | pH                            | 4/4/23 3:08 PM  | 5.69   | SU    |
| APCO- BY-AP-MW-1V  | SULFIDE   | Sulfide                       | 4/4/23 3:08 PM  | 0      | mg/L  |
| APCO- BY-AP-MW-1V  | TEMP      | Temperature                   | 4/4/23 3:08 PM  | 22.74  | C     |
| APCO- BY-AP-MW-1V  | TURB      | Turbidity                     | 4/4/23 3:08 PM  | 1.4    | NTU   |
| APCO- BY-AP-MW-3   | COND      | Conductivity                  | 4/4/23 1:31 PM  | 94.09  | uS/cm |
| APCO- BY-AP-MW-3   | DO        | DO                            | 4/4/23 1:31 PM  | 0.27   | mg/L  |
| APCO- BY-AP-MW-3   | DTW       | Depth to Water Detail         | 4/4/23 1:31 PM  | 19.35  | ft    |

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| WELL ID          | PARAMETER | DESCRIPTION                   | TIME OF READING | VALUE  | UNIT  |
|------------------|-----------|-------------------------------|-----------------|--------|-------|
| APCO- BY-AP-MW-3 | ORP       | Oxidation Reduction Potential | 4/4/23 1:31 PM  | 105.95 | mv    |
| APCO- BY-AP-MW-3 | PH        | pH                            | 4/4/23 1:31 PM  | 5.48   | SU    |
| APCO- BY-AP-MW-3 | TEMP      | Temperature                   | 4/4/23 1:31 PM  | 22.25  | C     |
| APCO- BY-AP-MW-3 | TURB      | Turbidity                     | 4/4/23 1:31 PM  | 2.81   | NTU   |
| APCO- BY-AP-MW-3 | COND      | Conductivity                  | 4/4/23 1:36 PM  | 80.8   | uS/cm |
| APCO- BY-AP-MW-3 | DO        | DO                            | 4/4/23 1:36 PM  | 0.49   | mg/L  |
| APCO- BY-AP-MW-3 | DTW       | Depth to Water Detail         | 4/4/23 1:36 PM  | 19.35  | ft    |
| APCO- BY-AP-MW-3 | ORP       | Oxidation Reduction Potential | 4/4/23 1:36 PM  | 114.54 | mv    |
| APCO- BY-AP-MW-3 | PH        | pH                            | 4/4/23 1:36 PM  | 5.41   | SU    |
| APCO- BY-AP-MW-3 | TEMP      | Temperature                   | 4/4/23 1:36 PM  | 22.19  | C     |
| APCO- BY-AP-MW-3 | TURB      | Turbidity                     | 4/4/23 1:36 PM  | 2.43   | NTU   |
| APCO- BY-AP-MW-3 | COND      | Conductivity                  | 4/4/23 1:41 PM  | 72.96  | uS/cm |
| APCO- BY-AP-MW-3 | DO        | DO                            | 4/4/23 1:41 PM  | 0.66   | mg/L  |
| APCO- BY-AP-MW-3 | DTW       | Depth to Water Detail         | 4/4/23 1:41 PM  | 19.35  | ft    |
| APCO- BY-AP-MW-3 | ORP       | Oxidation Reduction Potential | 4/4/23 1:41 PM  | 121.39 | mv    |
| APCO- BY-AP-MW-3 | PH        | pH                            | 4/4/23 1:41 PM  | 5.35   | SU    |
| APCO- BY-AP-MW-3 | TEMP      | Temperature                   | 4/4/23 1:41 PM  | 22.15  | C     |
| APCO- BY-AP-MW-3 | TURB      | Turbidity                     | 4/4/23 1:41 PM  | 2.14   | NTU   |
| APCO- BY-AP-MW-3 | COND      | Conductivity                  | 4/4/23 1:46 PM  | 68.56  | uS/cm |
| APCO- BY-AP-MW-3 | DO        | DO                            | 4/4/23 1:46 PM  | 0.77   | mg/L  |
| APCO- BY-AP-MW-3 | DTW       | Depth to Water Detail         | 4/4/23 1:46 PM  | 19.35  | ft    |
| APCO- BY-AP-MW-3 | ORP       | Oxidation Reduction Potential | 4/4/23 1:46 PM  | 125.94 | mv    |
| APCO- BY-AP-MW-3 | PH        | pH                            | 4/4/23 1:46 PM  | 5.32   | SU    |
| APCO- BY-AP-MW-3 | TEMP      | Temperature                   | 4/4/23 1:46 PM  | 22.07  | C     |
| APCO- BY-AP-MW-3 | TURB      | Turbidity                     | 4/4/23 1:46 PM  | 2.1    | NTU   |
| APCO- BY-AP-MW-3 | COND      | Conductivity                  | 4/4/23 1:51 PM  | 65.42  | uS/cm |
| APCO- BY-AP-MW-3 | DO        | DO                            | 4/4/23 1:51 PM  | 0.85   | mg/L  |
| APCO- BY-AP-MW-3 | DTW       | Depth to Water Detail         | 4/4/23 1:51 PM  | 19.35  | ft    |
| APCO- BY-AP-MW-3 | ORP       | Oxidation Reduction Potential | 4/4/23 1:51 PM  | 129.5  | mv    |
| APCO- BY-AP-MW-3 | PH        | pH                            | 4/4/23 1:51 PM  | 5.3    | SU    |
| APCO- BY-AP-MW-3 | TEMP      | Temperature                   | 4/4/23 1:51 PM  | 22.09  | C     |
| APCO- BY-AP-MW-3 | TURB      | Turbidity                     | 4/4/23 1:51 PM  | 1.82   | NTU   |
| APCO- BY-AP-MW-3 | COND      | Conductivity                  | 4/4/23 1:56 PM  | 63.84  | uS/cm |
| APCO- BY-AP-MW-3 | DO        | DO                            | 4/4/23 1:56 PM  | 0.9    | mg/L  |
| APCO- BY-AP-MW-3 | DTW       | Depth to Water Detail         | 4/4/23 1:56 PM  | 19.35  | ft    |
| APCO- BY-AP-MW-3 | ORP       | Oxidation Reduction Potential | 4/4/23 1:56 PM  | 130.7  | mv    |
| APCO- BY-AP-MW-3 | PH        | pH                            | 4/4/23 1:56 PM  | 5.31   | SU    |
| APCO- BY-AP-MW-3 | TEMP      | Temperature                   | 4/4/23 1:56 PM  | 21.92  | C     |
| APCO- BY-AP-MW-3 | TURB      | Turbidity                     | 4/4/23 1:56 PM  | 1.8    | NTU   |
| APCO- BY-AP-MW-3 | COND      | Conductivity                  | 4/4/23 2:01 PM  | 62.21  | uS/cm |
| APCO- BY-AP-MW-3 | DO        | DO                            | 4/4/23 2:01 PM  | 0.94   | mg/L  |
| APCO- BY-AP-MW-3 | DTW       | Depth to Water Detail         | 4/4/23 2:01 PM  | 19.35  | ft    |
| APCO- BY-AP-MW-3 | ORP       | Oxidation Reduction Potential | 4/4/23 2:01 PM  | 132.67 | mv    |
| APCO- BY-AP-MW-3 | PH        | pH                            | 4/4/23 2:01 PM  | 5.31   | SU    |
| APCO- BY-AP-MW-3 | TEMP      | Temperature                   | 4/4/23 2:01 PM  | 21.97  | C     |
| APCO- BY-AP-MW-3 | TURB      | Turbidity                     | 4/4/23 2:01 PM  | 1.85   | NTU   |
| APCO- BY-AP-MW-3 | COND      | Conductivity                  | 4/4/23 2:06 PM  | 60.54  | uS/cm |
| APCO- BY-AP-MW-3 | DO        | DO                            | 4/4/23 2:06 PM  | 0.98   | mg/L  |
| APCO- BY-AP-MW-3 | DTW       | Depth to Water Detail         | 4/4/23 2:06 PM  | 19.35  | ft    |
| APCO- BY-AP-MW-3 | ORP       | Oxidation Reduction Potential | 4/4/23 2:06 PM  | 135.13 | mv    |
| APCO- BY-AP-MW-3 | PH        | pH                            | 4/4/23 2:06 PM  | 5.31   | SU    |
| APCO- BY-AP-MW-3 | TEMP      | Temperature                   | 4/4/23 2:06 PM  | 21.99  | C     |
| APCO- BY-AP-MW-3 | TURB      | Turbidity                     | 4/4/23 2:06 PM  | 1.65   | NTU   |
| APCO- BY-AP-MW-3 | COND      | Conductivity                  | 4/4/23 2:11 PM  | 59.36  | uS/cm |
| APCO- BY-AP-MW-3 | DO        | DO                            | 4/4/23 2:11 PM  | 1.02   | mg/L  |
| APCO- BY-AP-MW-3 | DTW       | Depth to Water Detail         | 4/4/23 2:11 PM  | 19.35  | ft    |
| APCO- BY-AP-MW-3 | ORP       | Oxidation Reduction Potential | 4/4/23 2:11 PM  | 137.72 | mv    |
| APCO- BY-AP-MW-3 | PH        | pH                            | 4/4/23 2:11 PM  | 5.31   | SU    |
| APCO- BY-AP-MW-3 | SULFIDE   | Sulfide                       | 4/4/23 2:11 PM  | 0      | mg/L  |
| APCO- BY-AP-MW-3 | TEMP      | Temperature                   | 4/4/23 2:11 PM  | 22.13  | C     |

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| WELL ID           | PARAMETER | DESCRIPTION                   | TIME OF READING | VALUE  | UNIT  |
|-------------------|-----------|-------------------------------|-----------------|--------|-------|
| APCO- BY-AP-MW-3  | TURB      | Turbidity                     | 4/4/23 2:11 PM  | 1.69   | NTU   |
| APCO- BY-AP-MW-4  | COND      | Conductivity                  | 4/4/23 12:43 PM | 122.16 | uS/cm |
| APCO- BY-AP-MW-4  | DO        | DO                            | 4/4/23 12:43 PM | 0.18   | mg/L  |
| APCO- BY-AP-MW-4  | DTW       | Depth to Water Detail         | 4/4/23 12:43 PM | 20.02  | ft    |
| APCO- BY-AP-MW-4  | ORP       | Oxidation Reduction Potential | 4/4/23 12:43 PM | 282.61 | mv    |
| APCO- BY-AP-MW-4  | PH        | pH                            | 4/4/23 12:43 PM | 4.7    | SU    |
| APCO- BY-AP-MW-4  | TEMP      | Temperature                   | 4/4/23 12:43 PM | 22.5   | C     |
| APCO- BY-AP-MW-4  | TURB      | Turbidity                     | 4/4/23 12:43 PM | 3.24   | NTU   |
| APCO- BY-AP-MW-4  | COND      | Conductivity                  | 4/4/23 12:48 PM | 121.9  | uS/cm |
| APCO- BY-AP-MW-4  | DO        | DO                            | 4/4/23 12:48 PM | 0.17   | mg/L  |
| APCO- BY-AP-MW-4  | DTW       | Depth to Water Detail         | 4/4/23 12:48 PM | 20.02  | ft    |
| APCO- BY-AP-MW-4  | ORP       | Oxidation Reduction Potential | 4/4/23 12:48 PM | 310.49 | mv    |
| APCO- BY-AP-MW-4  | PH        | pH                            | 4/4/23 12:48 PM | 4.63   | SU    |
| APCO- BY-AP-MW-4  | TEMP      | Temperature                   | 4/4/23 12:48 PM | 22.72  | C     |
| APCO- BY-AP-MW-4  | TURB      | Turbidity                     | 4/4/23 12:48 PM | 3      | NTU   |
| APCO- BY-AP-MW-4  | COND      | Conductivity                  | 4/4/23 12:53 PM | 121.7  | uS/cm |
| APCO- BY-AP-MW-4  | DO        | DO                            | 4/4/23 12:53 PM | 0.16   | mg/L  |
| APCO- BY-AP-MW-4  | DTW       | Depth to Water Detail         | 4/4/23 12:53 PM | 20.02  | ft    |
| APCO- BY-AP-MW-4  | ORP       | Oxidation Reduction Potential | 4/4/23 12:53 PM | 328.01 | mv    |
| APCO- BY-AP-MW-4  | PH        | pH                            | 4/4/23 12:53 PM | 4.57   | SU    |
| APCO- BY-AP-MW-4  | TEMP      | Temperature                   | 4/4/23 12:53 PM | 22.58  | C     |
| APCO- BY-AP-MW-4  | TURB      | Turbidity                     | 4/4/23 12:53 PM | 2.87   | NTU   |
| APCO- BY-AP-MW-4  | COND      | Conductivity                  | 4/4/23 12:58 PM | 121.44 | uS/cm |
| APCO- BY-AP-MW-4  | DO        | DO                            | 4/4/23 12:58 PM | 0.17   | mg/L  |
| APCO- BY-AP-MW-4  | DTW       | Depth to Water Detail         | 4/4/23 12:58 PM | 20.02  | ft    |
| APCO- BY-AP-MW-4  | ORP       | Oxidation Reduction Potential | 4/4/23 12:58 PM | 339.03 | mv    |
| APCO- BY-AP-MW-4  | PH        | pH                            | 4/4/23 12:58 PM | 4.55   | SU    |
| APCO- BY-AP-MW-4  | SULFIDE   | Sulfide                       | 4/4/23 12:58 PM | 0      | mg/L  |
| APCO- BY-AP-MW-4  | TEMP      | Temperature                   | 4/4/23 12:58 PM | 22.88  | C     |
| APCO- BY-AP-MW-4  | TURB      | Turbidity                     | 4/4/23 12:58 PM | 3.02   | NTU   |
| APCO- BY-AP-MW-5  | COND      | Conductivity                  | 4/4/23 11:44 AM | 258.84 | uS/cm |
| APCO- BY-AP-MW-5  | DO        | DO                            | 4/4/23 11:44 AM | 0.13   | mg/L  |
| APCO- BY-AP-MW-5  | DTW       | Depth to Water Detail         | 4/4/23 11:44 AM | 22.2   | ft    |
| APCO- BY-AP-MW-5  | ORP       | Oxidation Reduction Potential | 4/4/23 11:44 AM | -18.33 | mv    |
| APCO- BY-AP-MW-5  | PH        | pH                            | 4/4/23 11:44 AM | 5.97   | SU    |
| APCO- BY-AP-MW-5  | TEMP      | Temperature                   | 4/4/23 11:44 AM | 22.5   | C     |
| APCO- BY-AP-MW-5  | TURB      | Turbidity                     | 4/4/23 11:44 AM | 1.56   | NTU   |
| APCO- BY-AP-MW-5  | COND      | Conductivity                  | 4/4/23 11:49 AM | 261.63 | uS/cm |
| APCO- BY-AP-MW-5  | DO        | DO                            | 4/4/23 11:49 AM | 0.12   | mg/L  |
| APCO- BY-AP-MW-5  | DTW       | Depth to Water Detail         | 4/4/23 11:49 AM | 22.2   | ft    |
| APCO- BY-AP-MW-5  | ORP       | Oxidation Reduction Potential | 4/4/23 11:49 AM | -15.88 | mv    |
| APCO- BY-AP-MW-5  | PH        | pH                            | 4/4/23 11:49 AM | 5.89   | SU    |
| APCO- BY-AP-MW-5  | TEMP      | Temperature                   | 4/4/23 11:49 AM | 22.59  | C     |
| APCO- BY-AP-MW-5  | TURB      | Turbidity                     | 4/4/23 11:49 AM | 1.35   | NTU   |
| APCO- BY-AP-MW-5  | COND      | Conductivity                  | 4/4/23 11:54 AM | 261.6  | uS/cm |
| APCO- BY-AP-MW-5  | DO        | DO                            | 4/4/23 11:54 AM | 0.12   | mg/L  |
| APCO- BY-AP-MW-5  | DTW       | Depth to Water Detail         | 4/4/23 11:54 AM | 22.2   | ft    |
| APCO- BY-AP-MW-5  | ORP       | Oxidation Reduction Potential | 4/4/23 11:54 AM | -14.85 | mv    |
| APCO- BY-AP-MW-5  | PH        | pH                            | 4/4/23 11:54 AM | 5.85   | SU    |
| APCO- BY-AP-MW-5  | TEMP      | Temperature                   | 4/4/23 11:54 AM | 22.73  | C     |
| APCO- BY-AP-MW-5  | TURB      | Turbidity                     | 4/4/23 11:54 AM | 1.39   | NTU   |
| APCO- BY-AP-MW-5  | COND      | Conductivity                  | 4/4/23 11:59 AM | 259.08 | uS/cm |
| APCO- BY-AP-MW-5  | DO        | DO                            | 4/4/23 11:59 AM | 0.12   | mg/L  |
| APCO- BY-AP-MW-5  | DTW       | Depth to Water Detail         | 4/4/23 11:59 AM | 22.2   | ft    |
| APCO- BY-AP-MW-5  | ORP       | Oxidation Reduction Potential | 4/4/23 11:59 AM | -14.73 | mv    |
| APCO- BY-AP-MW-5  | PH        | pH                            | 4/4/23 11:59 AM | 5.84   | SU    |
| APCO- BY-AP-MW-5  | SULFIDE   | Sulfide                       | 4/4/23 11:59 AM | 0      | mg/L  |
| APCO- BY-AP-MW-5  | TEMP      | Temperature                   | 4/4/23 11:59 AM | 22.61  | C     |
| APCO- BY-AP-MW-5  | TURB      | Turbidity                     | 4/4/23 11:59 AM | 1.48   | NTU   |
| APCO- BY-AP-MW-5V | COND      | Conductivity                  | 4/4/23 10:53 AM | 252.88 | uS/cm |

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| WELL ID           | PARAMETER | DESCRIPTION                   | TIME OF READING | VALUE   | UNIT  |
|-------------------|-----------|-------------------------------|-----------------|---------|-------|
| APCO- BY-AP-MW-5V | DO        | DO                            | 4/4/23 10:53 AM | 0.02    | mg/L  |
| APCO- BY-AP-MW-5V | DTW       | Depth to Water Detail         | 4/4/23 10:53 AM | 22.18   | ft    |
| APCO- BY-AP-MW-5V | ORP       | Oxidation Reduction Potential | 4/4/23 10:53 AM | 93.34   | mv    |
| APCO- BY-AP-MW-5V | PH        | pH                            | 4/4/23 10:53 AM | 6.17    | SU    |
| APCO- BY-AP-MW-5V | TEMP      | Temperature                   | 4/4/23 10:53 AM | 22.55   | C     |
| APCO- BY-AP-MW-5V | TURB      | Turbidity                     | 4/4/23 10:53 AM | 6.71    | NTU   |
| APCO- BY-AP-MW-5V | COND      | Conductivity                  | 4/4/23 10:58 AM | 247.15  | uS/cm |
| APCO- BY-AP-MW-5V | DO        | DO                            | 4/4/23 10:58 AM | 0.31    | mg/L  |
| APCO- BY-AP-MW-5V | DTW       | Depth to Water Detail         | 4/4/23 10:58 AM | 22.18   | ft    |
| APCO- BY-AP-MW-5V | ORP       | Oxidation Reduction Potential | 4/4/23 10:58 AM | 111.88  | mv    |
| APCO- BY-AP-MW-5V | PH        | pH                            | 4/4/23 10:58 AM | 6.08    | SU    |
| APCO- BY-AP-MW-5V | TEMP      | Temperature                   | 4/4/23 10:58 AM | 22.42   | C     |
| APCO- BY-AP-MW-5V | TURB      | Turbidity                     | 4/4/23 10:58 AM | 7.73    | NTU   |
| APCO- BY-AP-MW-5V | COND      | Conductivity                  | 4/4/23 11:03 AM | 242.24  | uS/cm |
| APCO- BY-AP-MW-5V | DO        | DO                            | 4/4/23 11:03 AM | 0.35    | mg/L  |
| APCO- BY-AP-MW-5V | DTW       | Depth to Water Detail         | 4/4/23 11:03 AM | 22.18   | ft    |
| APCO- BY-AP-MW-5V | ORP       | Oxidation Reduction Potential | 4/4/23 11:03 AM | 123.79  | mv    |
| APCO- BY-AP-MW-5V | PH        | pH                            | 4/4/23 11:03 AM | 6.03    | SU    |
| APCO- BY-AP-MW-5V | TEMP      | Temperature                   | 4/4/23 11:03 AM | 22.47   | C     |
| APCO- BY-AP-MW-5V | TURB      | Turbidity                     | 4/4/23 11:03 AM | 4.7     | NTU   |
| APCO- BY-AP-MW-5V | COND      | Conductivity                  | 4/4/23 11:08 AM | 236.13  | uS/cm |
| APCO- BY-AP-MW-5V | DO        | DO                            | 4/4/23 11:08 AM | 0.39    | mg/L  |
| APCO- BY-AP-MW-5V | DTW       | Depth to Water Detail         | 4/4/23 11:08 AM | 22.18   | ft    |
| APCO- BY-AP-MW-5V | ORP       | Oxidation Reduction Potential | 4/4/23 11:08 AM | 131.01  | mv    |
| APCO- BY-AP-MW-5V | PH        | pH                            | 4/4/23 11:08 AM | 5.99    | SU    |
| APCO- BY-AP-MW-5V | SULFIDE   | Sulfide                       | 4/4/23 11:08 AM | 0       | mg/L  |
| APCO- BY-AP-MW-5V | TEMP      | Temperature                   | 4/4/23 11:08 AM | 22.54   | C     |
| APCO- BY-AP-MW-5V | TURB      | Turbidity                     | 4/4/23 11:08 AM | 3.45    | NTU   |
| APCO- BY-AP-MW-8  | COND      | Conductivity                  | 4/3/23 9:24 AM  | 154.13  | uS/cm |
| APCO- BY-AP-MW-8  | DO        | DO                            | 4/3/23 9:24 AM  | 0.15    | mg/L  |
| APCO- BY-AP-MW-8  | DTW       | Depth to Water Detail         | 4/3/23 9:24 AM  | 18.22   | ft    |
| APCO- BY-AP-MW-8  | ORP       | Oxidation Reduction Potential | 4/3/23 9:24 AM  | -100.94 | mv    |
| APCO- BY-AP-MW-8  | PH        | pH                            | 4/3/23 9:24 AM  | 6.34    | SU    |
| APCO- BY-AP-MW-8  | TEMP      | Temperature                   | 4/3/23 9:24 AM  | 19.34   | C     |
| APCO- BY-AP-MW-8  | TURB      | Turbidity                     | 4/3/23 9:24 AM  | 8.09    | NTU   |
| APCO- BY-AP-MW-8  | COND      | Conductivity                  | 4/3/23 9:29 AM  | 153.1   | uS/cm |
| APCO- BY-AP-MW-8  | DO        | DO                            | 4/3/23 9:29 AM  | 0.13    | mg/L  |
| APCO- BY-AP-MW-8  | DTW       | Depth to Water Detail         | 4/3/23 9:29 AM  | 18.22   | ft    |
| APCO- BY-AP-MW-8  | ORP       | Oxidation Reduction Potential | 4/3/23 9:29 AM  | -102.38 | mv    |
| APCO- BY-AP-MW-8  | PH        | pH                            | 4/3/23 9:29 AM  | 6.29    | SU    |
| APCO- BY-AP-MW-8  | TEMP      | Temperature                   | 4/3/23 9:29 AM  | 19.39   | C     |
| APCO- BY-AP-MW-8  | TURB      | Turbidity                     | 4/3/23 9:29 AM  | 7.53    | NTU   |
| APCO- BY-AP-MW-8  | COND      | Conductivity                  | 4/3/23 9:34 AM  | 154.86  | uS/cm |
| APCO- BY-AP-MW-8  | DO        | DO                            | 4/3/23 9:34 AM  | 0.12    | mg/L  |
| APCO- BY-AP-MW-8  | DTW       | Depth to Water Detail         | 4/3/23 9:34 AM  | 18.22   | ft    |
| APCO- BY-AP-MW-8  | ORP       | Oxidation Reduction Potential | 4/3/23 9:34 AM  | -104.13 | mv    |
| APCO- BY-AP-MW-8  | PH        | pH                            | 4/3/23 9:34 AM  | 6.32    | SU    |
| APCO- BY-AP-MW-8  | TEMP      | Temperature                   | 4/3/23 9:34 AM  | 19.42   | C     |
| APCO- BY-AP-MW-8  | TURB      | Turbidity                     | 4/3/23 9:34 AM  | 6.72    | NTU   |
| APCO- BY-AP-MW-8  | COND      | Conductivity                  | 4/3/23 9:39 AM  | 154.48  | uS/cm |
| APCO- BY-AP-MW-8  | DO        | DO                            | 4/3/23 9:39 AM  | 0.12    | mg/L  |
| APCO- BY-AP-MW-8  | DTW       | Depth to Water Detail         | 4/3/23 9:39 AM  | 18.22   | ft    |
| APCO- BY-AP-MW-8  | ORP       | Oxidation Reduction Potential | 4/3/23 9:39 AM  | -105.54 | mv    |
| APCO- BY-AP-MW-8  | PH        | pH                            | 4/3/23 9:39 AM  | 6.34    | SU    |
| APCO- BY-AP-MW-8  | SULFIDE   | Sulfide                       | 4/3/23 9:39 AM  | 0       | mg/L  |
| APCO- BY-AP-MW-8  | TEMP      | Temperature                   | 4/3/23 9:39 AM  | 19.37   | C     |
| APCO- BY-AP-MW-8  | TURB      | Turbidity                     | 4/3/23 9:39 AM  | 5.38    | NTU   |
| APCO- BY-AP-MW-8V | COND      | Conductivity                  | 4/3/23 3:22 PM  | 1177.37 | uS/cm |
| APCO- BY-AP-MW-8V | DO        | DO                            | 4/3/23 3:22 PM  | 0.1     | mg/L  |
| APCO- BY-AP-MW-8V | DTW       | Depth to Water Detail         | 4/3/23 3:22 PM  | 18.12   | ft    |

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|-------------------|-----------|-------------------------------|-----------------|---------|-------|
| APCO- BY-AP-MW-8V | ORP       | Oxidation Reduction Potential | 4/3/23 3:22 PM  | -75.28  | mv    |
| APCO- BY-AP-MW-8V | PH        | pH                            | 4/3/23 3:22 PM  | 6.62    | SU    |
| APCO- BY-AP-MW-8V | TEMP      | Temperature                   | 4/3/23 3:22 PM  | 21.41   | C     |
| APCO- BY-AP-MW-8V | TURB      | Turbidity                     | 4/3/23 3:22 PM  | 6.12    | NTU   |
| APCO- BY-AP-MW-8V | COND      | Conductivity                  | 4/3/23 3:27 PM  | 1156.72 | uS/cm |
| APCO- BY-AP-MW-8V | DO        | DO                            | 4/3/23 3:27 PM  | 0.12    | mg/L  |
| APCO- BY-AP-MW-8V | DTW       | Depth to Water Detail         | 4/3/23 3:27 PM  | 18.12   | ft    |
| APCO- BY-AP-MW-8V | ORP       | Oxidation Reduction Potential | 4/3/23 3:27 PM  | -72.44  | mv    |
| APCO- BY-AP-MW-8V | PH        | pH                            | 4/3/23 3:27 PM  | 6.57    | SU    |
| APCO- BY-AP-MW-8V | TEMP      | Temperature                   | 4/3/23 3:27 PM  | 21.05   | C     |
| APCO- BY-AP-MW-8V | TURB      | Turbidity                     | 4/3/23 3:27 PM  | 5.22    | NTU   |
| APCO- BY-AP-MW-8V | COND      | Conductivity                  | 4/3/23 3:32 PM  | 1152.04 | uS/cm |
| APCO- BY-AP-MW-8V | DO        | DO                            | 4/3/23 3:32 PM  | 0.11    | mg/L  |
| APCO- BY-AP-MW-8V | DTW       | Depth to Water Detail         | 4/3/23 3:32 PM  | 18.12   | ft    |
| APCO- BY-AP-MW-8V | ORP       | Oxidation Reduction Potential | 4/3/23 3:32 PM  | -68.9   | mv    |
| APCO- BY-AP-MW-8V | PH        | pH                            | 4/3/23 3:32 PM  | 6.51    | SU    |
| APCO- BY-AP-MW-8V | TEMP      | Temperature                   | 4/3/23 3:32 PM  | 21.31   | C     |
| APCO- BY-AP-MW-8V | TURB      | Turbidity                     | 4/3/23 3:32 PM  | 5.14    | NTU   |
| APCO- BY-AP-MW-8V | COND      | Conductivity                  | 4/3/23 3:37 PM  | 1142.75 | uS/cm |
| APCO- BY-AP-MW-8V | DO        | DO                            | 4/3/23 3:37 PM  | 0.12    | mg/L  |
| APCO- BY-AP-MW-8V | DTW       | Depth to Water Detail         | 4/3/23 3:37 PM  | 18.12   | ft    |
| APCO- BY-AP-MW-8V | ORP       | Oxidation Reduction Potential | 4/3/23 3:37 PM  | -67.82  | mv    |
| APCO- BY-AP-MW-8V | PH        | pH                            | 4/3/23 3:37 PM  | 6.5     | SU    |
| APCO- BY-AP-MW-8V | SULFIDE   | Sulfide                       | 4/3/23 3:37 PM  | 0       | mg/L  |
| APCO- BY-AP-MW-8V | TEMP      | Temperature                   | 4/3/23 3:37 PM  | 21.45   | C     |
| APCO- BY-AP-MW-8V | TURB      | Turbidity                     | 4/3/23 3:37 PM  | 5.17    | NTU   |
| APCO- BY-AP-MW-9  | COND      | Conductivity                  | 4/4/23 8:29 AM  | 560.66  | uS/cm |
| APCO- BY-AP-MW-9  | DO        | DO                            | 4/4/23 8:29 AM  | 0.16    | mg/L  |
| APCO- BY-AP-MW-9  | DTW       | Depth to Water Detail         | 4/4/23 8:29 AM  | 17.64   | ft    |
| APCO- BY-AP-MW-9  | ORP       | Oxidation Reduction Potential | 4/4/23 8:29 AM  | -86.17  | mv    |
| APCO- BY-AP-MW-9  | PH        | pH                            | 4/4/23 8:29 AM  | 6.12    | SU    |
| APCO- BY-AP-MW-9  | TEMP      | Temperature                   | 4/4/23 8:29 AM  | 21.37   | C     |
| APCO- BY-AP-MW-9  | TURB      | Turbidity                     | 4/4/23 8:29 AM  | 3.75    | NTU   |
| APCO- BY-AP-MW-9  | COND      | Conductivity                  | 4/4/23 8:34 AM  | 559.6   | uS/cm |
| APCO- BY-AP-MW-9  | DO        | DO                            | 4/4/23 8:34 AM  | 0.12    | mg/L  |
| APCO- BY-AP-MW-9  | DTW       | Depth to Water Detail         | 4/4/23 8:34 AM  | 17.64   | ft    |
| APCO- BY-AP-MW-9  | ORP       | Oxidation Reduction Potential | 4/4/23 8:34 AM  | -84.09  | mv    |
| APCO- BY-AP-MW-9  | PH        | pH                            | 4/4/23 8:34 AM  | 6.14    | SU    |
| APCO- BY-AP-MW-9  | TEMP      | Temperature                   | 4/4/23 8:34 AM  | 21.39   | C     |
| APCO- BY-AP-MW-9  | TURB      | Turbidity                     | 4/4/23 8:34 AM  | 5.88    | NTU   |
| APCO- BY-AP-MW-9  | COND      | Conductivity                  | 4/4/23 8:39 AM  | 558.55  | uS/cm |
| APCO- BY-AP-MW-9  | DO        | DO                            | 4/4/23 8:39 AM  | 0.11    | mg/L  |
| APCO- BY-AP-MW-9  | DTW       | Depth to Water Detail         | 4/4/23 8:39 AM  | 17.64   | ft    |
| APCO- BY-AP-MW-9  | ORP       | Oxidation Reduction Potential | 4/4/23 8:39 AM  | -81.72  | mv    |
| APCO- BY-AP-MW-9  | PH        | pH                            | 4/4/23 8:39 AM  | 6.15    | SU    |
| APCO- BY-AP-MW-9  | TEMP      | Temperature                   | 4/4/23 8:39 AM  | 21.39   | C     |
| APCO- BY-AP-MW-9  | TURB      | Turbidity                     | 4/4/23 8:39 AM  | 4.42    | NTU   |
| APCO- BY-AP-MW-9  | COND      | Conductivity                  | 4/4/23 8:44 AM  | 557.93  | uS/cm |
| APCO- BY-AP-MW-9  | DO        | DO                            | 4/4/23 8:44 AM  | 0.11    | mg/L  |
| APCO- BY-AP-MW-9  | DTW       | Depth to Water Detail         | 4/4/23 8:44 AM  | 17.64   | ft    |
| APCO- BY-AP-MW-9  | ORP       | Oxidation Reduction Potential | 4/4/23 8:44 AM  | -79.64  | mv    |
| APCO- BY-AP-MW-9  | PH        | pH                            | 4/4/23 8:44 AM  | 6.15    | SU    |
| APCO- BY-AP-MW-9  | SULFIDE   | Sulfide                       | 4/4/23 8:44 AM  | 0       | mg/L  |
| APCO- BY-AP-MW-9  | TEMP      | Temperature                   | 4/4/23 8:44 AM  | 21.55   | C     |
| APCO- BY-AP-MW-9  | TURB      | Turbidity                     | 4/4/23 8:44 AM  | 3.66    | NTU   |
| APCO- BY-AP-MW-10 | COND      | Conductivity                  | 4/3/23 12:24 PM | 663.05  | uS/cm |
| APCO- BY-AP-MW-10 | DO        | DO                            | 4/3/23 12:24 PM | 0.23    | mg/L  |
| APCO- BY-AP-MW-10 | DTW       | Depth to Water Detail         | 4/3/23 12:24 PM | 18.41   | ft    |
| APCO- BY-AP-MW-10 | ORP       | Oxidation Reduction Potential | 4/3/23 12:24 PM | -75.26  | mv    |
| APCO- BY-AP-MW-10 | PH        | pH                            | 4/3/23 12:24 PM | 6.28    | SU    |



Plant Barry Ash Pond  
Field Parameter Summary

| WELL ID            | PARAMETER | DESCRIPTION                   | TIME OF READING | VALUE  | UNIT  |
|--------------------|-----------|-------------------------------|-----------------|--------|-------|
| APCO- BY-AP-MW-10  | TEMP      | Temperature                   | 4/3/23 12:24 PM | 21.83  | C     |
| APCO- BY-AP-MW-10  | TURB      | Turbidity                     | 4/3/23 12:24 PM | 4.38   | NTU   |
| APCO- BY-AP-MW-10  | COND      | Conductivity                  | 4/3/23 12:29 PM | 653.68 | uS/cm |
| APCO- BY-AP-MW-10  | DO        | DO                            | 4/3/23 12:29 PM | 0.19   | mg/L  |
| APCO- BY-AP-MW-10  | DTW       | Depth to Water Detail         | 4/3/23 12:29 PM | 18.41  | ft    |
| APCO- BY-AP-MW-10  | ORP       | Oxidation Reduction Potential | 4/3/23 12:29 PM | -69.56 | mv    |
| APCO- BY-AP-MW-10  | PH        | pH                            | 4/3/23 12:29 PM | 6.17   | SU    |
| APCO- BY-AP-MW-10  | TEMP      | Temperature                   | 4/3/23 12:29 PM | 21.86  | C     |
| APCO- BY-AP-MW-10  | TURB      | Turbidity                     | 4/3/23 12:29 PM | 3.3    | NTU   |
| APCO- BY-AP-MW-10  | COND      | Conductivity                  | 4/3/23 12:34 PM | 648.29 | uS/cm |
| APCO- BY-AP-MW-10  | DO        | DO                            | 4/3/23 12:34 PM | 0.17   | mg/L  |
| APCO- BY-AP-MW-10  | DTW       | Depth to Water Detail         | 4/3/23 12:34 PM | 18.41  | ft    |
| APCO- BY-AP-MW-10  | ORP       | Oxidation Reduction Potential | 4/3/23 12:34 PM | -64.9  | mv    |
| APCO- BY-AP-MW-10  | PH        | pH                            | 4/3/23 12:34 PM | 6.09   | SU    |
| APCO- BY-AP-MW-10  | TEMP      | Temperature                   | 4/3/23 12:34 PM | 21.84  | C     |
| APCO- BY-AP-MW-10  | TURB      | Turbidity                     | 4/3/23 12:34 PM | 3.11   | NTU   |
| APCO- BY-AP-MW-10  | COND      | Conductivity                  | 4/3/23 12:39 PM | 644.19 | uS/cm |
| APCO- BY-AP-MW-10  | DO        | DO                            | 4/3/23 12:39 PM | 0.17   | mg/L  |
| APCO- BY-AP-MW-10  | DTW       | Depth to Water Detail         | 4/3/23 12:39 PM | 18.41  | ft    |
| APCO- BY-AP-MW-10  | ORP       | Oxidation Reduction Potential | 4/3/23 12:39 PM | -62.3  | mv    |
| APCO- BY-AP-MW-10  | PH        | pH                            | 4/3/23 12:39 PM | 6.05   | SU    |
| APCO- BY-AP-MW-10  | SULFIDE   | Sulfide                       | 4/3/23 12:39 PM | 0      | mg/L  |
| APCO- BY-AP-MW-10  | TEMP      | Temperature                   | 4/3/23 12:39 PM | 21.82  | C     |
| APCO- BY-AP-MW-10  | TURB      | Turbidity                     | 4/3/23 12:39 PM | 2.92   | NTU   |
| APCO- BY-AP-MW-14  | COND      | Conductivity                  | 4/5/23 11:17 AM | 484    | uS/cm |
| APCO- BY-AP-MW-14  | DO        | DO                            | 4/5/23 11:17 AM | 0.32   | mg/L  |
| APCO- BY-AP-MW-14  | DTW       | Depth to Water Detail         | 4/5/23 11:17 AM | 5.94   | ft    |
| APCO- BY-AP-MW-14  | ORP       | Oxidation Reduction Potential | 4/5/23 11:17 AM | -32.63 | mv    |
| APCO- BY-AP-MW-14  | PH        | pH                            | 4/5/23 11:17 AM | 6.1    | SU    |
| APCO- BY-AP-MW-14  | TEMP      | Temperature                   | 4/5/23 11:17 AM | 21.61  | C     |
| APCO- BY-AP-MW-14  | TURB      | Turbidity                     | 4/5/23 11:17 AM | 2.01   | NTU   |
| APCO- BY-AP-MW-14  | COND      | Conductivity                  | 4/5/23 11:22 AM | 491.69 | uS/cm |
| APCO- BY-AP-MW-14  | DO        | DO                            | 4/5/23 11:22 AM | 0.27   | mg/L  |
| APCO- BY-AP-MW-14  | DTW       | Depth to Water Detail         | 4/5/23 11:22 AM | 5.94   | ft    |
| APCO- BY-AP-MW-14  | ORP       | Oxidation Reduction Potential | 4/5/23 11:22 AM | -29.04 | mv    |
| APCO- BY-AP-MW-14  | PH        | pH                            | 4/5/23 11:22 AM | 6.01   | SU    |
| APCO- BY-AP-MW-14  | TEMP      | Temperature                   | 4/5/23 11:22 AM | 21.66  | C     |
| APCO- BY-AP-MW-14  | TURB      | Turbidity                     | 4/5/23 11:22 AM | 1.95   | NTU   |
| APCO- BY-AP-MW-14  | COND      | Conductivity                  | 4/5/23 11:27 AM | 493.12 | uS/cm |
| APCO- BY-AP-MW-14  | DO        | DO                            | 4/5/23 11:27 AM | 0.25   | mg/L  |
| APCO- BY-AP-MW-14  | DTW       | Depth to Water Detail         | 4/5/23 11:27 AM | 5.94   | ft    |
| APCO- BY-AP-MW-14  | ORP       | Oxidation Reduction Potential | 4/5/23 11:27 AM | -26.35 | mv    |
| APCO- BY-AP-MW-14  | PH        | pH                            | 4/5/23 11:27 AM | 5.96   | SU    |
| APCO- BY-AP-MW-14  | TEMP      | Temperature                   | 4/5/23 11:27 AM | 21.65  | C     |
| APCO- BY-AP-MW-14  | TURB      | Turbidity                     | 4/5/23 11:27 AM | 1.84   | NTU   |
| APCO- BY-AP-MW-14  | COND      | Conductivity                  | 4/5/23 11:32 AM | 492.29 | uS/cm |
| APCO- BY-AP-MW-14  | DO        | DO                            | 4/5/23 11:32 AM | 0.24   | mg/L  |
| APCO- BY-AP-MW-14  | DTW       | Depth to Water Detail         | 4/5/23 11:32 AM | 5.94   | ft    |
| APCO- BY-AP-MW-14  | ORP       | Oxidation Reduction Potential | 4/5/23 11:32 AM | -25.06 | mv    |
| APCO- BY-AP-MW-14  | PH        | pH                            | 4/5/23 11:32 AM | 5.93   | SU    |
| APCO- BY-AP-MW-14  | SULFIDE   | Sulfide                       | 4/5/23 11:32 AM | 0      | mg/L  |
| APCO- BY-AP-MW-14  | TEMP      | Temperature                   | 4/5/23 11:32 AM | 21.7   | C     |
| APCO- BY-AP-MW-14  | TURB      | Turbidity                     | 4/5/23 11:32 AM | 1.88   | NTU   |
| APCO- BY-AP-MW-16V | COND      | Conductivity                  | 4/4/23 3:53 PM  | 300.29 | uS/cm |
| APCO- BY-AP-MW-16V | DO        | DO                            | 4/4/23 3:53 PM  | 0.15   | mg/L  |
| APCO- BY-AP-MW-16V | DTW       | Depth to Water Detail         | 4/4/23 3:53 PM  | 17.85  | ft    |
| APCO- BY-AP-MW-16V | ORP       | Oxidation Reduction Potential | 4/4/23 3:53 PM  | 135.72 | mv    |
| APCO- BY-AP-MW-16V | PH        | pH                            | 4/4/23 3:53 PM  | 5.29   | SU    |
| APCO- BY-AP-MW-16V | TEMP      | Temperature                   | 4/4/23 3:53 PM  | 22.31  | C     |
| APCO- BY-AP-MW-16V | TURB      | Turbidity                     | 4/4/23 3:53 PM  | 40.7   | NTU   |

Plant Barry Ash Pond  
Field Parameter Summary

| WELL ID            | PARAMETER | DESCRIPTION                   | TIME OF READING | VALUE  | UNIT  |
|--------------------|-----------|-------------------------------|-----------------|--------|-------|
| APCO- BY-AP-MW-16V | COND      | Conductivity                  | 4/4/23 3:58 PM  | 300.2  | uS/cm |
| APCO- BY-AP-MW-16V | DO        | DO                            | 4/4/23 3:58 PM  | 0.14   | mg/L  |
| APCO- BY-AP-MW-16V | DTW       | Depth to Water Detail         | 4/4/23 3:58 PM  | 17.85  | ft    |
| APCO- BY-AP-MW-16V | ORP       | Oxidation Reduction Potential | 4/4/23 3:58 PM  | 143.74 | mv    |
| APCO- BY-AP-MW-16V | PH        | pH                            | 4/4/23 3:58 PM  | 5.14   | SU    |
| APCO- BY-AP-MW-16V | TEMP      | Temperature                   | 4/4/23 3:58 PM  | 22.29  | C     |
| APCO- BY-AP-MW-16V | TURB      | Turbidity                     | 4/4/23 3:58 PM  | 24.3   | NTU   |
| APCO- BY-AP-MW-16V | COND      | Conductivity                  | 4/4/23 4:03 PM  | 299.93 | uS/cm |
| APCO- BY-AP-MW-16V | DO        | DO                            | 4/4/23 4:03 PM  | 0.15   | mg/L  |
| APCO- BY-AP-MW-16V | DTW       | Depth to Water Detail         | 4/4/23 4:03 PM  | 17.85  | ft    |
| APCO- BY-AP-MW-16V | ORP       | Oxidation Reduction Potential | 4/4/23 4:03 PM  | 146.07 | mv    |
| APCO- BY-AP-MW-16V | PH        | pH                            | 4/4/23 4:03 PM  | 5.08   | SU    |
| APCO- BY-AP-MW-16V | TEMP      | Temperature                   | 4/4/23 4:03 PM  | 22.28  | C     |
| APCO- BY-AP-MW-16V | TURB      | Turbidity                     | 4/4/23 4:03 PM  | 18.4   | NTU   |
| APCO- BY-AP-MW-16V | COND      | Conductivity                  | 4/4/23 4:08 PM  | 299.65 | uS/cm |
| APCO- BY-AP-MW-16V | DO        | DO                            | 4/4/23 4:08 PM  | 0.15   | mg/L  |
| APCO- BY-AP-MW-16V | DTW       | Depth to Water Detail         | 4/4/23 4:08 PM  | 17.85  | ft    |
| APCO- BY-AP-MW-16V | ORP       | Oxidation Reduction Potential | 4/4/23 4:08 PM  | 145.99 | mv    |
| APCO- BY-AP-MW-16V | PH        | pH                            | 4/4/23 4:08 PM  | 5.03   | SU    |
| APCO- BY-AP-MW-16V | TEMP      | Temperature                   | 4/4/23 4:08 PM  | 22.17  | C     |
| APCO- BY-AP-MW-16V | TURB      | Turbidity                     | 4/4/23 4:08 PM  | 16.6   | NTU   |
| APCO- BY-AP-MW-16V | COND      | Conductivity                  | 4/4/23 4:13 PM  | 299.29 | uS/cm |
| APCO- BY-AP-MW-16V | DO        | DO                            | 4/4/23 4:13 PM  | 0.15   | mg/L  |
| APCO- BY-AP-MW-16V | DTW       | Depth to Water Detail         | 4/4/23 4:13 PM  | 17.85  | ft    |
| APCO- BY-AP-MW-16V | ORP       | Oxidation Reduction Potential | 4/4/23 4:13 PM  | 143.56 | mv    |
| APCO- BY-AP-MW-16V | PH        | pH                            | 4/4/23 4:13 PM  | 5      | SU    |
| APCO- BY-AP-MW-16V | TEMP      | Temperature                   | 4/4/23 4:13 PM  | 22.1   | C     |
| APCO- BY-AP-MW-16V | TURB      | Turbidity                     | 4/4/23 4:13 PM  | 13.5   | NTU   |
| APCO- BY-AP-MW-16V | COND      | Conductivity                  | 4/4/23 4:18 PM  | 299.52 | uS/cm |
| APCO- BY-AP-MW-16V | DO        | DO                            | 4/4/23 4:18 PM  | 0.15   | mg/L  |
| APCO- BY-AP-MW-16V | DTW       | Depth to Water Detail         | 4/4/23 4:18 PM  | 17.85  | ft    |
| APCO- BY-AP-MW-16V | ORP       | Oxidation Reduction Potential | 4/4/23 4:18 PM  | 139.86 | mv    |
| APCO- BY-AP-MW-16V | PH        | pH                            | 4/4/23 4:18 PM  | 4.98   | SU    |
| APCO- BY-AP-MW-16V | TEMP      | Temperature                   | 4/4/23 4:18 PM  | 22.06  | C     |
| APCO- BY-AP-MW-16V | TURB      | Turbidity                     | 4/4/23 4:18 PM  | 11.1   | NTU   |
| APCO- BY-AP-MW-16V | COND      | Conductivity                  | 4/4/23 4:23 PM  | 298.77 | uS/cm |
| APCO- BY-AP-MW-16V | DO        | DO                            | 4/4/23 4:23 PM  | 0.15   | mg/L  |
| APCO- BY-AP-MW-16V | DTW       | Depth to Water Detail         | 4/4/23 4:23 PM  | 17.85  | ft    |
| APCO- BY-AP-MW-16V | ORP       | Oxidation Reduction Potential | 4/4/23 4:23 PM  | 136.61 | mv    |
| APCO- BY-AP-MW-16V | PH        | pH                            | 4/4/23 4:23 PM  | 4.97   | SU    |
| APCO- BY-AP-MW-16V | TEMP      | Temperature                   | 4/4/23 4:23 PM  | 22.09  | C     |
| APCO- BY-AP-MW-16V | TURB      | Turbidity                     | 4/4/23 4:23 PM  | 9.47   | NTU   |
| APCO- BY-AP-MW-16V | COND      | Conductivity                  | 4/4/23 4:28 PM  | 298.93 | uS/cm |
| APCO- BY-AP-MW-16V | DO        | DO                            | 4/4/23 4:28 PM  | 0.15   | mg/L  |
| APCO- BY-AP-MW-16V | DTW       | Depth to Water Detail         | 4/4/23 4:28 PM  | 17.85  | ft    |
| APCO- BY-AP-MW-16V | ORP       | Oxidation Reduction Potential | 4/4/23 4:28 PM  | 134.31 | mv    |
| APCO- BY-AP-MW-16V | PH        | pH                            | 4/4/23 4:28 PM  | 4.97   | SU    |
| APCO- BY-AP-MW-16V | SULFIDE   | Sulfide                       | 4/4/23 4:28 PM  | 0      | mg/L  |
| APCO- BY-AP-MW-16V | TEMP      | Temperature                   | 4/4/23 4:28 PM  | 22.07  | C     |
| APCO- BY-AP-MW-16V | TURB      | Turbidity                     | 4/4/23 4:28 PM  | 8.86   | NTU   |
| APCO- BY-AP-MW-18H | COND      | Conductivity                  | 4/5/23 9:05 AM  | 124.13 | uS/cm |
| APCO- BY-AP-MW-18H | DO        | DO                            | 4/5/23 9:05 AM  | 0.28   | mg/L  |
| APCO- BY-AP-MW-18H | DTW       | Depth to Water Detail         | 4/5/23 9:05 AM  | 3.67   | ft    |
| APCO- BY-AP-MW-18H | ORP       | Oxidation Reduction Potential | 4/5/23 9:05 AM  | -93.21 | mv    |
| APCO- BY-AP-MW-18H | PH        | pH                            | 4/5/23 9:05 AM  | 6.31   | SU    |
| APCO- BY-AP-MW-18H | TEMP      | Temperature                   | 4/5/23 9:05 AM  | 18.15  | C     |
| APCO- BY-AP-MW-18H | TURB      | Turbidity                     | 4/5/23 9:05 AM  | 6.11   | NTU   |
| APCO- BY-AP-MW-18H | COND      | Conductivity                  | 4/5/23 9:10 AM  | 123.93 | uS/cm |
| APCO- BY-AP-MW-18H | DO        | DO                            | 4/5/23 9:10 AM  | 0.22   | mg/L  |
| APCO- BY-AP-MW-18H | DTW       | Depth to Water Detail         | 4/5/23 9:10 AM  | 3.67   | ft    |

Plant Barry Ash Pond  
Field Parameter Summary

| WELL ID            | PARAMETER | DESCRIPTION                   | TIME OF READING | VALUE  | UNIT  |
|--------------------|-----------|-------------------------------|-----------------|--------|-------|
| APCO- BY-AP-MW-18H | ORP       | Oxidation Reduction Potential | 4/5/23 9:10 AM  | -83.57 | mv    |
| APCO- BY-AP-MW-18H | PH        | pH                            | 4/5/23 9:10 AM  | 6.18   | SU    |
| APCO- BY-AP-MW-18H | TEMP      | Temperature                   | 4/5/23 9:10 AM  | 18.16  | C     |
| APCO- BY-AP-MW-18H | TURB      | Turbidity                     | 4/5/23 9:10 AM  | 4.89   | NTU   |
| APCO- BY-AP-MW-18H | COND      | Conductivity                  | 4/5/23 9:15 AM  | 122.81 | uS/cm |
| APCO- BY-AP-MW-18H | DO        | DO                            | 4/5/23 9:15 AM  | 0.19   | mg/L  |
| APCO- BY-AP-MW-18H | DTW       | Depth to Water Detail         | 4/5/23 9:15 AM  | 3.67   | ft    |
| APCO- BY-AP-MW-18H | ORP       | Oxidation Reduction Potential | 4/5/23 9:15 AM  | -81.06 | mv    |
| APCO- BY-AP-MW-18H | PH        | pH                            | 4/5/23 9:15 AM  | 6.15   | SU    |
| APCO- BY-AP-MW-18H | TEMP      | Temperature                   | 4/5/23 9:15 AM  | 18.07  | C     |
| APCO- BY-AP-MW-18H | TURB      | Turbidity                     | 4/5/23 9:15 AM  | 4.45   | NTU   |
| APCO- BY-AP-MW-18H | COND      | Conductivity                  | 4/5/23 9:20 AM  | 124.04 | uS/cm |
| APCO- BY-AP-MW-18H | DO        | DO                            | 4/5/23 9:20 AM  | 0.22   | mg/L  |
| APCO- BY-AP-MW-18H | DTW       | Depth to Water Detail         | 4/5/23 9:20 AM  | 3.67   | ft    |
| APCO- BY-AP-MW-18H | ORP       | Oxidation Reduction Potential | 4/5/23 9:20 AM  | -79.95 | mv    |
| APCO- BY-AP-MW-18H | PH        | pH                            | 4/5/23 9:20 AM  | 6.15   | SU    |
| APCO- BY-AP-MW-18H | SULFIDE   | Sulfide                       | 4/5/23 9:20 AM  | 0      | mg/L  |
| APCO- BY-AP-MW-18H | TEMP      | Temperature                   | 4/5/23 9:20 AM  | 18.15  | C     |
| APCO- BY-AP-MW-18H | TURB      | Turbidity                     | 4/5/23 9:20 AM  | 4.13   | NTU   |
| APCO- BY-AP-MW-15V | COND      | Conductivity                  | 4/24/23 2:34 PM | 640.4  | uS/cm |
| APCO- BY-AP-MW-15V | DO        | DO                            | 4/24/23 2:34 PM | 0.14   | mg/L  |
| APCO- BY-AP-MW-15V | DTW       | Depth to Water Detail         | 4/24/23 2:34 PM | 4.45   | ft    |
| APCO- BY-AP-MW-15V | ORP       | Oxidation Reduction Potential | 4/24/23 2:34 PM | 49.58  | mv    |
| APCO- BY-AP-MW-15V | PH        | pH                            | 4/24/23 2:34 PM | 5.52   | SU    |
| APCO- BY-AP-MW-15V | TEMP      | Temperature                   | 4/24/23 2:34 PM | 20.64  | C     |
| APCO- BY-AP-MW-15V | TURB      | Turbidity                     | 4/24/23 2:34 PM | 3.14   | NTU   |
| APCO- BY-AP-MW-15V | COND      | Conductivity                  | 4/24/23 2:39 PM | 675.65 | uS/cm |
| APCO- BY-AP-MW-15V | DO        | DO                            | 4/24/23 2:39 PM | 0.11   | mg/L  |
| APCO- BY-AP-MW-15V | DTW       | Depth to Water Detail         | 4/24/23 2:39 PM | 4.45   | ft    |
| APCO- BY-AP-MW-15V | ORP       | Oxidation Reduction Potential | 4/24/23 2:39 PM | 42.79  | mv    |
| APCO- BY-AP-MW-15V | PH        | pH                            | 4/24/23 2:39 PM | 5.59   | SU    |
| APCO- BY-AP-MW-15V | TEMP      | Temperature                   | 4/24/23 2:39 PM | 20.68  | C     |
| APCO- BY-AP-MW-15V | TURB      | Turbidity                     | 4/24/23 2:39 PM | 1      | NTU   |
| APCO- BY-AP-MW-15V | COND      | Conductivity                  | 4/24/23 2:44 PM | 676.71 | uS/cm |
| APCO- BY-AP-MW-15V | DO        | DO                            | 4/24/23 2:44 PM | 0.1    | mg/L  |
| APCO- BY-AP-MW-15V | DTW       | Depth to Water Detail         | 4/24/23 2:44 PM | 4.45   | ft    |
| APCO- BY-AP-MW-15V | ORP       | Oxidation Reduction Potential | 4/24/23 2:44 PM | 38.59  | mv    |
| APCO- BY-AP-MW-15V | PH        | pH                            | 4/24/23 2:44 PM | 5.6    | SU    |
| APCO- BY-AP-MW-15V | TEMP      | Temperature                   | 4/24/23 2:44 PM | 20.67  | C     |
| APCO- BY-AP-MW-15V | TURB      | Turbidity                     | 4/24/23 2:44 PM | 1.67   | NTU   |
| APCO- BY-AP-MW-15V | COND      | Conductivity                  | 4/24/23 2:49 PM | 676.76 | uS/cm |
| APCO- BY-AP-MW-15V | DO        | DO                            | 4/24/23 2:49 PM | 0.12   | mg/L  |
| APCO- BY-AP-MW-15V | DTW       | Depth to Water Detail         | 4/24/23 2:49 PM | 4.45   | ft    |
| APCO- BY-AP-MW-15V | ORP       | Oxidation Reduction Potential | 4/24/23 2:49 PM | 37.07  | mv    |
| APCO- BY-AP-MW-15V | PH        | pH                            | 4/24/23 2:49 PM | 5.61   | SU    |
| APCO- BY-AP-MW-15V | TEMP      | Temperature                   | 4/24/23 2:49 PM | 20.68  | C     |
| APCO- BY-AP-MW-15V | TURB      | Turbidity                     | 4/24/23 2:49 PM | 10.56  | NTU   |
| APCO- BY-AP-MW-15V | COND      | Conductivity                  | 4/24/23 2:54 PM | 676.95 | uS/cm |
| APCO- BY-AP-MW-15V | DO        | DO                            | 4/24/23 2:54 PM | 0.11   | mg/L  |
| APCO- BY-AP-MW-15V | DTW       | Depth to Water Detail         | 4/24/23 2:54 PM | 4.45   | ft    |
| APCO- BY-AP-MW-15V | ORP       | Oxidation Reduction Potential | 4/24/23 2:54 PM | 36.2   | mv    |
| APCO- BY-AP-MW-15V | PH        | pH                            | 4/24/23 2:54 PM | 5.61   | SU    |
| APCO- BY-AP-MW-15V | TEMP      | Temperature                   | 4/24/23 2:54 PM | 20.7   | C     |
| APCO- BY-AP-MW-15V | TURB      | Turbidity                     | 4/24/23 2:54 PM | 10.87  | NTU   |
| APCO- BY-AP-MW-15V | COND      | Conductivity                  | 4/24/23 2:59 PM | 675.79 | uS/cm |
| APCO- BY-AP-MW-15V | DO        | DO                            | 4/24/23 2:59 PM | 0.1    | mg/L  |
| APCO- BY-AP-MW-15V | DTW       | Depth to Water Detail         | 4/24/23 2:59 PM | 4.45   | ft    |
| APCO- BY-AP-MW-15V | ORP       | Oxidation Reduction Potential | 4/24/23 2:59 PM | 36.12  | mv    |
| APCO- BY-AP-MW-15V | PH        | pH                            | 4/24/23 2:59 PM | 5.61   | SU    |
| APCO- BY-AP-MW-15V | SULFIDE   | Sulfide                       | 4/24/23 2:59 PM | 0      | mg/L  |

Plant Barry Ash Pond  
Field Parameter Summary

| WELL ID            | PARAMETER | DESCRIPTION                   | TIME OF READING | VALUE  | UNIT  |
|--------------------|-----------|-------------------------------|-----------------|--------|-------|
| APCO- BY-AP-MW-15V | TEMP      | Temperature                   | 4/24/23 2:59 PM | 20.74  | C     |
| APCO- BY-AP-MW-15V | TURB      | Turbidity                     | 4/24/23 2:59 PM | 4.37   | NTU   |
| APCO- BY-AP-MW-22H | COND      | Conductivity                  | 4/24/23 1:48 PM | 649.62 | uS/cm |
| APCO- BY-AP-MW-22H | DO        | DO                            | 4/24/23 1:48 PM | 0.39   | mg/L  |
| APCO- BY-AP-MW-22H | DTW       | Depth to Water Detail         | 4/24/23 1:48 PM | 5.39   | ft    |
| APCO- BY-AP-MW-22H | ORP       | Oxidation Reduction Potential | 4/24/23 1:48 PM | -74.06 | mv    |
| APCO- BY-AP-MW-22H | PH        | pH                            | 4/24/23 1:48 PM | 6.37   | SU    |
| APCO- BY-AP-MW-22H | TEMP      | Temperature                   | 4/24/23 1:48 PM | 19.96  | C     |
| APCO- BY-AP-MW-22H | TURB      | Turbidity                     | 4/24/23 1:48 PM | 1.76   | NTU   |
| APCO- BY-AP-MW-22H | COND      | Conductivity                  | 4/24/23 1:53 PM | 653.04 | uS/cm |
| APCO- BY-AP-MW-22H | DO        | DO                            | 4/24/23 1:53 PM | 0.15   | mg/L  |
| APCO- BY-AP-MW-22H | DTW       | Depth to Water Detail         | 4/24/23 1:53 PM | 5.39   | ft    |
| APCO- BY-AP-MW-22H | ORP       | Oxidation Reduction Potential | 4/24/23 1:53 PM | -82.62 | mv    |
| APCO- BY-AP-MW-22H | PH        | pH                            | 4/24/23 1:53 PM | 6.4    | SU    |
| APCO- BY-AP-MW-22H | TEMP      | Temperature                   | 4/24/23 1:53 PM | 19.99  | C     |
| APCO- BY-AP-MW-22H | TURB      | Turbidity                     | 4/24/23 1:53 PM | 2.42   | NTU   |
| APCO- BY-AP-MW-22H | COND      | Conductivity                  | 4/24/23 1:58 PM | 659.68 | uS/cm |
| APCO- BY-AP-MW-22H | DO        | DO                            | 4/24/23 1:58 PM | 0.09   | mg/L  |
| APCO- BY-AP-MW-22H | DTW       | Depth to Water Detail         | 4/24/23 1:58 PM | 5.39   | ft    |
| APCO- BY-AP-MW-22H | ORP       | Oxidation Reduction Potential | 4/24/23 1:58 PM | -91    | mv    |
| APCO- BY-AP-MW-22H | PH        | pH                            | 4/24/23 1:58 PM | 6.45   | SU    |
| APCO- BY-AP-MW-22H | TEMP      | Temperature                   | 4/24/23 1:58 PM | 20.02  | C     |
| APCO- BY-AP-MW-22H | TURB      | Turbidity                     | 4/24/23 1:58 PM | 1.38   | NTU   |
| APCO- BY-AP-MW-22H | COND      | Conductivity                  | 4/24/23 2:03 PM | 660.41 | uS/cm |
| APCO- BY-AP-MW-22H | DO        | DO                            | 4/24/23 2:03 PM | 0.04   | mg/L  |
| APCO- BY-AP-MW-22H | DTW       | Depth to Water Detail         | 4/24/23 2:03 PM | 5.39   | ft    |
| APCO- BY-AP-MW-22H | ORP       | Oxidation Reduction Potential | 4/24/23 2:03 PM | -94.71 | mv    |
| APCO- BY-AP-MW-22H | PH        | pH                            | 4/24/23 2:03 PM | 6.46   | SU    |
| APCO- BY-AP-MW-22H | SULFIDE   | Sulfide                       | 4/24/23 2:03 PM | 0      | mg/L  |
| APCO- BY-AP-MW-22H | TEMP      | Temperature                   | 4/24/23 2:03 PM | 20.02  | C     |
| APCO- BY-AP-MW-22H | TURB      | Turbidity                     | 4/24/23 2:03 PM | 0.91   | NTU   |
| APCO- BY-AP-MW-20H | COND      | Conductivity                  | 4/24/23 3:49 PM | 756.51 | uS/cm |
| APCO- BY-AP-MW-20H | DO        | DO                            | 4/24/23 3:49 PM | 0.09   | mg/L  |
| APCO- BY-AP-MW-20H | DTW       | Depth to Water Detail         | 4/24/23 3:49 PM | 6.92   | ft    |
| APCO- BY-AP-MW-20H | ORP       | Oxidation Reduction Potential | 4/24/23 3:49 PM | -64.54 | mv    |
| APCO- BY-AP-MW-20H | PH        | pH                            | 4/24/23 3:49 PM | 6.24   | SU    |
| APCO- BY-AP-MW-20H | TEMP      | Temperature                   | 4/24/23 3:49 PM | 19.81  | C     |
| APCO- BY-AP-MW-20H | TURB      | Turbidity                     | 4/24/23 3:49 PM | 1.18   | NTU   |
| APCO- BY-AP-MW-20H | COND      | Conductivity                  | 4/24/23 3:54 PM | 752.84 | uS/cm |
| APCO- BY-AP-MW-20H | DO        | DO                            | 4/24/23 3:54 PM | 0.05   | mg/L  |
| APCO- BY-AP-MW-20H | DTW       | Depth to Water Detail         | 4/24/23 3:54 PM | 6.92   | ft    |
| APCO- BY-AP-MW-20H | ORP       | Oxidation Reduction Potential | 4/24/23 3:54 PM | -67.68 | mv    |
| APCO- BY-AP-MW-20H | PH        | pH                            | 4/24/23 3:54 PM | 6.21   | SU    |
| APCO- BY-AP-MW-20H | TEMP      | Temperature                   | 4/24/23 3:54 PM | 19.81  | C     |
| APCO- BY-AP-MW-20H | TURB      | Turbidity                     | 4/24/23 3:54 PM | 2.19   | NTU   |
| APCO- BY-AP-MW-20H | COND      | Conductivity                  | 4/24/23 3:59 PM | 754.21 | uS/cm |
| APCO- BY-AP-MW-20H | DO        | DO                            | 4/24/23 3:59 PM | 0.04   | mg/L  |
| APCO- BY-AP-MW-20H | DTW       | Depth to Water Detail         | 4/24/23 3:59 PM | 6.92   | ft    |
| APCO- BY-AP-MW-20H | ORP       | Oxidation Reduction Potential | 4/24/23 3:59 PM | -68.92 | mv    |
| APCO- BY-AP-MW-20H | PH        | pH                            | 4/24/23 3:59 PM | 6.18   | SU    |
| APCO- BY-AP-MW-20H | TEMP      | Temperature                   | 4/24/23 3:59 PM | 19.82  | C     |
| APCO- BY-AP-MW-20H | TURB      | Turbidity                     | 4/24/23 3:59 PM | 0.51   | NTU   |
| APCO- BY-AP-MW-20H | COND      | Conductivity                  | 4/24/23 4:04 PM | 759.26 | uS/cm |
| APCO- BY-AP-MW-20H | DO        | DO                            | 4/24/23 4:04 PM | 0.04   | mg/L  |
| APCO- BY-AP-MW-20H | DTW       | Depth to Water Detail         | 4/24/23 4:04 PM | 6.92   | ft    |
| APCO- BY-AP-MW-20H | ORP       | Oxidation Reduction Potential | 4/24/23 4:04 PM | -69.55 | mv    |
| APCO- BY-AP-MW-20H | PH        | pH                            | 4/24/23 4:04 PM | 6.16   | SU    |
| APCO- BY-AP-MW-20H | SULFIDE   | Sulfide                       | 4/24/23 4:04 PM | 0      | mg/L  |
| APCO- BY-AP-MW-20H | TEMP      | Temperature                   | 4/24/23 4:04 PM | 19.83  | C     |
| APCO- BY-AP-MW-20H | TURB      | Turbidity                     | 4/24/23 4:04 PM | 1.8    | NTU   |

Plant Barry Ash Pond  
Field Parameter Summary

| WELL ID            | PARAMETER | DESCRIPTION                   | TIME OF READING  | VALUE  | UNIT  |
|--------------------|-----------|-------------------------------|------------------|--------|-------|
| APCO- BY-AP-MW-20V | COND      | Conductivity                  | 4/24/23 12:40 PM | 282.47 | uS/cm |
| APCO- BY-AP-MW-20V | DO        | DO                            | 4/24/23 12:40 PM | 0.38   | mg/L  |
| APCO- BY-AP-MW-20V | DTW       | Depth to Water Detail         | 4/24/23 12:40 PM | 22.9   | ft    |
| APCO- BY-AP-MW-20V | ORP       | Oxidation Reduction Potential | 4/24/23 12:40 PM | 8.17   | mv    |
| APCO- BY-AP-MW-20V | PH        | pH                            | 4/24/23 12:40 PM | 6.4    | SU    |
| APCO- BY-AP-MW-20V | TEMP      | Temperature                   | 4/24/23 12:40 PM | 20.34  | C     |
| APCO- BY-AP-MW-20V | TURB      | Turbidity                     | 4/24/23 12:40 PM | 2.56   | NTU   |
| APCO- BY-AP-MW-20V | COND      | Conductivity                  | 4/24/23 12:45 PM | 283.85 | uS/cm |
| APCO- BY-AP-MW-20V | DO        | DO                            | 4/24/23 12:45 PM | 0.25   | mg/L  |
| APCO- BY-AP-MW-20V | DTW       | Depth to Water Detail         | 4/24/23 12:45 PM | 22.9   | ft    |
| APCO- BY-AP-MW-20V | ORP       | Oxidation Reduction Potential | 4/24/23 12:45 PM | -22.8  | mv    |
| APCO- BY-AP-MW-20V | PH        | pH                            | 4/24/23 12:45 PM | 6.4    | SU    |
| APCO- BY-AP-MW-20V | TEMP      | Temperature                   | 4/24/23 12:45 PM | 20.22  | C     |
| APCO- BY-AP-MW-20V | TURB      | Turbidity                     | 4/24/23 12:45 PM | 4.86   | NTU   |
| APCO- BY-AP-MW-20V | COND      | Conductivity                  | 4/24/23 12:50 PM | 282.32 | uS/cm |
| APCO- BY-AP-MW-20V | DO        | DO                            | 4/24/23 12:50 PM | 0.25   | mg/L  |
| APCO- BY-AP-MW-20V | DTW       | Depth to Water Detail         | 4/24/23 12:50 PM | 22.9   | ft    |
| APCO- BY-AP-MW-20V | ORP       | Oxidation Reduction Potential | 4/24/23 12:50 PM | -31.67 | mv    |
| APCO- BY-AP-MW-20V | PH        | pH                            | 4/24/23 12:50 PM | 6.35   | SU    |
| APCO- BY-AP-MW-20V | TEMP      | Temperature                   | 4/24/23 12:50 PM | 20.24  | C     |
| APCO- BY-AP-MW-20V | TURB      | Turbidity                     | 4/24/23 12:50 PM | 5.7    | NTU   |
| APCO- BY-AP-MW-20V | COND      | Conductivity                  | 4/24/23 12:55 PM | 283.31 | uS/cm |
| APCO- BY-AP-MW-20V | DO        | DO                            | 4/24/23 12:55 PM | 0.2    | mg/L  |
| APCO- BY-AP-MW-20V | DTW       | Depth to Water Detail         | 4/24/23 12:55 PM | 22.9   | ft    |
| APCO- BY-AP-MW-20V | ORP       | Oxidation Reduction Potential | 4/24/23 12:55 PM | -38.79 | mv    |
| APCO- BY-AP-MW-20V | PH        | pH                            | 4/24/23 12:55 PM | 6.35   | SU    |
| APCO- BY-AP-MW-20V | SULFIDE   | Sulfide                       | 4/24/23 12:55 PM | 0      | mg/L  |
| APCO- BY-AP-MW-20V | TEMP      | Temperature                   | 4/24/23 12:55 PM | 20.16  | C     |
| APCO- BY-AP-MW-20V | TURB      | Turbidity                     | 4/24/23 12:55 PM | 6.16   | NTU   |
| APCO- BY-AP-MW-19H | COND      | Conductivity                  | 4/24/23 4:36 PM  | 133.83 | uS/cm |
| APCO- BY-AP-MW-19H | DO        | DO                            | 4/24/23 4:36 PM  | 0.06   | mg/L  |
| APCO- BY-AP-MW-19H | DTW       | Depth to Water Detail         | 4/24/23 4:36 PM  | 6.95   | ft    |
| APCO- BY-AP-MW-19H | ORP       | Oxidation Reduction Potential | 4/24/23 4:36 PM  | 15.88  | mv    |
| APCO- BY-AP-MW-19H | PH        | pH                            | 4/24/23 4:36 PM  | 5.87   | SU    |
| APCO- BY-AP-MW-19H | TEMP      | Temperature                   | 4/24/23 4:36 PM  | 20.01  | C     |
| APCO- BY-AP-MW-19H | TURB      | Turbidity                     | 4/24/23 4:36 PM  | 6.14   | NTU   |
| APCO- BY-AP-MW-19H | COND      | Conductivity                  | 4/24/23 4:41 PM  | 147.94 | uS/cm |
| APCO- BY-AP-MW-19H | DO        | DO                            | 4/24/23 4:41 PM  | 0.03   | mg/L  |
| APCO- BY-AP-MW-19H | DTW       | Depth to Water Detail         | 4/24/23 4:41 PM  | 6.95   | ft    |
| APCO- BY-AP-MW-19H | ORP       | Oxidation Reduction Potential | 4/24/23 4:41 PM  | 15.24  | mv    |
| APCO- BY-AP-MW-19H | PH        | pH                            | 4/24/23 4:41 PM  | 5.91   | SU    |
| APCO- BY-AP-MW-19H | TEMP      | Temperature                   | 4/24/23 4:41 PM  | 20.03  | C     |
| APCO- BY-AP-MW-19H | TURB      | Turbidity                     | 4/24/23 4:41 PM  | 2.19   | NTU   |
| APCO- BY-AP-MW-19H | COND      | Conductivity                  | 4/24/23 4:46 PM  | 173.34 | uS/cm |
| APCO- BY-AP-MW-19H | DO        | DO                            | 4/24/23 4:46 PM  | 0.02   | mg/L  |
| APCO- BY-AP-MW-19H | DTW       | Depth to Water Detail         | 4/24/23 4:46 PM  | 6.95   | ft    |
| APCO- BY-AP-MW-19H | ORP       | Oxidation Reduction Potential | 4/24/23 4:46 PM  | 4.23   | mv    |
| APCO- BY-AP-MW-19H | PH        | pH                            | 4/24/23 4:46 PM  | 6      | SU    |
| APCO- BY-AP-MW-19H | TEMP      | Temperature                   | 4/24/23 4:46 PM  | 20.04  | C     |
| APCO- BY-AP-MW-19H | TURB      | Turbidity                     | 4/24/23 4:46 PM  | 3.99   | NTU   |
| APCO- BY-AP-MW-19H | COND      | Conductivity                  | 4/24/23 4:51 PM  | 201.76 | uS/cm |
| APCO- BY-AP-MW-19H | DO        | DO                            | 4/24/23 4:51 PM  | 0.02   | mg/L  |
| APCO- BY-AP-MW-19H | DTW       | Depth to Water Detail         | 4/24/23 4:51 PM  | 6.95   | ft    |
| APCO- BY-AP-MW-19H | ORP       | Oxidation Reduction Potential | 4/24/23 4:51 PM  | -8.98  | mv    |
| APCO- BY-AP-MW-19H | PH        | pH                            | 4/24/23 4:51 PM  | 6.08   | SU    |
| APCO- BY-AP-MW-19H | TEMP      | Temperature                   | 4/24/23 4:51 PM  | 20.05  | C     |
| APCO- BY-AP-MW-19H | TURB      | Turbidity                     | 4/24/23 4:51 PM  | 2.84   | NTU   |
| APCO- BY-AP-MW-19H | COND      | Conductivity                  | 4/24/23 4:56 PM  | 239.37 | uS/cm |
| APCO- BY-AP-MW-19H | DO        | DO                            | 4/24/23 4:56 PM  | 0.02   | mg/L  |
| APCO- BY-AP-MW-19H | DTW       | Depth to Water Detail         | 4/24/23 4:56 PM  | 6.95   | ft    |

Plant Barry Ash Pond  
Field Parameter Summary

| WELL ID            | PARAMETER | DESCRIPTION                   | TIME OF READING | VALUE  | UNIT  |
|--------------------|-----------|-------------------------------|-----------------|--------|-------|
| APCO- BY-AP-MW-19H | ORP       | Oxidation Reduction Potential | 4/24/23 4:56 PM | -21.81 | mv    |
| APCO- BY-AP-MW-19H | PH        | pH                            | 4/24/23 4:56 PM | 6.15   | SU    |
| APCO- BY-AP-MW-19H | TEMP      | Temperature                   | 4/24/23 4:56 PM | 20.06  | C     |
| APCO- BY-AP-MW-19H | TURB      | Turbidity                     | 4/24/23 4:56 PM | 1.25   | NTU   |
| APCO- BY-AP-MW-19H | COND      | Conductivity                  | 4/24/23 5:01 PM | 263.76 | uS/cm |
| APCO- BY-AP-MW-19H | DO        | DO                            | 4/24/23 5:01 PM | 0.03   | mg/L  |
| APCO- BY-AP-MW-19H | DTW       | Depth to Water Detail         | 4/24/23 5:01 PM | 6.95   | ft    |
| APCO- BY-AP-MW-19H | ORP       | Oxidation Reduction Potential | 4/24/23 5:01 PM | -33.08 | mv    |
| APCO- BY-AP-MW-19H | PH        | pH                            | 4/24/23 5:01 PM | 6.21   | SU    |
| APCO- BY-AP-MW-19H | TEMP      | Temperature                   | 4/24/23 5:01 PM | 20.04  | C     |
| APCO- BY-AP-MW-19H | TURB      | Turbidity                     | 4/24/23 5:01 PM | 1.45   | NTU   |
| APCO- BY-AP-MW-19H | COND      | Conductivity                  | 4/24/23 5:06 PM | 290.62 | uS/cm |
| APCO- BY-AP-MW-19H | DO        | DO                            | 4/24/23 5:06 PM | 0.02   | mg/L  |
| APCO- BY-AP-MW-19H | DTW       | Depth to Water Detail         | 4/24/23 5:06 PM | 6.95   | ft    |
| APCO- BY-AP-MW-19H | ORP       | Oxidation Reduction Potential | 4/24/23 5:06 PM | -41.61 | mv    |
| APCO- BY-AP-MW-19H | PH        | pH                            | 4/24/23 5:06 PM | 6.26   | SU    |
| APCO- BY-AP-MW-19H | TEMP      | Temperature                   | 4/24/23 5:06 PM | 20.06  | C     |
| APCO- BY-AP-MW-19H | TURB      | Turbidity                     | 4/24/23 5:06 PM | 1.28   | NTU   |
| APCO- BY-AP-MW-19H | COND      | Conductivity                  | 4/24/23 5:11 PM | 310.58 | uS/cm |
| APCO- BY-AP-MW-19H | DO        | DO                            | 4/24/23 5:11 PM | 0.03   | mg/L  |
| APCO- BY-AP-MW-19H | DTW       | Depth to Water Detail         | 4/24/23 5:11 PM | 6.95   | ft    |
| APCO- BY-AP-MW-19H | ORP       | Oxidation Reduction Potential | 4/24/23 5:11 PM | -48.35 | mv    |
| APCO- BY-AP-MW-19H | PH        | pH                            | 4/24/23 5:11 PM | 6.28   | SU    |
| APCO- BY-AP-MW-19H | TEMP      | Temperature                   | 4/24/23 5:11 PM | 20.05  | C     |
| APCO- BY-AP-MW-19H | TURB      | Turbidity                     | 4/24/23 5:11 PM | 1.15   | NTU   |
| APCO- BY-AP-MW-19H | COND      | Conductivity                  | 4/24/23 5:16 PM | 334.61 | uS/cm |
| APCO- BY-AP-MW-19H | DO        | DO                            | 4/24/23 5:16 PM | 0.02   | mg/L  |
| APCO- BY-AP-MW-19H | DTW       | Depth to Water Detail         | 4/24/23 5:16 PM | 6.95   | ft    |
| APCO- BY-AP-MW-19H | ORP       | Oxidation Reduction Potential | 4/24/23 5:16 PM | -53.88 | mv    |
| APCO- BY-AP-MW-19H | PH        | pH                            | 4/24/23 5:16 PM | 6.3    | SU    |
| APCO- BY-AP-MW-19H | TEMP      | Temperature                   | 4/24/23 5:16 PM | 20.05  | C     |
| APCO- BY-AP-MW-19H | TURB      | Turbidity                     | 4/24/23 5:16 PM | 1.43   | NTU   |
| APCO- BY-AP-MW-19H | COND      | Conductivity                  | 4/24/23 5:21 PM | 352.84 | uS/cm |
| APCO- BY-AP-MW-19H | DO        | DO                            | 4/24/23 5:21 PM | 0.02   | mg/L  |
| APCO- BY-AP-MW-19H | DTW       | Depth to Water Detail         | 4/24/23 5:21 PM | 6.95   | ft    |
| APCO- BY-AP-MW-19H | ORP       | Oxidation Reduction Potential | 4/24/23 5:21 PM | -58.32 | mv    |
| APCO- BY-AP-MW-19H | PH        | pH                            | 4/24/23 5:21 PM | 6.31   | SU    |
| APCO- BY-AP-MW-19H | TEMP      | Temperature                   | 4/24/23 5:21 PM | 20.05  | C     |
| APCO- BY-AP-MW-19H | TURB      | Turbidity                     | 4/24/23 5:21 PM | 1.3    | NTU   |
| APCO- BY-AP-MW-19H | COND      | Conductivity                  | 4/24/23 5:26 PM | 372.08 | uS/cm |
| APCO- BY-AP-MW-19H | DO        | DO                            | 4/24/23 5:26 PM | 0.02   | mg/L  |
| APCO- BY-AP-MW-19H | DTW       | Depth to Water Detail         | 4/24/23 5:26 PM | 6.95   | ft    |
| APCO- BY-AP-MW-19H | ORP       | Oxidation Reduction Potential | 4/24/23 5:26 PM | -62.17 | mv    |
| APCO- BY-AP-MW-19H | PH        | pH                            | 4/24/23 5:26 PM | 6.32   | SU    |
| APCO- BY-AP-MW-19H | TEMP      | Temperature                   | 4/24/23 5:26 PM | 20.05  | C     |
| APCO- BY-AP-MW-19H | TURB      | Turbidity                     | 4/24/23 5:26 PM | 1.23   | NTU   |
| APCO- BY-AP-MW-19H | COND      | Conductivity                  | 4/24/23 5:31 PM | 384.6  | uS/cm |
| APCO- BY-AP-MW-19H | DO        | DO                            | 4/24/23 5:31 PM | 0.02   | mg/L  |
| APCO- BY-AP-MW-19H | DTW       | Depth to Water Detail         | 4/24/23 5:31 PM | 6.95   | ft    |
| APCO- BY-AP-MW-19H | ORP       | Oxidation Reduction Potential | 4/24/23 5:31 PM | -65.42 | mv    |
| APCO- BY-AP-MW-19H | PH        | pH                            | 4/24/23 5:31 PM | 6.33   | SU    |
| APCO- BY-AP-MW-19H | TEMP      | Temperature                   | 4/24/23 5:31 PM | 20.05  | C     |
| APCO- BY-AP-MW-19H | TURB      | Turbidity                     | 4/24/23 5:31 PM | 1.5    | NTU   |
| APCO- BY-AP-MW-19H | COND      | Conductivity                  | 4/24/23 5:36 PM | 405.7  | uS/cm |
| APCO- BY-AP-MW-19H | DO        | DO                            | 4/24/23 5:36 PM | 0.02   | mg/L  |
| APCO- BY-AP-MW-19H | DTW       | Depth to Water Detail         | 4/24/23 5:36 PM | 6.95   | ft    |
| APCO- BY-AP-MW-19H | ORP       | Oxidation Reduction Potential | 4/24/23 5:36 PM | -68.31 | mv    |
| APCO- BY-AP-MW-19H | PH        | pH                            | 4/24/23 5:36 PM | 6.34   | SU    |
| APCO- BY-AP-MW-19H | TEMP      | Temperature                   | 4/24/23 5:36 PM | 20.05  | C     |
| APCO- BY-AP-MW-19H | TURB      | Turbidity                     | 4/24/23 5:36 PM | 1.43   | NTU   |

Plant Barry Ash Pond  
Field Parameter Summary

| WELL ID            | PARAMETER | DESCRIPTION                   | TIME OF READING | VALUE  | UNIT  |
|--------------------|-----------|-------------------------------|-----------------|--------|-------|
| APCO- BY-AP-MW-19H | COND      | Conductivity                  | 4/24/23 5:41 PM | 414.85 | uS/cm |
| APCO- BY-AP-MW-19H | DO        | DO                            | 4/24/23 5:41 PM | 0.02   | mg/L  |
| APCO- BY-AP-MW-19H | DTW       | Depth to Water Detail         | 4/24/23 5:41 PM | 6.95   | ft    |
| APCO- BY-AP-MW-19H | ORP       | Oxidation Reduction Potential | 4/24/23 5:41 PM | -70.93 | mv    |
| APCO- BY-AP-MW-19H | PH        | pH                            | 4/24/23 5:41 PM | 6.34   | SU    |
| APCO- BY-AP-MW-19H | TEMP      | Temperature                   | 4/24/23 5:41 PM | 20.05  | C     |
| APCO- BY-AP-MW-19H | TURB      | Turbidity                     | 4/24/23 5:41 PM | 0.77   | NTU   |
| APCO- BY-AP-MW-19H | COND      | Conductivity                  | 4/24/23 5:46 PM | 430.32 | uS/cm |
| APCO- BY-AP-MW-19H | DO        | DO                            | 4/24/23 5:46 PM | 0.02   | mg/L  |
| APCO- BY-AP-MW-19H | DTW       | Depth to Water Detail         | 4/24/23 5:46 PM | 6.95   | ft    |
| APCO- BY-AP-MW-19H | ORP       | Oxidation Reduction Potential | 4/24/23 5:46 PM | -72.86 | mv    |
| APCO- BY-AP-MW-19H | PH        | pH                            | 4/24/23 5:46 PM | 6.34   | SU    |
| APCO- BY-AP-MW-19H | TEMP      | Temperature                   | 4/24/23 5:46 PM | 20.05  | C     |
| APCO- BY-AP-MW-19H | TURB      | Turbidity                     | 4/24/23 5:46 PM | 0.85   | NTU   |
| APCO- BY-AP-MW-19H | COND      | Conductivity                  | 4/24/23 5:51 PM | 435.36 | uS/cm |
| APCO- BY-AP-MW-19H | DO        | DO                            | 4/24/23 5:51 PM | 0.02   | mg/L  |
| APCO- BY-AP-MW-19H | DTW       | Depth to Water Detail         | 4/24/23 5:51 PM | 6.95   | ft    |
| APCO- BY-AP-MW-19H | ORP       | Oxidation Reduction Potential | 4/24/23 5:51 PM | -75.26 | mv    |
| APCO- BY-AP-MW-19H | PH        | pH                            | 4/24/23 5:51 PM | 6.35   | SU    |
| APCO- BY-AP-MW-19H | SULFIDE   | Sulfide                       | 4/24/23 5:51 PM | 0      | mg/L  |
| APCO- BY-AP-MW-19H | TEMP      | Temperature                   | 4/24/23 5:51 PM | 20.04  | C     |
| APCO- BY-AP-MW-19H | TURB      | Turbidity                     | 4/24/23 5:51 PM | 0.9    | NTU   |



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

# *Analytical Report*



**Sample Group :** WMWBARPU\_1406

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

May 08, 2023

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on April 14, 2023. All results reported herein conform to the laboratory's most current Quality Assurance Manual. Results marked with an asterisk conform to the most current applicable TNI/NELAC requirements. Exceptions will be noted in the body of the report.

Laboratory certification ID: E571114  
Issued By: State of Florida, Department of Health  
Expiration: June 30, 2023

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

Sincerely,

Quality Control: **Brooke  
Caton**

Digitally signed by Brooke  
Caton  
Date: 2023.05.08  
15:00:53 -05'00'

Supervision: **T Durant  
Maske**

Digitally signed by T Durant Maske  
DN: cn=T Durant Maske, gn=T Durant Maske, c=US  
United States, i=US United States  
e=t.durante@southernco.com  
Reason: I am the author of this document  
Location:  
Date: 2023-05-09 07:47:06-00



### 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\_1406

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> |
|------------------|-----------------|-------------------|
| BD07411          | 752636          | WMWBARPU_1406     |
| BD07412          | 752636          | WMWBARPU_1406     |
| BD07413          | 752636          | WMWBARPU_1406     |
| BD07414          | 752636          | WMWBARPU_1406     |
| BD07415          | 752636          | WMWBARPU_1406     |
| BD07416          | 752636          | WMWBARPU_1406     |
| BD07417          | 752636          | WMWBARPU_1406     |

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.
  - A matrix spike and matrix spike duplicate were digested and 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.

Dissolved Metals ICP

Barry Pooled Upgradient

WMWBARPU\_1406

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> |
|------------------|-----------------|-------------------|
| BD07411          | 752618          | WMWBARPU_1406     |
| BD07412          | 752618          | WMWBARPU_1406     |
| BD07413          | 752618          | WMWBARPU_1406     |
| BD07414          | 752618          | WMWBARPU_1406     |
| BD07415          | 752618          | WMWBARPU_1406     |

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:

Revision 5

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

- A matrix spike and matrix spike duplicate were 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\_1406

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> |
|------------------|-----------------|-------------------|
| BD07411          | 753293          | WMWBARPU_1406     |
| BD07412          | 753293          | WMWBARPU_1406     |
| BD07413          | 753293          | WMWBARPU_1406     |
| BD07414          | 753293          | WMWBARPU_1406     |
| BD07415          | 753293          | WMWBARPU_1406     |
| BD07416          | 753293          | WMWBARPU_1406     |
| BD07417          | 753293          | WMWBARPU_1406     |

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\_1406

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> |
|------------------|-----------------|-------------------|
| BD07411          | 753322          | WMWBARPU_1406     |
| BD07412          | 753322          | WMWBARPU_1406     |
| BD07413          | 753322          | WMWBARPU_1406     |
| BD07414          | 753322          | WMWBARPU_1406     |
| BD07415          | 753322          | WMWBARPU_1406     |

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\_1406

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> |
|------------------|-----------------|-------------------|
| BD07411          | 753077          | WMWBARPU_1406     |
| BD07412          | 753077          | WMWBARPU_1406     |
| BD07413          | 753077          | WMWBARPU_1406     |
| BD07414          | 753077          | WMWBARPU_1406     |
| BD07415          | 753077          | WMWBARPU_1406     |
| BD07416          | 753077          | WMWBARPU_1406     |
| BD07417          | 753077          | WMWBARPU_1406     |

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.

Revision 5

- 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.

Total Dissolved Solids

Barry Pooled Upgradient

WMWBARPU\_1406

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> |
|------------------|-----------------|-------------------|
| BD07411          | 752520          | WMWBARPU_1406     |
| BD07412          | 752520          | WMWBARPU_1406     |
| BD07413          | 752520          | WMWBARPU_1406     |
| BD07414          | 752520          | WMWBARPU_1406     |
| BD07415          | 752520          | WMWBARPU_1406     |
| BD07416          | 752520          | WMWBARPU_1406     |
| BD07417          | 752520          | WMWBARPU_1406     |

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

#### General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch, and RPD was  $\leq 10\%$ .
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue  $< 2.5\text{mg}$  had the maximum volume of 150mL filtered. Affected samples are as follows:
  - BD07415
  - BD07416
  - BD07417

## Alkalinity

Barry Pooled Upgradient

WMWBARPU\_1406

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> |
|------------------|------------------------|-------------------|
| BD07411          | 753827, 753829, 753830 | WMWBARPU_1406     |
| BD07412          | 753827, 753829, 753830 | WMWBARPU_1406     |
| BD07413          | 753827, 753829, 753830 | WMWBARPU_1406     |
| BD07414          | 753827, 753829, 753830 | WMWBARPU_1406     |
| BD07415          | 753827, 753829, 753830 | WMWBARPU_1406     |

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, except for the following:
  - BD07415 Precision is out of specification limit.



Anions

Barry Pooled Upgradient

WMWBARPU\_1406

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> |
|------------------|------------------------|-------------------|
| BD07411          | 752951, 752953, 752699 | WMWBARPU_1406     |
| BD07412          | 752951, 752953, 752699 | WMWBARPU_1406     |
| BD07413          | 752951, 752953, 752699 | WMWBARPU_1406     |
| BD07414          | 752951, 752953, 752699 | WMWBARPU_1406     |
| BD07415          | 752951, 752953, 752699 | WMWBARPU_1406     |
| BD07416          | 752951, 752953, 752699 | WMWBARPU_1406     |
| BD07417          | 752951, 752953, 752699 | WMWBARPU_1406     |

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

General Quality Control Procedures:

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

Matrix Specific Quality Control Procedures:

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

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
  - A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.
7. All samples were analyzed without dilution.

Nitrate-Nitrite

Barry Pooled Upgradient

WMWBARPU\_1406

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> |
|------------------|-----------------|-------------------|
| BD07411          | 752617          | WMWBARPU_1406     |
| BD07412          | 752617          | WMWBARPU_1406     |
| BD07413          | 752617          | WMWBARPU_1406     |
| BD07414          | 752617          | WMWBARPU_1406     |
| BD07415          | 752617          | WMWBARPU_1406     |
| BD07416          | 752617          | WMWBARPU_1406     |
| BD07417          | 752617          | WMWBARPU_1406     |

4. All of the above samples were prepared and analyzed for NO<sub>x</sub> by EPA 353.2.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

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

#### EPA 353.2 Specific QC:

- Prior to sample analysis, Cadmium coil reduction efficiency check met criteria.
- Matrix Specific QC:
  - A sample duplicate was run and criteria for precision was met.
  - A matrix spike was run and criteria for accuracy was met.
- 7. All samples were analyzed without a dilution factor.
- 8. The raw data results are shown with dilution factors included.

Total Organic Carbon

Barry Pooled Upgradient

WMWBARPU\_1406

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> |
|------------------|-----------------|-------------------|
| BD07411          | 752565          | WMWBARPU_1406     |
| BD07412          | 752565          | WMWBARPU_1406     |
| BD07413          | 752565          | WMWBARPU_1406     |
| BD07414          | 752565          | WMWBARPU_1406     |
| BD07415          | 752565          | WMWBARPU_1406     |
| BD07416          | 752565          | WMWBARPU_1406     |
| BD07417          | 752565          | WMWBARPU_1406     |

4. All of the above samples were prepared and analyzed by Standard Method 5310B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- All calibration criteria were met.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was <1/2RL.
- All continued calibration verifications (CCVs) were within the acceptance range.
- All continued calibration blanks (CCBs) were <1/2RL.

#### Matrix Specific Quality Control Procedures:

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

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

# Certificate Of Analysis

**Description:** Barry Pooled Upgradient - MW-4

**Location Code:** WMWBARPU  
**Collected:** 4/12/23 09:51  
**Customer ID:**  
**Submittal Date:** 4/14/23 10:53

**Laboratory ID Number:** BD07411

| Name                                | Prepared      | Analyzed            | Vio Spec | DF    | Results                             | Units | MDL      | RL         | Q |  |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| <b>Analytical Method: EPA 200.7</b> |               | <b>Analyst: ABB</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |  |
| * Boron, Total                      | 4/17/23 11:50 | 4/19/23 10:55       |          | 1.015 | Not Detected                        | mg/L  | 0.030000 | 0.1015     | U |  |
| * Calcium, Total                    | 4/17/23 11:50 | 4/19/23 10:55       |          | 1.015 | 1.76                                | mg/L  | 0.070035 | 0.406      |   |  |
| * Iron, Total                       | 4/17/23 11:50 | 4/19/23 10:55       |          | 1.015 | 0.0726                              | mg/L  | 0.008120 | 0.0406     |   |  |
| * Lithium, Total                    | 4/17/23 11:50 | 4/19/23 10:55       |          | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |  |
| * Magnesium, Total                  | 4/17/23 11:50 | 4/19/23 10:55       |          | 1.015 | 1.94                                | mg/L  | 0.021315 | 0.406      |   |  |
| * Molybdenum, Total                 | 4/17/23 11:50 | 4/19/23 10:55       |          | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |  |
| * Silica, Total (calc.)             | 4/17/23 11:50 | 4/19/23 10:55       |          | 1     | 9.05                                | mg/L  |          |            |   |  |
| * Silicon, Total                    | 4/17/23 11:50 | 4/19/23 10:55       |          | 1.015 | 4.23                                | mg/L  | 0.02030  | 0.25375    |   |  |
| * Sodium, Total                     | 4/17/23 11:50 | 4/19/23 10:55       |          | 1.015 | 2.61                                | mg/L  | 0.04060  | 0.406      |   |  |
| <b>Analytical Method: EPA 200.7</b> |               | <b>Analyst: ABB</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |  |
| * Boron, Dissolved                  | 4/17/23 09:38 | 4/19/23 10:20       |          | 1.015 | Not Detected                        | mg/L  | 0.030000 | 0.1015     | U |  |
| * Calcium, Dissolved                | 4/17/23 09:38 | 4/19/23 10:20       |          | 1.015 | 1.75                                | mg/L  | 0.070035 | 0.406      |   |  |
| * Iron, Dissolved                   | 4/17/23 09:38 | 4/19/23 10:20       |          | 1.015 | Not Detected                        | mg/L  | 0.008120 | 0.0406     | U |  |
| * Lithium, Dissolved                | 4/17/23 09:38 | 4/19/23 10:20       |          | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |  |
| * Magnesium, Dissolved              | 4/17/23 09:38 | 4/19/23 10:20       |          | 1.015 | 1.93                                | mg/L  | 0.021315 | 0.406      |   |  |
| * Molybdenum, Dissolved             | 4/17/23 09:38 | 4/19/23 10:20       |          | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |  |
| * Silica, Dissolved (calc.)         | 4/17/23 09:38 | 4/19/23 10:20       |          | 1     | 8.73                                | mg/L  |          |            |   |  |
| * Silicon, Dissolved                | 4/17/23 09:38 | 4/19/23 10:20       |          | 1.015 | 4.08                                | mg/L  | 0.02030  | 0.25375    |   |  |
| * Sodium, Dissolved                 | 4/17/23 09:38 | 4/19/23 10:20       |          | 1.015 | 2.62                                | mg/L  | 0.04060  | 0.406      |   |  |
| <b>Analytical Method: EPA 200.8</b> |               | <b>Analyst: DLJ</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |  |
| * Antimony, Total                   | 4/17/23 11:50 | 4/17/23 13:02       |          | 1.015 | Not Detected                        | mg/L  | 0.000710 | 0.001015   | U |  |
| * Aluminum, Total                   | 4/17/23 11:50 | 4/17/23 13:02       |          | 1.015 | 0.154                               | mg/L  | 0.009135 | 0.05075    |   |  |
| * Arsenic, Total                    | 4/17/23 11:50 | 4/17/23 13:02       |          | 1.015 | 0.000114                            | mg/L  | 0.000112 | 0.000203   | J |  |
| * Barium, Total                     | 4/17/23 11:50 | 4/17/23 13:02       |          | 1.015 | 0.116                               | mg/L  | 0.000508 | 0.001015   |   |  |
| * Beryllium, Total                  | 4/17/23 11:50 | 4/17/23 13:02       |          | 1.015 | Not Detected                        | mg/L  | 0.000406 | 0.001015   | U |  |
| * Cadmium, Total                    | 4/17/23 11:50 | 4/17/23 13:02       |          | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |  |
| * Chromium, Total                   | 4/17/23 11:50 | 4/17/23 13:02       |          | 1.015 | 0.00128                             | mg/L  | 0.000203 | 0.001015   |   |  |
| * Cobalt, Total                     | 4/17/23 11:50 | 4/17/23 13:02       |          | 1.015 | 0.00127                             | mg/L  | 0.000068 | 0.000203   |   |  |
| * Lead, Total                       | 4/17/23 11:50 | 4/17/23 13:02       |          | 1.015 | 0.0000865                           | mg/L  | 0.000068 | 0.000203   | J |  |
| * Manganese, Total                  | 4/17/23 11:50 | 4/17/23 13:02       |          | 1.015 | 0.0159                              | mg/L  | 0.000152 | 0.001015   |   |  |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Pooled Upgradient - MW-4

**Location Code:** WMWBARPU  
**Collected:** 4/12/23 09:51  
**Customer ID:**  
**Submittal Date:** 4/14/23 10:53

**Laboratory ID Number:** BD07411

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/17/23 11:50 | 4/17/23 13:02       |          | 1.015 | 0.944        | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/17/23 11:50 | 4/17/23 13:02       |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/17/23 11:50 | 4/17/23 13:02       |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/17/23 09:38 | 4/17/23 09:57       |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/17/23 09:38 | 4/17/23 09:57       |          | 1.015 | 0.0275       | mg/L       | 0.009135 | 0.05075  | J |
| * Arsenic, Dissolved                   | 4/17/23 09:38 | 4/17/23 09:57       |          | 1.015 | Not Detected | mg/L       | 0.000112 | 0.000203 | U |
| * Barium, Dissolved                    | 4/17/23 09:38 | 4/17/23 09:57       |          | 1.015 | 0.115        | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/17/23 09:38 | 4/17/23 09:57       |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/17/23 09:38 | 4/17/23 09:57       |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/17/23 09:38 | 4/17/23 09:57       |          | 1.015 | 0.000911     | mg/L       | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved                    | 4/17/23 09:38 | 4/17/23 09:57       |          | 1.015 | 0.00125      | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/17/23 09:38 | 4/17/23 09:57       |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/17/23 09:38 | 4/17/23 09:57       |          | 1.015 | 0.0158       | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/17/23 09:38 | 4/17/23 09:57       |          | 1.015 | 0.961        | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/17/23 09:38 | 4/17/23 09:57       |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/17/23 09:38 | 4/17/23 09:57       |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/20/23 18:26 | 4/21/23 01:12       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/17/23 15:23 | 4/17/23 15:23       |          | 1     | 2.09         | mg/L as N  | 0.20     | 0.3      |   |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/25/23 10:52 | 4/25/23 11:47       |          | 1     | 1.20         | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/14/23 13:40 | 4/17/23 13:45       |          | 1     | 32.0         | mg/L       |          | 25       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/25/23 10:52 | 4/25/23 11:47       |          | 1     | 1.20         | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 4/25/23 10:52 | 4/25/23 11:47       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/17/23 17:28 | 4/17/23 17:28       |          | 1     | Not Detected | mg/L       | 1.00     | 2        | U |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Pooled Upgradient - MW-4

**Location Code:** WMWBARPU

**Collected:** 4/12/23 09:51

**Customer ID:**

**Submittal Date:** 4/14/23 10:53

**Laboratory ID Number:** BD07411

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results      | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|--------------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: JCC</b> |          |    |              |       |      |       |    |
| * Chloride                                   | 4/19/23 11:44 | 4/19/23 11:44       |          | 1  | 3.42         | mg/L  | 0.50 | 1     |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: JCC</b> |          |    |              |       |      |       |    |
| * Fluoride                                   | 4/19/23 12:57 | 4/19/23 12:57       |          | 1  | Not Detected | mg/L  | 0.06 | 0.125 | U  |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |              |       |      |       |    |
| * Sulfate                                    | 4/18/23 09:47 | 4/18/23 09:47       |          | 1  | 5.93         | mg/L  | 0.6  | 2     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: TJD</b> |          |    |              |       |      |       |    |
| Conductivity                                 | 4/12/23 09:47 | 4/12/23 09:47       |          |    | 57.67        | uS/cm |      |       | FA |
| pH   | 4/12/23 09:47 | 4/12/23 09:47       |          |    | 4.73         | SU    |      |       | FA |
| Temperature                                  | 4/12/23 09:47 | 4/12/23 09:47       |          |    | 20.79        | C     |      |       | FA |
| Turbidity                                    | 4/12/23 09:47 | 4/12/23 09:47       |          |    | 4.96         | NTU   |      |       | FA |
| Sulfide                                      | 4/12/23 09:47 | 4/12/23 09:47       |          |    | 0            | mg/L  |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWBARPU  
**Sample Date:** 4/12/23 09:51  
**Customer ID:**  
**Delivery Date:** 4/14/23 10:53

**Description:** Barry Pooled Upgradient - MW-4

**Laboratory ID Number:** BD07411

| Sample  | Analysis             | Units | MB         | MB       |       |        |        | Standard |                 | Rec  |             |       | Prec Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|------------|
|         |                      |       |            | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec  | Limit       | Prec  |            |
| BD07415 | Aluminum, Dissolved  | mg/L  | -0.000203  | 0.0198   | 0.100 | 0.152  | 0.153  | 0.101    | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 0.656 | 20.0       |
| BD07417 | Aluminum, Total      | mg/L  | 0.000313   | 0.0198   | 0.100 | 0.0965 | 0.0975 | 0.0986   | 0.0850 to 0.115 | 96.5 | 70.0 to 130 | 1.03  | 20.0       |
| BD07415 | Antimony, Dissolved  | mg/L  | 0.000286   | 0.00100  | 0.100 | 0.0904 | 0.0930 | 0.0926   | 0.0850 to 0.115 | 90.4 | 70.0 to 130 | 2.84  | 20.0       |
| BD07417 | Antimony, Total      | mg/L  | 0.000390   | 0.00100  | 0.100 | 0.0912 | 0.0914 | 0.0889   | 0.0850 to 0.115 | 91.2 | 70.0 to 130 | 0.219 | 20.0       |
| BD07415 | Arsenic, Dissolved   | mg/L  | 0.0000131  | 0.000200 | 0.100 | 0.0991 | 0.0998 | 0.100    | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 0.704 | 20.0       |
| BD07417 | Arsenic, Total       | mg/L  | 0.0000162  | 0.000200 | 0.100 | 0.0986 | 0.0999 | 0.100    | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 1.31  | 20.0       |
| BD07415 | Barium, Dissolved    | mg/L  | 0.0000409  | 0.00100  | 0.100 | 0.178  | 0.178  | 0.0981   | 0.0850 to 0.115 | 97.9 | 70.0 to 130 | 0.00  | 20.0       |
| BD07417 | Barium, Total        | mg/L  | 0.0000205  | 0.00100  | 0.100 | 0.0983 | 0.101  | 0.104    | 0.0850 to 0.115 | 98.3 | 70.0 to 130 | 2.71  | 20.0       |
| BD07415 | Beryllium, Dissolved | mg/L  | 0.0000340  | 0.000880 | 0.100 | 0.0970 | 0.101  | 0.100    | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 4.04  | 20.0       |
| BD07417 | Beryllium, Total     | mg/L  | 0.0000276  | 0.000880 | 0.100 | 0.101  | 0.101  | 0.0988   | 0.0850 to 0.115 | 101  | 70.0 to 130 | 0.00  | 20.0       |
| BD07415 | Boron, Dissolved     | mg/L  | -0.000211  | 0.0650   | 1.00  | 1.05   | 1.06   | 1.02     | 0.850 to 1.15   | 100  | 70.0 to 130 | 0.948 | 20.0       |
| BD07417 | Boron, Total         | mg/L  | -0.000030  | 0.0650   | 1.00  | 0.997  | 0.992  | 1.01     | 0.850 to 1.15   | 99.7 | 70.0 to 130 | 0.503 | 20.0       |
| BD07415 | Cadmium, Dissolved   | mg/L  | -0.0000003 | 0.000147 | 0.100 | 0.100  | 0.102  | 0.101    | 0.0850 to 0.115 | 100  | 70.0 to 130 | 1.98  | 20.0       |
| BD07417 | Cadmium, Total       | mg/L  | 0.0000025  | 0.000147 | 0.100 | 0.0972 | 0.0983 | 0.101    | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 1.13  | 20.0       |
| BD07415 | Calcium, Dissolved   | mg/L  | -0.00525   | 0.152    | 5.00  | 5.80   | 5.94   | 4.91     | 4.25 to 5.75    | 95.4 | 70.0 to 130 | 2.39  | 20.0       |
| BD07417 | Calcium, Total       | mg/L  | -0.00628   | 0.152    | 5.00  | 5.00   | 4.88   | 4.94     | 4.25 to 5.75    | 100  | 70.0 to 130 | 2.43  | 20.0       |
| BD07417 | Chloride             | mg/L  | 0.0658     | 1.00     | 10.0  | 11.1   | 11.2   | 11.0     | 9.00 to 11.0    | 111  | 80.0 to 120 | 0.897 | 20.0       |
| BD07415 | Chromium, Dissolved  | mg/L  | -0.0000139 | 0.000440 | 0.100 | 0.101  | 0.101  | 0.102    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 0.00  | 20.0       |
| BD07417 | Chromium, Total      | mg/L  | -0.0000146 | 0.000440 | 0.100 | 0.0964 | 0.0994 | 0.101    | 0.0850 to 0.115 | 96.4 | 70.0 to 130 | 3.06  | 20.0       |
| BD07415 | Cobalt, Dissolved    | mg/L  | -0.0000973 | 0.000147 | 0.100 | 0.106  | 0.107  | 0.104    | 0.0850 to 0.115 | 102  | 70.0 to 130 | 0.939 | 20.0       |
| BD07417 | Cobalt, Total        | mg/L  | -0.0000965 | 0.000147 | 0.100 | 0.0988 | 0.100  | 0.103    | 0.0850 to 0.115 | 98.8 | 70.0 to 130 | 1.21  | 20.0       |
| BD07417 | Fluoride             | mg/L  | 0.0394     | 0.125    | 2.50  | 2.57   | 2.64   | 2.58     | 2.25 to 2.75    | 103  | 80.0 to 120 | 2.69  | 20.0       |
| BD07415 | Iron, Dissolved      | mg/L  | 0.00271    | 0.0176   | 0.2   | 3.84   | 3.84   | 0.202    | 0.170 to 0.230  | 90.0 | 70.0 to 130 | 0.00  | 20.0       |
| BD07417 | Iron, Total          | mg/L  | 0.000031   | 0.0176   | 0.2   | 0.198  | 0.197  | 0.199    | 0.170 to 0.230  | 99.0 | 70.0 to 130 | 0.506 | 20.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARPU  
**Sample Date:** 4/12/23 09:51  
**Customer ID:**  
**Delivery Date:** 4/14/23 10:53

**Description:** Barry Pooled Upgradient - MW-4

**Laboratory ID Number:** BD07411

| Sample  | Analysis               | Units | MB        |          | Spike | MS      | MSD     | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB        | Limit    |       |         |         | Standard | Limit              | Rec  | Limit       |       |       |
| BD07415 | Lead, Dissolved        | mg/L  | 0.000064  | 0.000147 | 0.100 | 0.102   | 0.102   | 0.105    | 0.0850 to 0.115    | 102  | 70.0 to 130 | 0.00  | 20.0  |
| BD07417 | Lead, Total            | mg/L  | 0.0000071 | 0.000147 | 0.100 | 0.103   | 0.105   | 0.104    | 0.0850 to 0.115    | 103  | 70.0 to 130 | 1.92  | 20.0  |
| BD07415 | Lithium, Dissolved     | mg/L  | 0.00066   | 0.0154   | 0.200 | 0.200   | 0.198   | 0.196    | 0.170 to 0.230     | 100  | 70.0 to 130 | 1.01  | 20.0  |
| BD07417 | Lithium, Total         | mg/L  | 0.00114   | 0.0154   | 0.200 | 0.193   | 0.195   | 0.196    | 0.170 to 0.230     | 96.5 | 70.0 to 130 | 1.03  | 20.0  |
| BD07415 | Magnesium, Dissolved   | mg/L  | 0.00859   | 0.0462   | 5.00  | 6.72    | 6.78    | 4.90     | 4.25 to 5.75       | 97.2 | 70.0 to 130 | 0.889 | 20.0  |
| BD07417 | Magnesium, Total       | mg/L  | 0.00979   | 0.0462   | 5.00  | 4.95    | 4.90    | 4.96     | 4.25 to 5.75       | 99.0 | 70.0 to 130 | 1.02  | 20.0  |
| BD07415 | Manganese, Dissolved   | mg/L  | 0.0000117 | 0.00033  | 0.100 | 0.241   | 0.242   | 0.105    | 0.0850 to 0.115    | 102  | 70.0 to 130 | 0.414 | 20.0  |
| BD07417 | Manganese, Total       | mg/L  | 0.0000023 | 0.00033  | 0.100 | 0.0994  | 0.101   | 0.104    | 0.0850 to 0.115    | 99.4 | 70.0 to 130 | 1.60  | 20.0  |
| BD07415 | Mercury, Total by CVAA | mg/L  | 0.000     | 0.000500 | 0.004 | 0.00396 | 0.00398 | 0.00393  | 0.00340 to 0.00460 | 99.0 | 70.0 to 130 | 0.504 | 20.0  |
| BD07415 | Molybdenum, Dissolved  | mg/L  | 0.00135   | 0.0100   | 0.2   | 0.197   | 0.199   | 0.199    | 0.170 to 0.230     | 98.5 | 70.0 to 130 | 1.01  | 20.0  |
| BD07417 | Molybdenum, Total      | mg/L  | 0.001     | 0.0100   | 0.2   | 0.196   | 0.196   | 0.197    | 0.170 to 0.230     | 98.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD07415 | Potassium, Dissolved   | mg/L  | 0.00156   | 0.367    | 10.0  | 10.2    | 10.3    | 9.98     | 8.50 to 11.5       | 97.2 | 70.0 to 130 | 0.976 | 20.0  |
| BD07417 | Potassium, Total       | mg/L  | -0.00118  | 0.367    | 10.0  | 9.67    | 9.73    | 9.93     | 8.50 to 11.5       | 96.7 | 70.0 to 130 | 0.619 | 20.0  |
| BD07415 | Selenium, Dissolved    | mg/L  | 0.0000755 | 0.00100  | 0.100 | 0.102   | 0.103   | 0.102    | 0.0850 to 0.115    | 102  | 70.0 to 130 | 0.976 | 20.0  |
| BD07417 | Selenium, Total        | mg/L  | 0.0000695 | 0.00100  | 0.100 | 0.100   | 0.100   | 0.101    | 0.0850 to 0.115    | 100  | 70.0 to 130 | 0.00  | 20.0  |
| BD07415 | Silicon, Dissolved     | mg/L  | -0.000488 | 0.0440   | 1.00  | 4.25    | 4.26    | 1.02     | 0.850 to 1.15      | 99.0 | 70.0 to 130 | 0.235 | 20.0  |
| BD07417 | Silicon, Total         | mg/L  | -0.000143 | 0.0440   | 1.00  | 1.01    | 1.00    | 1.01     | 0.850 to 1.15      | 101  | 70.0 to 130 | 0.995 | 20.0  |
| BD07415 | Sodium, Dissolved      | mg/L  | -0.000111 | 0.0880   | 5.00  | 6.73    | 6.68    | 4.86     | 4.25 to 5.75       | 96.2 | 70.0 to 130 | 0.746 | 20.0  |
| BD07417 | Sodium, Total          | mg/L  | -0.00109  | 0.0880   | 5.00  | 4.78    | 4.81    | 4.88     | 4.25 to 5.75       | 95.6 | 70.0 to 130 | 0.626 | 20.0  |
| BD07417 | Sulfate                | mg/L  | 0.130     | 2.0      | 20.0  | 22.4    | 22.5    | 21.5     | 18.0 to 22.0       | 112  | 80.0 to 120 | 0.445 | 20.0  |
| BD07415 | Thallium, Dissolved    | mg/L  | -0.000112 | 0.000147 | 0.100 | 0.102   | 0.100   | 0.105    | 0.0850 to 0.115    | 102  | 70.0 to 130 | 1.98  | 20.0  |
| BD07417 | Thallium, Total        | mg/L  | -0.000111 | 0.000147 | 0.100 | 0.0987  | 0.103   | 0.101    | 0.0850 to 0.115    | 98.7 | 70.0 to 130 | 4.26  | 20.0  |
| BD07417 | Total Organic Carbon   | mg/L  | 0.120     | 1.00     | 10.0  | 10.4    | 10.3    | 25.3     |                    | 104  | 80.0 to 120 | 0.966 | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWBARPU  
**Sample Date:** 4/12/23 09:51  
**Customer ID:**  
**Delivery Date:** 4/14/23 10:53

**Description:** Barry Pooled Upgradient - MW-4

**Laboratory ID Number:** BD07411

| Sample  | Analysis                  | Units      | MB    | MB Limit | Spike | MS   | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit   | Prec | Prec Limit |
|---------|---------------------------|------------|-------|----------|-------|------|------------------|----------|----------------|-----|-------------|------|------------|
| BD07415 | Alkalinity to pH 4.5      | mg CaCO3/L |       |          |       |      | 5.60             | 52.04    | 45.0 to 55.0   |     |             | 26.6 | 10.0       |
| BD07417 | Nitrogen, Nitrate/Nitrite | mg/L as N  | -0.04 | 0.200    | 2.00  | 2.10 | -0.055           | 2.09     | 1.80 to 2.20   | 105 | 90.0 to 110 | 0.00 | 15.0       |
| BD07415 | Solids, Dissolved         | mg/L       | 1.00  | 25.0     |       |      | 22.0             | 55.0     | 40.0 to 60.0   |     |             | 0.00 | 10.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Pooled Upgradient - MW-4 Dup

**Location Code:** WMWBARPU  
**Collected:** 4/12/23 09:51  
**Customer ID:**  
**Submittal Date:** 4/14/23 10:53

**Laboratory ID Number:** BD07412

| Name                                | Prepared      | Analyzed            | Vio Spec | DF    | Results                             | Units | MDL      | RL         | Q |  |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| <b>Analytical Method: EPA 200.7</b> |               | <b>Analyst: ABB</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |  |
| * Boron, Total                      | 4/17/23 11:50 | 4/19/23 10:58       |          | 1.015 | Not Detected                        | mg/L  | 0.030000 | 0.1015     | U |  |
| * Calcium, Total                    | 4/17/23 11:50 | 4/19/23 10:58       |          | 1.015 | 1.76                                | mg/L  | 0.070035 | 0.406      |   |  |
| * Iron, Total                       | 4/17/23 11:50 | 4/19/23 10:58       |          | 1.015 | 0.0749                              | mg/L  | 0.008120 | 0.0406     |   |  |
| * Lithium, Total                    | 4/17/23 11:50 | 4/19/23 10:58       |          | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |  |
| * Magnesium, Total                  | 4/17/23 11:50 | 4/19/23 10:58       |          | 1.015 | 1.94                                | mg/L  | 0.021315 | 0.406      |   |  |
| * Molybdenum, Total                 | 4/17/23 11:50 | 4/19/23 10:58       |          | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |  |
| * Silica, Total (calc.)             | 4/17/23 11:50 | 4/19/23 10:58       |          | 1     | 9.03                                | mg/L  |          |            |   |  |
| * Silicon, Total                    | 4/17/23 11:50 | 4/19/23 10:58       |          | 1.015 | 4.22                                | mg/L  | 0.02030  | 0.25375    |   |  |
| * Sodium, Total                     | 4/17/23 11:50 | 4/19/23 10:58       |          | 1.015 | 2.62                                | mg/L  | 0.04060  | 0.406      |   |  |
| <b>Analytical Method: EPA 200.7</b> |               | <b>Analyst: ABB</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |  |
| * Boron, Dissolved                  | 4/17/23 09:38 | 4/19/23 10:24       |          | 1.015 | Not Detected                        | mg/L  | 0.030000 | 0.1015     | U |  |
| * Calcium, Dissolved                | 4/17/23 09:38 | 4/19/23 10:24       |          | 1.015 | 1.77                                | mg/L  | 0.070035 | 0.406      |   |  |
| * Iron, Dissolved                   | 4/17/23 09:38 | 4/19/23 10:24       |          | 1.015 | Not Detected                        | mg/L  | 0.008120 | 0.0406     | U |  |
| * Lithium, Dissolved                | 4/17/23 09:38 | 4/19/23 10:24       |          | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |  |
| * Magnesium, Dissolved              | 4/17/23 09:38 | 4/19/23 10:24       |          | 1.015 | 1.93                                | mg/L  | 0.021315 | 0.406      |   |  |
| * Molybdenum, Dissolved             | 4/17/23 09:38 | 4/19/23 10:24       |          | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |  |
| * Silica, Dissolved (calc.)         | 4/17/23 09:38 | 4/19/23 10:24       |          | 1     | 8.88                                | mg/L  |          |            |   |  |
| * Silicon, Dissolved                | 4/17/23 09:38 | 4/19/23 10:24       |          | 1.015 | 4.15                                | mg/L  | 0.02030  | 0.25375    |   |  |
| * Sodium, Dissolved                 | 4/17/23 09:38 | 4/19/23 10:24       |          | 1.015 | 2.62                                | mg/L  | 0.04060  | 0.406      |   |  |
| <b>Analytical Method: EPA 200.8</b> |               | <b>Analyst: DLJ</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |  |
| * Antimony, Total                   | 4/17/23 11:50 | 4/17/23 13:05       |          | 1.015 | Not Detected                        | mg/L  | 0.000710 | 0.001015   | U |  |
| * Aluminum, Total                   | 4/17/23 11:50 | 4/17/23 13:05       |          | 1.015 | 0.153                               | mg/L  | 0.009135 | 0.05075    |   |  |
| * Arsenic, Total                    | 4/17/23 11:50 | 4/17/23 13:05       |          | 1.015 | 0.000121                            | mg/L  | 0.000112 | 0.000203   | J |  |
| * Barium, Total                     | 4/17/23 11:50 | 4/17/23 13:05       |          | 1.015 | 0.117                               | mg/L  | 0.000508 | 0.001015   |   |  |
| * Beryllium, Total                  | 4/17/23 11:50 | 4/17/23 13:05       |          | 1.015 | Not Detected                        | mg/L  | 0.000406 | 0.001015   | U |  |
| * Cadmium, Total                    | 4/17/23 11:50 | 4/17/23 13:05       |          | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |  |
| * Chromium, Total                   | 4/17/23 11:50 | 4/17/23 13:05       |          | 1.015 | 0.00126                             | mg/L  | 0.000203 | 0.001015   |   |  |
| * Cobalt, Total                     | 4/17/23 11:50 | 4/17/23 13:05       |          | 1.015 | 0.00124                             | mg/L  | 0.000068 | 0.000203   |   |  |
| * Lead, Total                       | 4/17/23 11:50 | 4/17/23 13:05       |          | 1.015 | 0.0000978                           | mg/L  | 0.000068 | 0.000203   | J |  |
| * Manganese, Total                  | 4/17/23 11:50 | 4/17/23 13:05       |          | 1.015 | 0.0154                              | mg/L  | 0.000152 | 0.001015   |   |  |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Pooled Upgradient - MW-4 Dup

**Location Code:** WMWBARPU  
**Collected:** 4/12/23 09:51  
**Customer ID:**  
**Submittal Date:** 4/14/23 10:53

**Laboratory ID Number:** BD07412

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/17/23 11:50 | 4/17/23 13:05       |          | 1.015 | 0.968        | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/17/23 11:50 | 4/17/23 13:05       |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/17/23 11:50 | 4/17/23 13:05       |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/17/23 09:38 | 4/17/23 10:00       |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/17/23 09:38 | 4/17/23 10:00       |          | 1.015 | 0.0284       | mg/L       | 0.009135 | 0.05075  | J |
| * Arsenic, Dissolved                   | 4/17/23 09:38 | 4/17/23 10:00       |          | 1.015 | Not Detected | mg/L       | 0.000112 | 0.000203 | U |
| * Barium, Dissolved                    | 4/17/23 09:38 | 4/17/23 10:00       |          | 1.015 | 0.115        | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/17/23 09:38 | 4/17/23 10:00       |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/17/23 09:38 | 4/17/23 10:00       |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/17/23 09:38 | 4/17/23 10:00       |          | 1.015 | 0.000936     | mg/L       | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved                    | 4/17/23 09:38 | 4/17/23 10:00       |          | 1.015 | 0.00124      | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/17/23 09:38 | 4/17/23 10:00       |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/17/23 09:38 | 4/17/23 10:00       |          | 1.015 | 0.0158       | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/17/23 09:38 | 4/17/23 10:00       |          | 1.015 | 0.975        | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/17/23 09:38 | 4/17/23 10:00       |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/17/23 09:38 | 4/17/23 10:00       |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/20/23 18:26 | 4/21/23 01:16       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/17/23 15:25 | 4/17/23 15:25       |          | 1     | 2.11         | mg/L as N  | 0.20     | 0.3      |   |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/25/23 10:52 | 4/25/23 11:47       |          | 1     | 2.60         | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/14/23 13:40 | 4/17/23 13:45       |          | 1     | 32.7         | mg/L       |          | 25       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/25/23 10:52 | 4/25/23 11:47       |          | 1     | 2.60         | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 4/25/23 10:52 | 4/25/23 11:47       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/17/23 17:42 | 4/17/23 17:42       |          | 1     | Not Detected | mg/L       | 1.00     | 2        | U |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Pooled Upgradient - MW-4 Dup

**Location Code:** WMWBARPU  
**Collected:** 4/12/23 09:51  
**Customer ID:**  
**Submittal Date:** 4/14/23 10:53

**Laboratory ID Number:** BD07412

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results      | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|--------------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: JCC</b> |          |    |              |       |      |       |    |
| * Chloride                                   | 4/19/23 11:45 | 4/19/23 11:45       |          | 1  | 3.39         | mg/L  | 0.50 | 1     |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: JCC</b> |          |    |              |       |      |       |    |
| * Fluoride                                   | 4/19/23 12:58 | 4/19/23 12:58       |          | 1  | Not Detected | mg/L  | 0.06 | 0.125 | U  |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |              |       |      |       |    |
| * Sulfate                                    | 4/18/23 09:48 | 4/18/23 09:48       |          | 1  | 5.92         | mg/L  | 0.6  | 2     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: TJD</b> |          |    |              |       |      |       |    |
| Conductivity                                 | 4/12/23 09:47 | 4/12/23 09:47       |          |    | 57.67        | uS/cm |      |       | FA |
| pH   | 4/12/23 09:47 | 4/12/23 09:47       |          |    | 4.73         | SU    |      |       | FA |
| Temperature                                  | 4/12/23 09:47 | 4/12/23 09:47       |          |    | 20.79        | C     |      |       | FA |
| Turbidity                                    | 4/12/23 09:47 | 4/12/23 09:47       |          |    | 4.96         | NTU   |      |       | FA |
| Sulfide                                      | 4/12/23 09:47 | 4/12/23 09:47       |          |    | 0            | mg/L  |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARPU  
**Sample Date:** 4/12/23 09:51  
**Customer ID:**  
**Delivery Date:** 4/14/23 10:53

**Description:** Barry Pooled Upgradient - MW-4 Dup

**Laboratory ID Number:** BD07412

| Sample  | Analysis             | Units | MB         | MB       |       |        |        | Standard |                 | Rec  |             |       | Prec Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|------------|
|         |                      |       |            | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec  | Limit       | Prec  |            |
| BD07415 | Aluminum, Dissolved  | mg/L  | -0.000203  | 0.0198   | 0.100 | 0.152  | 0.153  | 0.101    | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 0.656 | 20.0       |
| BD07417 | Aluminum, Total      | mg/L  | 0.000313   | 0.0198   | 0.100 | 0.0965 | 0.0975 | 0.0986   | 0.0850 to 0.115 | 96.5 | 70.0 to 130 | 1.03  | 20.0       |
| BD07415 | Antimony, Dissolved  | mg/L  | 0.000286   | 0.00100  | 0.100 | 0.0904 | 0.0930 | 0.0926   | 0.0850 to 0.115 | 90.4 | 70.0 to 130 | 2.84  | 20.0       |
| BD07417 | Antimony, Total      | mg/L  | 0.000390   | 0.00100  | 0.100 | 0.0912 | 0.0914 | 0.0889   | 0.0850 to 0.115 | 91.2 | 70.0 to 130 | 0.219 | 20.0       |
| BD07415 | Arsenic, Dissolved   | mg/L  | 0.0000131  | 0.000200 | 0.100 | 0.0991 | 0.0998 | 0.100    | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 0.704 | 20.0       |
| BD07417 | Arsenic, Total       | mg/L  | 0.0000162  | 0.000200 | 0.100 | 0.0986 | 0.0999 | 0.100    | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 1.31  | 20.0       |
| BD07415 | Barium, Dissolved    | mg/L  | 0.0000409  | 0.00100  | 0.100 | 0.178  | 0.178  | 0.0981   | 0.0850 to 0.115 | 97.9 | 70.0 to 130 | 0.00  | 20.0       |
| BD07417 | Barium, Total        | mg/L  | 0.0000205  | 0.00100  | 0.100 | 0.0983 | 0.101  | 0.104    | 0.0850 to 0.115 | 98.3 | 70.0 to 130 | 2.71  | 20.0       |
| BD07415 | Beryllium, Dissolved | mg/L  | 0.0000340  | 0.000880 | 0.100 | 0.0970 | 0.101  | 0.100    | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 4.04  | 20.0       |
| BD07417 | Beryllium, Total     | mg/L  | 0.0000276  | 0.000880 | 0.100 | 0.101  | 0.101  | 0.0988   | 0.0850 to 0.115 | 101  | 70.0 to 130 | 0.00  | 20.0       |
| BD07415 | Boron, Dissolved     | mg/L  | -0.000211  | 0.0650   | 1.00  | 1.05   | 1.06   | 1.02     | 0.850 to 1.15   | 100  | 70.0 to 130 | 0.948 | 20.0       |
| BD07417 | Boron, Total         | mg/L  | -0.000030  | 0.0650   | 1.00  | 0.997  | 0.992  | 1.01     | 0.850 to 1.15   | 99.7 | 70.0 to 130 | 0.503 | 20.0       |
| BD07415 | Cadmium, Dissolved   | mg/L  | -0.0000003 | 0.000147 | 0.100 | 0.100  | 0.102  | 0.101    | 0.0850 to 0.115 | 100  | 70.0 to 130 | 1.98  | 20.0       |
| BD07417 | Cadmium, Total       | mg/L  | 0.0000025  | 0.000147 | 0.100 | 0.0972 | 0.0983 | 0.101    | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 1.13  | 20.0       |
| BD07415 | Calcium, Dissolved   | mg/L  | -0.00525   | 0.152    | 5.00  | 5.80   | 5.94   | 4.91     | 4.25 to 5.75    | 95.4 | 70.0 to 130 | 2.39  | 20.0       |
| BD07417 | Calcium, Total       | mg/L  | -0.00628   | 0.152    | 5.00  | 5.00   | 4.88   | 4.94     | 4.25 to 5.75    | 100  | 70.0 to 130 | 2.43  | 20.0       |
| BD07417 | Chloride             | mg/L  | 0.0658     | 1.00     | 10.0  | 11.1   | 11.2   | 11.0     | 9.00 to 11.0    | 111  | 80.0 to 120 | 0.897 | 20.0       |
| BD07415 | Chromium, Dissolved  | mg/L  | -0.0000139 | 0.000440 | 0.100 | 0.101  | 0.101  | 0.102    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 0.00  | 20.0       |
| BD07417 | Chromium, Total      | mg/L  | -0.0000146 | 0.000440 | 0.100 | 0.0964 | 0.0994 | 0.101    | 0.0850 to 0.115 | 96.4 | 70.0 to 130 | 3.06  | 20.0       |
| BD07415 | Cobalt, Dissolved    | mg/L  | -0.0000973 | 0.000147 | 0.100 | 0.106  | 0.107  | 0.104    | 0.0850 to 0.115 | 102  | 70.0 to 130 | 0.939 | 20.0       |
| BD07417 | Cobalt, Total        | mg/L  | -0.0000965 | 0.000147 | 0.100 | 0.0988 | 0.100  | 0.103    | 0.0850 to 0.115 | 98.8 | 70.0 to 130 | 1.21  | 20.0       |
| BD07417 | Fluoride             | mg/L  | 0.0394     | 0.125    | 2.50  | 2.57   | 2.64   | 2.58     | 2.25 to 2.75    | 103  | 80.0 to 120 | 2.69  | 20.0       |
| BD07415 | Iron, Dissolved      | mg/L  | 0.00271    | 0.0176   | 0.2   | 3.84   | 3.84   | 0.202    | 0.170 to 0.230  | 90.0 | 70.0 to 130 | 0.00  | 20.0       |
| BD07417 | Iron, Total          | mg/L  | 0.000031   | 0.0176   | 0.2   | 0.198  | 0.197  | 0.199    | 0.170 to 0.230  | 99.0 | 70.0 to 130 | 0.506 | 20.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWBARPU  
**Sample Date:** 4/12/23 09:51  
**Customer ID:**  
**Delivery Date:** 4/14/23 10:53

**Description:** Barry Pooled Upgradient - MW-4 Dup

**Laboratory ID Number:** BD07412

| Sample  | Analysis               | Units | MB        | MB       |       |         |         | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       |           | Limit    | Spike | MS      | MSD     | Standard | Limit              | Rec  | Limit       |       |       |
| BD07415 | Lead, Dissolved        | mg/L  | 0.000064  | 0.000147 | 0.100 | 0.102   | 0.102   | 0.105    | 0.0850 to 0.115    | 102  | 70.0 to 130 | 0.00  | 20.0  |
| BD07417 | Lead, Total            | mg/L  | 0.0000071 | 0.000147 | 0.100 | 0.103   | 0.105   | 0.104    | 0.0850 to 0.115    | 103  | 70.0 to 130 | 1.92  | 20.0  |
| BD07415 | Lithium, Dissolved     | mg/L  | 0.00066   | 0.0154   | 0.200 | 0.200   | 0.198   | 0.196    | 0.170 to 0.230     | 100  | 70.0 to 130 | 1.01  | 20.0  |
| BD07417 | Lithium, Total         | mg/L  | 0.00114   | 0.0154   | 0.200 | 0.193   | 0.195   | 0.196    | 0.170 to 0.230     | 96.5 | 70.0 to 130 | 1.03  | 20.0  |
| BD07415 | Magnesium, Dissolved   | mg/L  | 0.00859   | 0.0462   | 5.00  | 6.72    | 6.78    | 4.90     | 4.25 to 5.75       | 97.2 | 70.0 to 130 | 0.889 | 20.0  |
| BD07417 | Magnesium, Total       | mg/L  | 0.00979   | 0.0462   | 5.00  | 4.95    | 4.90    | 4.96     | 4.25 to 5.75       | 99.0 | 70.0 to 130 | 1.02  | 20.0  |
| BD07415 | Manganese, Dissolved   | mg/L  | 0.0000117 | 0.00033  | 0.100 | 0.241   | 0.242   | 0.105    | 0.0850 to 0.115    | 102  | 70.0 to 130 | 0.414 | 20.0  |
| BD07417 | Manganese, Total       | mg/L  | 0.0000023 | 0.00033  | 0.100 | 0.0994  | 0.101   | 0.104    | 0.0850 to 0.115    | 99.4 | 70.0 to 130 | 1.60  | 20.0  |
| BD07415 | Mercury, Total by CVAA | mg/L  | 0.000     | 0.000500 | 0.004 | 0.00396 | 0.00398 | 0.00393  | 0.00340 to 0.00460 | 99.0 | 70.0 to 130 | 0.504 | 20.0  |
| BD07415 | Molybdenum, Dissolved  | mg/L  | 0.00135   | 0.0100   | 0.2   | 0.197   | 0.199   | 0.199    | 0.170 to 0.230     | 98.5 | 70.0 to 130 | 1.01  | 20.0  |
| BD07417 | Molybdenum, Total      | mg/L  | 0.001     | 0.0100   | 0.2   | 0.196   | 0.196   | 0.197    | 0.170 to 0.230     | 98.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD07415 | Potassium, Dissolved   | mg/L  | 0.00156   | 0.367    | 10.0  | 10.2    | 10.3    | 9.98     | 8.50 to 11.5       | 97.2 | 70.0 to 130 | 0.976 | 20.0  |
| BD07417 | Potassium, Total       | mg/L  | -0.00118  | 0.367    | 10.0  | 9.67    | 9.73    | 9.93     | 8.50 to 11.5       | 96.7 | 70.0 to 130 | 0.619 | 20.0  |
| BD07415 | Selenium, Dissolved    | mg/L  | 0.0000755 | 0.00100  | 0.100 | 0.102   | 0.103   | 0.102    | 0.0850 to 0.115    | 102  | 70.0 to 130 | 0.976 | 20.0  |
| BD07417 | Selenium, Total        | mg/L  | 0.0000695 | 0.00100  | 0.100 | 0.100   | 0.100   | 0.101    | 0.0850 to 0.115    | 100  | 70.0 to 130 | 0.00  | 20.0  |
| BD07415 | Silicon, Dissolved     | mg/L  | -0.000488 | 0.0440   | 1.00  | 4.25    | 4.26    | 1.02     | 0.850 to 1.15      | 99.0 | 70.0 to 130 | 0.235 | 20.0  |
| BD07417 | Silicon, Total         | mg/L  | -0.000143 | 0.0440   | 1.00  | 1.01    | 1.00    | 1.01     | 0.850 to 1.15      | 101  | 70.0 to 130 | 0.995 | 20.0  |
| BD07415 | Sodium, Dissolved      | mg/L  | -0.000111 | 0.0880   | 5.00  | 6.73    | 6.68    | 4.86     | 4.25 to 5.75       | 96.2 | 70.0 to 130 | 0.746 | 20.0  |
| BD07417 | Sodium, Total          | mg/L  | -0.00109  | 0.0880   | 5.00  | 4.78    | 4.81    | 4.88     | 4.25 to 5.75       | 95.6 | 70.0 to 130 | 0.626 | 20.0  |
| BD07417 | Sulfate                | mg/L  | 0.130     | 2.0      | 20.0  | 22.4    | 22.5    | 21.5     | 18.0 to 22.0       | 112  | 80.0 to 120 | 0.445 | 20.0  |
| BD07415 | Thallium, Dissolved    | mg/L  | -0.000112 | 0.000147 | 0.100 | 0.102   | 0.100   | 0.105    | 0.0850 to 0.115    | 102  | 70.0 to 130 | 1.98  | 20.0  |
| BD07417 | Thallium, Total        | mg/L  | -0.000111 | 0.000147 | 0.100 | 0.0987  | 0.103   | 0.101    | 0.0850 to 0.115    | 98.7 | 70.0 to 130 | 4.26  | 20.0  |
| BD07417 | Total Organic Carbon   | mg/L  | 0.120     | 1.00     | 10.0  | 10.4    | 10.3    | 25.3     |                    | 104  | 80.0 to 120 | 0.966 | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWBARPU

**Sample Date:** 4/12/23 09:51

**Customer ID:**

**Delivery Date:** 4/14/23 10:53

**Description:** Barry Pooled Upgradient - MW-4 Dup

**Laboratory ID Number:** BD07412

| Sample  | Analysis                  | Units      | MB    | MB<br>Limit | Spike | MS   | Sample<br>Duplicate | Standard | Standard<br>Limit | Rec | Limit       | Prec | Prec<br>Limit |
|---------|---------------------------|------------|-------|-------------|-------|------|---------------------|----------|-------------------|-----|-------------|------|---------------|
| BD07415 | Alkalinity to pH 4.5      | mg CaCO3/L |       |             |       |      | 5.60                | 52.04    | 45.0 to 55.0      |     |             | 26.6 | 10.0          |
| BD07417 | Nitrogen, Nitrate/Nitrite | mg/L as N  | -0.04 | 0.200       | 2.00  | 2.10 | -0.055              | 2.09     | 1.80 to 2.20      | 105 | 90.0 to 110 | 0.00 | 15.0          |
| BD07415 | Solids, Dissolved         | mg/L       | 1.00  | 25.0        |       |      | 22.0                | 55.0     | 40.0 to 60.0      |     |             | 0.00 | 10.0          |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Pooled Upgradient - MW-3

**Location Code:** WMWBARPU  
**Collected:** 4/12/23 11:05  
**Customer ID:**  
**Submittal Date:** 4/14/23 10:53

**Laboratory ID Number:** BD07413

| Name                                | Prepared      | Analyzed            | Vio Spec | DF    | Results                             | Units | MDL      | RL         | Q |  |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| <b>Analytical Method: EPA 200.7</b> |               | <b>Analyst: ABB</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |  |
| * Boron, Total                      | 4/17/23 11:50 | 4/19/23 11:02       |          | 1.015 | Not Detected                        | mg/L  | 0.030000 | 0.1015     | U |  |
| * Calcium, Total                    | 4/17/23 11:50 | 4/19/23 11:02       |          | 1.015 | 1.83                                | mg/L  | 0.070035 | 0.406      |   |  |
| * Iron, Total                       | 4/17/23 11:50 | 4/19/23 11:02       |          | 1.015 | 0.0691                              | mg/L  | 0.008120 | 0.0406     |   |  |
| * Lithium, Total                    | 4/17/23 11:50 | 4/19/23 11:02       |          | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |  |
| * Magnesium, Total                  | 4/17/23 11:50 | 4/19/23 11:02       |          | 1.015 | 1.85                                | mg/L  | 0.021315 | 0.406      |   |  |
| * Molybdenum, Total                 | 4/17/23 11:50 | 4/19/23 11:02       |          | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |  |
| * Silica, Total (calc.)             | 4/17/23 11:50 | 4/19/23 11:02       |          | 1     | 8.56                                | mg/L  |          |            |   |  |
| * Silicon, Total                    | 4/17/23 11:50 | 4/19/23 11:02       |          | 1.015 | 4.00                                | mg/L  | 0.02030  | 0.25375    |   |  |
| * Sodium, Total                     | 4/17/23 11:50 | 4/19/23 11:02       |          | 1.015 | 2.91                                | mg/L  | 0.04060  | 0.406      |   |  |
| <b>Analytical Method: EPA 200.7</b> |               | <b>Analyst: ABB</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |  |
| * Boron, Dissolved                  | 4/17/23 09:38 | 4/19/23 10:27       |          | 1.015 | Not Detected                        | mg/L  | 0.030000 | 0.1015     | U |  |
| * Calcium, Dissolved                | 4/17/23 09:38 | 4/19/23 10:27       |          | 1.015 | 1.88                                | mg/L  | 0.070035 | 0.406      |   |  |
| * Iron, Dissolved                   | 4/17/23 09:38 | 4/19/23 10:27       |          | 1.015 | Not Detected                        | mg/L  | 0.008120 | 0.0406     | U |  |
| * Lithium, Dissolved                | 4/17/23 09:38 | 4/19/23 10:27       |          | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |  |
| * Magnesium, Dissolved              | 4/17/23 09:38 | 4/19/23 10:27       |          | 1.015 | 1.89                                | mg/L  | 0.021315 | 0.406      |   |  |
| * Molybdenum, Dissolved             | 4/17/23 09:38 | 4/19/23 10:27       |          | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |  |
| * Silica, Dissolved (calc.)         | 4/17/23 09:38 | 4/19/23 10:27       |          | 1     | 8.47                                | mg/L  |          |            |   |  |
| * Silicon, Dissolved                | 4/17/23 09:38 | 4/19/23 10:27       |          | 1.015 | 3.96                                | mg/L  | 0.02030  | 0.25375    |   |  |
| * Sodium, Dissolved                 | 4/17/23 09:38 | 4/19/23 10:27       |          | 1.015 | 2.90                                | mg/L  | 0.04060  | 0.406      |   |  |
| <b>Analytical Method: EPA 200.8</b> |               | <b>Analyst: DLJ</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |  |
| * Antimony, Total                   | 4/17/23 11:50 | 4/17/23 13:09       |          | 1.015 | Not Detected                        | mg/L  | 0.000710 | 0.001015   | U |  |
| * Aluminum, Total                   | 4/17/23 11:50 | 4/17/23 13:09       |          | 1.015 | 0.0764                              | mg/L  | 0.009135 | 0.05075    |   |  |
| * Arsenic, Total                    | 4/17/23 11:50 | 4/17/23 13:09       |          | 1.015 | Not Detected                        | mg/L  | 0.000112 | 0.000203   | U |  |
| * Barium, Total                     | 4/17/23 11:50 | 4/17/23 13:09       |          | 1.015 | 0.0925                              | mg/L  | 0.000508 | 0.001015   |   |  |
| * Beryllium, Total                  | 4/17/23 11:50 | 4/17/23 13:09       |          | 1.015 | Not Detected                        | mg/L  | 0.000406 | 0.001015   | U |  |
| * Cadmium, Total                    | 4/17/23 11:50 | 4/17/23 13:09       |          | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |  |
| * Chromium, Total                   | 4/17/23 11:50 | 4/17/23 13:09       |          | 1.015 | 0.00138                             | mg/L  | 0.000203 | 0.001015   |   |  |
| * Cobalt, Total                     | 4/17/23 11:50 | 4/17/23 13:09       |          | 1.015 | 0.00130                             | mg/L  | 0.000068 | 0.000203   |   |  |
| * Lead, Total                       | 4/17/23 11:50 | 4/17/23 13:09       |          | 1.015 | 0.0000825                           | mg/L  | 0.000068 | 0.000203   | J |  |
| * Manganese, Total                  | 4/17/23 11:50 | 4/17/23 13:09       |          | 1.015 | 0.0189                              | mg/L  | 0.000152 | 0.001015   |   |  |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Pooled Upgradient - MW-3

**Location Code:** WMWBARPU  
**Collected:** 4/12/23 11:05  
**Customer ID:**  
**Submittal Date:** 4/14/23 10:53

**Laboratory ID Number:** BD07413

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/17/23 11:50 | 4/17/23 13:09       |          | 1.015 | 0.935        | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/17/23 11:50 | 4/17/23 13:09       |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/17/23 11:50 | 4/17/23 13:09       |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/17/23 09:38 | 4/17/23 10:04       |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/17/23 09:38 | 4/17/23 10:04       |          | 1.015 | 0.0200       | mg/L       | 0.009135 | 0.05075  | J |
| * Arsenic, Dissolved                   | 4/17/23 09:38 | 4/17/23 10:04       |          | 1.015 | Not Detected | mg/L       | 0.000112 | 0.000203 | U |
| * Barium, Dissolved                    | 4/17/23 09:38 | 4/17/23 10:04       |          | 1.015 | 0.0898       | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/17/23 09:38 | 4/17/23 10:04       |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/17/23 09:38 | 4/17/23 10:04       |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/17/23 09:38 | 4/17/23 10:04       |          | 1.015 | 0.00121      | mg/L       | 0.000203 | 0.001015 |   |
| * Cobalt, Dissolved                    | 4/17/23 09:38 | 4/17/23 10:04       |          | 1.015 | 0.00127      | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/17/23 09:38 | 4/17/23 10:04       |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/17/23 09:38 | 4/17/23 10:04       |          | 1.015 | 0.0185       | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/17/23 09:38 | 4/17/23 10:04       |          | 1.015 | 0.947        | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/17/23 09:38 | 4/17/23 10:04       |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/17/23 09:38 | 4/17/23 10:04       |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/20/23 18:26 | 4/21/23 01:20       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/17/23 15:26 | 4/17/23 15:26       |          | 1     | 1.65         | mg/L as N  | 0.20     | 0.3      |   |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/25/23 10:52 | 4/25/23 11:47       |          | 1     | 1.00         | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/14/23 13:40 | 4/17/23 13:45       |          | 1     | 30.7         | mg/L       |          | 25       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/25/23 10:52 | 4/25/23 11:47       |          | 1     | 1.00         | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 4/25/23 10:52 | 4/25/23 11:47       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/17/23 17:54 | 4/17/23 17:54       |          | 1     | Not Detected | mg/L       | 1.00     | 2        | U |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Pooled Upgradient - MW-3

**Location Code:** WMWBARPU  
**Collected:** 4/12/23 11:05  
**Customer ID:**  
**Submittal Date:** 4/14/23 10:53

**Laboratory ID Number:** BD07413

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results      | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|--------------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: JCC</b> |          |    |              |       |      |       |    |
| * Chloride                                   | 4/19/23 11:46 | 4/19/23 11:46       |          | 1  | 3.11         | mg/L  | 0.50 | 1     |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: JCC</b> |          |    |              |       |      |       |    |
| * Fluoride                                   | 4/19/23 12:59 | 4/19/23 12:59       |          | 1  | Not Detected | mg/L  | 0.06 | 0.125 | U  |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |              |       |      |       |    |
| * Sulfate                                    | 4/18/23 09:49 | 4/18/23 09:49       |          | 1  | 7.59         | mg/L  | 0.6  | 2     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: TJD</b> |          |    |              |       |      |       |    |
| Conductivity                                 | 4/12/23 11:00 | 4/12/23 11:00       |          |    | 54.29        | uS/cm |      |       | FA |
| pH   | 4/12/23 11:00 | 4/12/23 11:00       |          |    | 4.83         | SU    |      |       | FA |
| Temperature                                  | 4/12/23 11:00 | 4/12/23 11:00       |          |    | 19.52        | C     |      |       | FA |
| Turbidity                                    | 4/12/23 11:00 | 4/12/23 11:00       |          |    | 3.14         | NTU   |      |       | FA |
| Sulfide                                      | 4/12/23 11:00 | 4/12/23 11:00       |          |    | 0            | mg/L  |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARPU  
**Sample Date:** 4/12/23 11:05  
**Customer ID:**  
**Delivery Date:** 4/14/23 10:53

**Description:** Barry Pooled Upgradient - MW-3

**Laboratory ID Number:** BD07413

| Sample  | Analysis             | Units | MB         | MB       |       |        |        | Standard |                 | Rec  |             | Prec  | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
|         |                      |       |            | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec  | Limit       |       |       |
| BD07415 | Aluminum, Dissolved  | mg/L  | -0.000203  | 0.0198   | 0.100 | 0.152  | 0.153  | 0.101    | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 0.656 | 20.0  |
| BD07417 | Aluminum, Total      | mg/L  | 0.000313   | 0.0198   | 0.100 | 0.0965 | 0.0975 | 0.0986   | 0.0850 to 0.115 | 96.5 | 70.0 to 130 | 1.03  | 20.0  |
| BD07415 | Antimony, Dissolved  | mg/L  | 0.000286   | 0.00100  | 0.100 | 0.0904 | 0.0930 | 0.0926   | 0.0850 to 0.115 | 90.4 | 70.0 to 130 | 2.84  | 20.0  |
| BD07417 | Antimony, Total      | mg/L  | 0.000390   | 0.00100  | 0.100 | 0.0912 | 0.0914 | 0.0889   | 0.0850 to 0.115 | 91.2 | 70.0 to 130 | 0.219 | 20.0  |
| BD07415 | Arsenic, Dissolved   | mg/L  | 0.0000131  | 0.000200 | 0.100 | 0.0991 | 0.0998 | 0.100    | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 0.704 | 20.0  |
| BD07417 | Arsenic, Total       | mg/L  | 0.0000162  | 0.000200 | 0.100 | 0.0986 | 0.0999 | 0.100    | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 1.31  | 20.0  |
| BD07415 | Barium, Dissolved    | mg/L  | 0.0000409  | 0.00100  | 0.100 | 0.178  | 0.178  | 0.0981   | 0.0850 to 0.115 | 97.9 | 70.0 to 130 | 0.00  | 20.0  |
| BD07417 | Barium, Total        | mg/L  | 0.0000205  | 0.00100  | 0.100 | 0.0983 | 0.101  | 0.104    | 0.0850 to 0.115 | 98.3 | 70.0 to 130 | 2.71  | 20.0  |
| BD07415 | Beryllium, Dissolved | mg/L  | 0.0000340  | 0.000880 | 0.100 | 0.0970 | 0.101  | 0.100    | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 4.04  | 20.0  |
| BD07417 | Beryllium, Total     | mg/L  | 0.0000276  | 0.000880 | 0.100 | 0.101  | 0.101  | 0.0988   | 0.0850 to 0.115 | 101  | 70.0 to 130 | 0.00  | 20.0  |
| BD07415 | Boron, Dissolved     | mg/L  | -0.000211  | 0.0650   | 1.00  | 1.05   | 1.06   | 1.02     | 0.850 to 1.15   | 100  | 70.0 to 130 | 0.948 | 20.0  |
| BD07417 | Boron, Total         | mg/L  | -0.000030  | 0.0650   | 1.00  | 0.997  | 0.992  | 1.01     | 0.850 to 1.15   | 99.7 | 70.0 to 130 | 0.503 | 20.0  |
| BD07415 | Cadmium, Dissolved   | mg/L  | -0.0000003 | 0.000147 | 0.100 | 0.100  | 0.102  | 0.101    | 0.0850 to 0.115 | 100  | 70.0 to 130 | 1.98  | 20.0  |
| BD07417 | Cadmium, Total       | mg/L  | 0.0000025  | 0.000147 | 0.100 | 0.0972 | 0.0983 | 0.101    | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 1.13  | 20.0  |
| BD07415 | Calcium, Dissolved   | mg/L  | -0.00525   | 0.152    | 5.00  | 5.80   | 5.94   | 4.91     | 4.25 to 5.75    | 95.4 | 70.0 to 130 | 2.39  | 20.0  |
| BD07417 | Calcium, Total       | mg/L  | -0.00628   | 0.152    | 5.00  | 5.00   | 4.88   | 4.94     | 4.25 to 5.75    | 100  | 70.0 to 130 | 2.43  | 20.0  |
| BD07417 | Chloride             | mg/L  | 0.0658     | 1.00     | 10.0  | 11.1   | 11.2   | 11.0     | 9.00 to 11.0    | 111  | 80.0 to 120 | 0.897 | 20.0  |
| BD07415 | Chromium, Dissolved  | mg/L  | -0.0000139 | 0.000440 | 0.100 | 0.101  | 0.101  | 0.102    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 0.00  | 20.0  |
| BD07417 | Chromium, Total      | mg/L  | -0.0000146 | 0.000440 | 0.100 | 0.0964 | 0.0994 | 0.101    | 0.0850 to 0.115 | 96.4 | 70.0 to 130 | 3.06  | 20.0  |
| BD07415 | Cobalt, Dissolved    | mg/L  | -0.0000973 | 0.000147 | 0.100 | 0.106  | 0.107  | 0.104    | 0.0850 to 0.115 | 102  | 70.0 to 130 | 0.939 | 20.0  |
| BD07417 | Cobalt, Total        | mg/L  | -0.0000965 | 0.000147 | 0.100 | 0.0988 | 0.100  | 0.103    | 0.0850 to 0.115 | 98.8 | 70.0 to 130 | 1.21  | 20.0  |
| BD07417 | Fluoride             | mg/L  | 0.0394     | 0.125    | 2.50  | 2.57   | 2.64   | 2.58     | 2.25 to 2.75    | 103  | 80.0 to 120 | 2.69  | 20.0  |
| BD07415 | Iron, Dissolved      | mg/L  | 0.00271    | 0.0176   | 0.2   | 3.84   | 3.84   | 0.202    | 0.170 to 0.230  | 90.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD07417 | Iron, Total          | mg/L  | 0.000031   | 0.0176   | 0.2   | 0.198  | 0.197  | 0.199    | 0.170 to 0.230  | 99.0 | 70.0 to 130 | 0.506 | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARPU

**Sample Date:** 4/12/23 11:05

**Customer ID:**

**Delivery Date:** 4/14/23 10:53

**Description:** Barry Pooled Upgradient - MW-3

**Laboratory ID Number:** BD07413

| Sample  | Analysis               | Units | MB        |          | Spike | MS      | MSD     | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB        | Limit    |       |         |         | Standard | Limit              | Rec  | Limit       |       |       |
| BD07415 | Lead, Dissolved        | mg/L  | 0.000064  | 0.000147 | 0.100 | 0.102   | 0.102   | 0.105    | 0.0850 to 0.115    | 102  | 70.0 to 130 | 0.00  | 20.0  |
| BD07417 | Lead, Total            | mg/L  | 0.0000071 | 0.000147 | 0.100 | 0.103   | 0.105   | 0.104    | 0.0850 to 0.115    | 103  | 70.0 to 130 | 1.92  | 20.0  |
| BD07415 | Lithium, Dissolved     | mg/L  | 0.00066   | 0.0154   | 0.200 | 0.200   | 0.198   | 0.196    | 0.170 to 0.230     | 100  | 70.0 to 130 | 1.01  | 20.0  |
| BD07417 | Lithium, Total         | mg/L  | 0.00114   | 0.0154   | 0.200 | 0.193   | 0.195   | 0.196    | 0.170 to 0.230     | 96.5 | 70.0 to 130 | 1.03  | 20.0  |
| BD07415 | Magnesium, Dissolved   | mg/L  | 0.00859   | 0.0462   | 5.00  | 6.72    | 6.78    | 4.90     | 4.25 to 5.75       | 97.2 | 70.0 to 130 | 0.889 | 20.0  |
| BD07417 | Magnesium, Total       | mg/L  | 0.00979   | 0.0462   | 5.00  | 4.95    | 4.90    | 4.96     | 4.25 to 5.75       | 99.0 | 70.0 to 130 | 1.02  | 20.0  |
| BD07415 | Manganese, Dissolved   | mg/L  | 0.0000117 | 0.00033  | 0.100 | 0.241   | 0.242   | 0.105    | 0.0850 to 0.115    | 102  | 70.0 to 130 | 0.414 | 20.0  |
| BD07417 | Manganese, Total       | mg/L  | 0.0000023 | 0.00033  | 0.100 | 0.0994  | 0.101   | 0.104    | 0.0850 to 0.115    | 99.4 | 70.0 to 130 | 1.60  | 20.0  |
| BD07415 | Mercury, Total by CVAA | mg/L  | 0.000     | 0.000500 | 0.004 | 0.00396 | 0.00398 | 0.00393  | 0.00340 to 0.00460 | 99.0 | 70.0 to 130 | 0.504 | 20.0  |
| BD07415 | Molybdenum, Dissolved  | mg/L  | 0.00135   | 0.0100   | 0.2   | 0.197   | 0.199   | 0.199    | 0.170 to 0.230     | 98.5 | 70.0 to 130 | 1.01  | 20.0  |
| BD07417 | Molybdenum, Total      | mg/L  | 0.001     | 0.0100   | 0.2   | 0.196   | 0.196   | 0.197    | 0.170 to 0.230     | 98.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD07415 | Potassium, Dissolved   | mg/L  | 0.00156   | 0.367    | 10.0  | 10.2    | 10.3    | 9.98     | 8.50 to 11.5       | 97.2 | 70.0 to 130 | 0.976 | 20.0  |
| BD07417 | Potassium, Total       | mg/L  | -0.00118  | 0.367    | 10.0  | 9.67    | 9.73    | 9.93     | 8.50 to 11.5       | 96.7 | 70.0 to 130 | 0.619 | 20.0  |
| BD07415 | Selenium, Dissolved    | mg/L  | 0.0000755 | 0.00100  | 0.100 | 0.102   | 0.103   | 0.102    | 0.0850 to 0.115    | 102  | 70.0 to 130 | 0.976 | 20.0  |
| BD07417 | Selenium, Total        | mg/L  | 0.0000695 | 0.00100  | 0.100 | 0.100   | 0.100   | 0.101    | 0.0850 to 0.115    | 100  | 70.0 to 130 | 0.00  | 20.0  |
| BD07415 | Silicon, Dissolved     | mg/L  | -0.000488 | 0.0440   | 1.00  | 4.25    | 4.26    | 1.02     | 0.850 to 1.15      | 99.0 | 70.0 to 130 | 0.235 | 20.0  |
| BD07417 | Silicon, Total         | mg/L  | -0.000143 | 0.0440   | 1.00  | 1.01    | 1.00    | 1.01     | 0.850 to 1.15      | 101  | 70.0 to 130 | 0.995 | 20.0  |
| BD07415 | Sodium, Dissolved      | mg/L  | -0.000111 | 0.0880   | 5.00  | 6.73    | 6.68    | 4.86     | 4.25 to 5.75       | 96.2 | 70.0 to 130 | 0.746 | 20.0  |
| BD07417 | Sodium, Total          | mg/L  | -0.00109  | 0.0880   | 5.00  | 4.78    | 4.81    | 4.88     | 4.25 to 5.75       | 95.6 | 70.0 to 130 | 0.626 | 20.0  |
| BD07417 | Sulfate                | mg/L  | 0.130     | 2.0      | 20.0  | 22.4    | 22.5    | 21.5     | 18.0 to 22.0       | 112  | 80.0 to 120 | 0.445 | 20.0  |
| BD07415 | Thallium, Dissolved    | mg/L  | -0.000112 | 0.000147 | 0.100 | 0.102   | 0.100   | 0.105    | 0.0850 to 0.115    | 102  | 70.0 to 130 | 1.98  | 20.0  |
| BD07417 | Thallium, Total        | mg/L  | -0.000111 | 0.000147 | 0.100 | 0.0987  | 0.103   | 0.101    | 0.0850 to 0.115    | 98.7 | 70.0 to 130 | 4.26  | 20.0  |
| BD07417 | Total Organic Carbon   | mg/L  | 0.120     | 1.00     | 10.0  | 10.4    | 10.3    | 25.3     |                    | 104  | 80.0 to 120 | 0.966 | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



## Batch QC Summary

**Customer Account:** WMWBARPU  
**Sample Date:** 4/12/23 11:05  
**Customer ID:**  
**Delivery Date:** 4/14/23 10:53

**Description:** Barry Pooled Upgradient - MW-3

**Laboratory ID Number:** BD07413

| Sample  | Analysis                  | Units      | MB    | MB Limit | Spike | MS   | Sample Duplicate | Standard Standard | Standard Limit | Rec | Rec Limit   | Prec | Prec Limit |
|---------|---------------------------|------------|-------|----------|-------|------|------------------|-------------------|----------------|-----|-------------|------|------------|
| BD07415 | Alkalinity to pH 4.5      | mg CaCO3/L |       |          |       |      | 5.60             | 52.04             | 45.0 to 55.0   |     |             | 26.6 | 10.0       |
| BD07417 | Nitrogen, Nitrate/Nitrite | mg/L as N  | -0.04 | 0.200    | 2.00  | 2.10 | -0.055           | 2.09              | 1.80 to 2.20   | 105 | 90.0 to 110 | 0.00 | 15.0       |
| BD07415 | Solids, Dissolved         | mg/L       | 1.00  | 25.0     |       |      | 22.0             | 55.0              | 40.0 to 60.0   |     |             | 0.00 | 10.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Pooled Upgradient - MW-2

**Location Code:** WMWBARPU  
**Collected:** 4/12/23 12:10  
**Customer ID:**  
**Submittal Date:** 4/14/23 10:53

**Laboratory ID Number:** BD07414

| Name                                | Prepared      | Analyzed            | Vio Spec | DF    | Results                             | Units | MDL      | RL         | Q |  |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| <b>Analytical Method: EPA 200.7</b> |               | <b>Analyst: ABB</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |  |
| * Boron, Total                      | 4/17/23 11:50 | 4/19/23 11:05       |          | 1.015 | Not Detected                        | mg/L  | 0.030000 | 0.1015     | U |  |
| * Calcium, Total                    | 4/17/23 11:50 | 4/19/23 11:05       |          | 1.015 | 1.16                                | mg/L  | 0.070035 | 0.406      |   |  |
| * Iron, Total                       | 4/17/23 11:50 | 4/19/23 11:05       |          | 1.015 | 0.220                               | mg/L  | 0.008120 | 0.0406     |   |  |
| * Lithium, Total                    | 4/17/23 11:50 | 4/19/23 11:05       |          | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |  |
| * Magnesium, Total                  | 4/17/23 11:50 | 4/19/23 11:05       |          | 1.015 | 2.21                                | mg/L  | 0.021315 | 0.406      |   |  |
| * Molybdenum, Total                 | 4/17/23 11:50 | 4/19/23 11:05       |          | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |  |
| * Silica, Total (calc.)             | 4/17/23 11:50 | 4/19/23 11:05       |          | 1     | 8.54                                | mg/L  |          |            |   |  |
| * Silicon, Total                    | 4/17/23 11:50 | 4/19/23 11:05       |          | 1.015 | 3.99                                | mg/L  | 0.02030  | 0.25375    |   |  |
| * Sodium, Total                     | 4/17/23 11:50 | 4/19/23 11:05       |          | 1.015 | 2.11                                | mg/L  | 0.04060  | 0.406      |   |  |
| <b>Analytical Method: EPA 200.7</b> |               | <b>Analyst: ABB</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |  |
| * Boron, Dissolved                  | 4/17/23 09:38 | 4/19/23 10:30       |          | 1.015 | Not Detected                        | mg/L  | 0.030000 | 0.1015     | U |  |
| * Calcium, Dissolved                | 4/17/23 09:38 | 4/19/23 10:30       |          | 1.015 | 1.17                                | mg/L  | 0.070035 | 0.406      |   |  |
| * Iron, Dissolved                   | 4/17/23 09:38 | 4/19/23 10:30       |          | 1.015 | Not Detected                        | mg/L  | 0.008120 | 0.0406     | U |  |
| * Lithium, Dissolved                | 4/17/23 09:38 | 4/19/23 10:30       |          | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |  |
| * Magnesium, Dissolved              | 4/17/23 09:38 | 4/19/23 10:30       |          | 1.015 | 2.15                                | mg/L  | 0.021315 | 0.406      |   |  |
| * Molybdenum, Dissolved             | 4/17/23 09:38 | 4/19/23 10:30       |          | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |  |
| * Silica, Dissolved (calc.)         | 4/17/23 09:38 | 4/19/23 10:30       |          | 1     | 8.37                                | mg/L  |          |            |   |  |
| * Silicon, Dissolved                | 4/17/23 09:38 | 4/19/23 10:30       |          | 1.015 | 3.91                                | mg/L  | 0.02030  | 0.25375    |   |  |
| * Sodium, Dissolved                 | 4/17/23 09:38 | 4/19/23 10:30       |          | 1.015 | 2.14                                | mg/L  | 0.04060  | 0.406      |   |  |
| <b>Analytical Method: EPA 200.8</b> |               | <b>Analyst: DLJ</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |  |
| * Antimony, Total                   | 4/17/23 11:50 | 4/17/23 13:12       |          | 1.015 | Not Detected                        | mg/L  | 0.000710 | 0.001015   | U |  |
| * Aluminum, Total                   | 4/17/23 11:50 | 4/17/23 13:12       |          | 1.015 | 0.232                               | mg/L  | 0.009135 | 0.05075    |   |  |
| * Arsenic, Total                    | 4/17/23 11:50 | 4/17/23 13:12       |          | 1.015 | 0.000200                            | mg/L  | 0.000112 | 0.000203   | J |  |
| * Barium, Total                     | 4/17/23 11:50 | 4/17/23 13:12       |          | 1.015 | 0.138                               | mg/L  | 0.000508 | 0.001015   |   |  |
| * Beryllium, Total                  | 4/17/23 11:50 | 4/17/23 13:12       |          | 1.015 | 0.000416                            | mg/L  | 0.000406 | 0.001015   | J |  |
| * Cadmium, Total                    | 4/17/23 11:50 | 4/17/23 13:12       |          | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |  |
| * Chromium, Total                   | 4/17/23 11:50 | 4/17/23 13:12       |          | 1.015 | 0.00152                             | mg/L  | 0.000203 | 0.001015   |   |  |
| * Cobalt, Total                     | 4/17/23 11:50 | 4/17/23 13:12       |          | 1.015 | 0.00157                             | mg/L  | 0.000068 | 0.000203   |   |  |
| * Lead, Total                       | 4/17/23 11:50 | 4/17/23 13:12       |          | 1.015 | 0.000140                            | mg/L  | 0.000068 | 0.000203   | J |  |
| * Manganese, Total                  | 4/17/23 11:50 | 4/17/23 13:12       |          | 1.015 | 0.0216                              | mg/L  | 0.000152 | 0.001015   |   |  |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Pooled Upgradient - MW-2

**Location Code:** WMWBARPU  
**Collected:** 4/12/23 12:10  
**Customer ID:**  
**Submittal Date:** 4/14/23 10:53

**Laboratory ID Number:** BD07414

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/17/23 11:50 | 4/17/23 13:12       |          | 1.015 | 0.857        | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/17/23 11:50 | 4/17/23 13:12       |          | 1.015 | 0.000702     | mg/L       | 0.000508 | 0.001015 | J |
| * Thallium, Total                      | 4/17/23 11:50 | 4/17/23 13:12       |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/17/23 09:38 | 4/17/23 10:07       |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/17/23 09:38 | 4/17/23 10:07       |          | 1.015 | 0.0683       | mg/L       | 0.009135 | 0.05075  |   |
| * Arsenic, Dissolved                   | 4/17/23 09:38 | 4/17/23 10:07       |          | 1.015 | Not Detected | mg/L       | 0.000112 | 0.000203 | U |
| * Barium, Dissolved                    | 4/17/23 09:38 | 4/17/23 10:07       |          | 1.015 | 0.136        | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/17/23 09:38 | 4/17/23 10:07       |          | 1.015 | 0.000411     | mg/L       | 0.000406 | 0.001015 | J |
| * Cadmium, Dissolved                   | 4/17/23 09:38 | 4/17/23 10:07       |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/17/23 09:38 | 4/17/23 10:07       |          | 1.015 | 0.000946     | mg/L       | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved                    | 4/17/23 09:38 | 4/17/23 10:07       |          | 1.015 | 0.00155      | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/17/23 09:38 | 4/17/23 10:07       |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/17/23 09:38 | 4/17/23 10:07       |          | 1.015 | 0.0210       | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/17/23 09:38 | 4/17/23 10:07       |          | 1.015 | 0.860        | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/17/23 09:38 | 4/17/23 10:07       |          | 1.015 | 0.000665     | mg/L       | 0.000508 | 0.001015 | J |
| * Thallium, Dissolved                  | 4/17/23 09:38 | 4/17/23 10:07       |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/20/23 18:26 | 4/21/23 01:24       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/17/23 15:27 | 4/17/23 15:27       |          | 1     | 1.27         | mg/L as N  | 0.20     | 0.3      |   |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/25/23 10:52 | 4/25/23 11:47       |          | 1     | 2.96         | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/14/23 13:40 | 4/17/23 13:45       |          | 1     | 27.3         | mg/L       |          | 25       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/25/23 10:52 | 4/25/23 11:47       |          | 1     | 2.96         | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 4/25/23 10:52 | 4/25/23 11:47       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/17/23 18:11 | 4/17/23 18:11       |          | 1     | Not Detected | mg/L       | 1.00     | 2        | U |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Pooled Upgradient - MW-2

**Location Code:** WMWBARPU

**Collected:** 4/12/23 12:10

**Customer ID:**

**Submittal Date:** 4/14/23 10:53

**Laboratory ID Number:** BD07414

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results      | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|--------------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: JCC</b> |          |    |              |       |      |       |    |
| * Chloride                                   | 4/19/23 11:47 | 4/19/23 11:47       |          | 1  | 2.25         | mg/L  | 0.50 | 1     |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: JCC</b> |          |    |              |       |      |       |    |
| * Fluoride                                   | 4/19/23 13:00 | 4/19/23 13:00       |          | 1  | Not Detected | mg/L  | 0.06 | 0.125 | U  |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |              |       |      |       |    |
| * Sulfate                                    | 4/18/23 09:51 | 4/18/23 09:51       |          | 1  | 8.54         | mg/L  | 0.6  | 2     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: TJD</b> |          |    |              |       |      |       |    |
| Conductivity                                 | 4/12/23 12:08 | 4/12/23 12:08       |          |    | 51.68        | uS/cm |      |       | FA |
| pH   | 4/12/23 12:08 | 4/12/23 12:08       |          |    | 4.67         | SU    |      |       | FA |
| Temperature                                  | 4/12/23 12:08 | 4/12/23 12:08       |          |    | 19.45        | C     |      |       | FA |
| Turbidity                                    | 4/12/23 12:08 | 4/12/23 12:08       |          |    | 8.09         | NTU   |      |       | FA |
| Sulfide                                      | 4/12/23 12:08 | 4/12/23 12:08       |          |    | 0            | mg/L  |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARPU  
**Sample Date:** 4/12/23 12:10  
**Customer ID:**  
**Delivery Date:** 4/14/23 10:53

**Description:** Barry Pooled Upgradient - MW-2

**Laboratory ID Number:** BD07414

| Sample  | Analysis             | Units | MB         | MB       |       |        |        | Standard |                 | Rec  |             | Prec  | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
|         |                      |       |            | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec  | Limit       |       |       |
| BD07415 | Aluminum, Dissolved  | mg/L  | -0.000203  | 0.0198   | 0.100 | 0.152  | 0.153  | 0.101    | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 0.656 | 20.0  |
| BD07417 | Aluminum, Total      | mg/L  | 0.000313   | 0.0198   | 0.100 | 0.0965 | 0.0975 | 0.0986   | 0.0850 to 0.115 | 96.5 | 70.0 to 130 | 1.03  | 20.0  |
| BD07415 | Antimony, Dissolved  | mg/L  | 0.000286   | 0.00100  | 0.100 | 0.0904 | 0.0930 | 0.0926   | 0.0850 to 0.115 | 90.4 | 70.0 to 130 | 2.84  | 20.0  |
| BD07417 | Antimony, Total      | mg/L  | 0.000390   | 0.00100  | 0.100 | 0.0912 | 0.0914 | 0.0889   | 0.0850 to 0.115 | 91.2 | 70.0 to 130 | 0.219 | 20.0  |
| BD07415 | Arsenic, Dissolved   | mg/L  | 0.0000131  | 0.000200 | 0.100 | 0.0991 | 0.0998 | 0.100    | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 0.704 | 20.0  |
| BD07417 | Arsenic, Total       | mg/L  | 0.0000162  | 0.000200 | 0.100 | 0.0986 | 0.0999 | 0.100    | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 1.31  | 20.0  |
| BD07415 | Barium, Dissolved    | mg/L  | 0.0000409  | 0.00100  | 0.100 | 0.178  | 0.178  | 0.0981   | 0.0850 to 0.115 | 97.9 | 70.0 to 130 | 0.00  | 20.0  |
| BD07417 | Barium, Total        | mg/L  | 0.0000205  | 0.00100  | 0.100 | 0.0983 | 0.101  | 0.104    | 0.0850 to 0.115 | 98.3 | 70.0 to 130 | 2.71  | 20.0  |
| BD07415 | Beryllium, Dissolved | mg/L  | 0.0000340  | 0.000880 | 0.100 | 0.0970 | 0.101  | 0.100    | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 4.04  | 20.0  |
| BD07417 | Beryllium, Total     | mg/L  | 0.0000276  | 0.000880 | 0.100 | 0.101  | 0.101  | 0.0988   | 0.0850 to 0.115 | 101  | 70.0 to 130 | 0.00  | 20.0  |
| BD07415 | Boron, Dissolved     | mg/L  | -0.000211  | 0.0650   | 1.00  | 1.05   | 1.06   | 1.02     | 0.850 to 1.15   | 100  | 70.0 to 130 | 0.948 | 20.0  |
| BD07417 | Boron, Total         | mg/L  | -0.000030  | 0.0650   | 1.00  | 0.997  | 0.992  | 1.01     | 0.850 to 1.15   | 99.7 | 70.0 to 130 | 0.503 | 20.0  |
| BD07415 | Cadmium, Dissolved   | mg/L  | -0.0000003 | 0.000147 | 0.100 | 0.100  | 0.102  | 0.101    | 0.0850 to 0.115 | 100  | 70.0 to 130 | 1.98  | 20.0  |
| BD07417 | Cadmium, Total       | mg/L  | 0.0000025  | 0.000147 | 0.100 | 0.0972 | 0.0983 | 0.101    | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 1.13  | 20.0  |
| BD07415 | Calcium, Dissolved   | mg/L  | -0.00525   | 0.152    | 5.00  | 5.80   | 5.94   | 4.91     | 4.25 to 5.75    | 95.4 | 70.0 to 130 | 2.39  | 20.0  |
| BD07417 | Calcium, Total       | mg/L  | -0.00628   | 0.152    | 5.00  | 5.00   | 4.88   | 4.94     | 4.25 to 5.75    | 100  | 70.0 to 130 | 2.43  | 20.0  |
| BD07417 | Chloride             | mg/L  | 0.0658     | 1.00     | 10.0  | 11.1   | 11.2   | 11.0     | 9.00 to 11.0    | 111  | 80.0 to 120 | 0.897 | 20.0  |
| BD07415 | Chromium, Dissolved  | mg/L  | -0.0000139 | 0.000440 | 0.100 | 0.101  | 0.101  | 0.102    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 0.00  | 20.0  |
| BD07417 | Chromium, Total      | mg/L  | -0.0000146 | 0.000440 | 0.100 | 0.0964 | 0.0994 | 0.101    | 0.0850 to 0.115 | 96.4 | 70.0 to 130 | 3.06  | 20.0  |
| BD07415 | Cobalt, Dissolved    | mg/L  | -0.0000973 | 0.000147 | 0.100 | 0.106  | 0.107  | 0.104    | 0.0850 to 0.115 | 102  | 70.0 to 130 | 0.939 | 20.0  |
| BD07417 | Cobalt, Total        | mg/L  | -0.0000965 | 0.000147 | 0.100 | 0.0988 | 0.100  | 0.103    | 0.0850 to 0.115 | 98.8 | 70.0 to 130 | 1.21  | 20.0  |
| BD07417 | Fluoride             | mg/L  | 0.0394     | 0.125    | 2.50  | 2.57   | 2.64   | 2.58     | 2.25 to 2.75    | 103  | 80.0 to 120 | 2.69  | 20.0  |
| BD07415 | Iron, Dissolved      | mg/L  | 0.00271    | 0.0176   | 0.2   | 3.84   | 3.84   | 0.202    | 0.170 to 0.230  | 90.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD07417 | Iron, Total          | mg/L  | 0.000031   | 0.0176   | 0.2   | 0.198  | 0.197  | 0.199    | 0.170 to 0.230  | 99.0 | 70.0 to 130 | 0.506 | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARPU  
**Sample Date:** 4/12/23 12:10  
**Customer ID:**  
**Delivery Date:** 4/14/23 10:53

**Description:** Barry Pooled Upgradient - MW-2

**Laboratory ID Number:** BD07414

| Sample  | Analysis               | Units | MB        | MB       |       | MS      | MSD     | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       |           | Limit    | Spike |         |         | Standard | Limit              | Rec  | Limit       |       |       |
| BD07415 | Lead, Dissolved        | mg/L  | 0.000064  | 0.000147 | 0.100 | 0.102   | 0.102   | 0.105    | 0.0850 to 0.115    | 102  | 70.0 to 130 | 0.00  | 20.0  |
| BD07417 | Lead, Total            | mg/L  | 0.0000071 | 0.000147 | 0.100 | 0.103   | 0.105   | 0.104    | 0.0850 to 0.115    | 103  | 70.0 to 130 | 1.92  | 20.0  |
| BD07415 | Lithium, Dissolved     | mg/L  | 0.00066   | 0.0154   | 0.200 | 0.200   | 0.198   | 0.196    | 0.170 to 0.230     | 100  | 70.0 to 130 | 1.01  | 20.0  |
| BD07417 | Lithium, Total         | mg/L  | 0.00114   | 0.0154   | 0.200 | 0.193   | 0.195   | 0.196    | 0.170 to 0.230     | 96.5 | 70.0 to 130 | 1.03  | 20.0  |
| BD07415 | Magnesium, Dissolved   | mg/L  | 0.00859   | 0.0462   | 5.00  | 6.72    | 6.78    | 4.90     | 4.25 to 5.75       | 97.2 | 70.0 to 130 | 0.889 | 20.0  |
| BD07417 | Magnesium, Total       | mg/L  | 0.00979   | 0.0462   | 5.00  | 4.95    | 4.90    | 4.96     | 4.25 to 5.75       | 99.0 | 70.0 to 130 | 1.02  | 20.0  |
| BD07415 | Manganese, Dissolved   | mg/L  | 0.0000117 | 0.00033  | 0.100 | 0.241   | 0.242   | 0.105    | 0.0850 to 0.115    | 102  | 70.0 to 130 | 0.414 | 20.0  |
| BD07417 | Manganese, Total       | mg/L  | 0.0000023 | 0.00033  | 0.100 | 0.0994  | 0.101   | 0.104    | 0.0850 to 0.115    | 99.4 | 70.0 to 130 | 1.60  | 20.0  |
| BD07415 | Mercury, Total by CVAA | mg/L  | 0.000     | 0.000500 | 0.004 | 0.00396 | 0.00398 | 0.00393  | 0.00340 to 0.00460 | 99.0 | 70.0 to 130 | 0.504 | 20.0  |
| BD07415 | Molybdenum, Dissolved  | mg/L  | 0.00135   | 0.0100   | 0.2   | 0.197   | 0.199   | 0.199    | 0.170 to 0.230     | 98.5 | 70.0 to 130 | 1.01  | 20.0  |
| BD07417 | Molybdenum, Total      | mg/L  | 0.001     | 0.0100   | 0.2   | 0.196   | 0.196   | 0.197    | 0.170 to 0.230     | 98.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD07415 | Potassium, Dissolved   | mg/L  | 0.00156   | 0.367    | 10.0  | 10.2    | 10.3    | 9.98     | 8.50 to 11.5       | 97.2 | 70.0 to 130 | 0.976 | 20.0  |
| BD07417 | Potassium, Total       | mg/L  | -0.00118  | 0.367    | 10.0  | 9.67    | 9.73    | 9.93     | 8.50 to 11.5       | 96.7 | 70.0 to 130 | 0.619 | 20.0  |
| BD07415 | Selenium, Dissolved    | mg/L  | 0.0000755 | 0.00100  | 0.100 | 0.102   | 0.103   | 0.102    | 0.0850 to 0.115    | 102  | 70.0 to 130 | 0.976 | 20.0  |
| BD07417 | Selenium, Total        | mg/L  | 0.0000695 | 0.00100  | 0.100 | 0.100   | 0.100   | 0.101    | 0.0850 to 0.115    | 100  | 70.0 to 130 | 0.00  | 20.0  |
| BD07415 | Silicon, Dissolved     | mg/L  | -0.000488 | 0.0440   | 1.00  | 4.25    | 4.26    | 1.02     | 0.850 to 1.15      | 99.0 | 70.0 to 130 | 0.235 | 20.0  |
| BD07417 | Silicon, Total         | mg/L  | -0.000143 | 0.0440   | 1.00  | 1.01    | 1.00    | 1.01     | 0.850 to 1.15      | 101  | 70.0 to 130 | 0.995 | 20.0  |
| BD07415 | Sodium, Dissolved      | mg/L  | -0.000111 | 0.0880   | 5.00  | 6.73    | 6.68    | 4.86     | 4.25 to 5.75       | 96.2 | 70.0 to 130 | 0.746 | 20.0  |
| BD07417 | Sodium, Total          | mg/L  | -0.00109  | 0.0880   | 5.00  | 4.78    | 4.81    | 4.88     | 4.25 to 5.75       | 95.6 | 70.0 to 130 | 0.626 | 20.0  |
| BD07417 | Sulfate                | mg/L  | 0.130     | 2.0      | 20.0  | 22.4    | 22.5    | 21.5     | 18.0 to 22.0       | 112  | 80.0 to 120 | 0.445 | 20.0  |
| BD07415 | Thallium, Dissolved    | mg/L  | -0.000112 | 0.000147 | 0.100 | 0.102   | 0.100   | 0.105    | 0.0850 to 0.115    | 102  | 70.0 to 130 | 1.98  | 20.0  |
| BD07417 | Thallium, Total        | mg/L  | -0.000111 | 0.000147 | 0.100 | 0.0987  | 0.103   | 0.101    | 0.0850 to 0.115    | 98.7 | 70.0 to 130 | 4.26  | 20.0  |
| BD07417 | Total Organic Carbon   | mg/L  | 0.120     | 1.00     | 10.0  | 10.4    | 10.3    | 25.3     |                    | 104  | 80.0 to 120 | 0.966 | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWBARPU  
**Sample Date:** 4/12/23 12:10  
**Customer ID:**  
**Delivery Date:** 4/14/23 10:53

**Description:** Barry Pooled Upgradient - MW-2

**Laboratory ID Number:** BD07414

| Sample  | Analysis                  | Units      | MB    | MB Limit | Spike | MS   | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit   | Prec | Prec Limit |
|---------|---------------------------|------------|-------|----------|-------|------|------------------|----------|----------------|-----|-------------|------|------------|
| BD07415 | Alkalinity to pH 4.5      | mg CaCO3/L |       |          |       |      | 5.60             | 52.04    | 45.0 to 55.0   |     |             | 26.6 | 10.0       |
| BD07417 | Nitrogen, Nitrate/Nitrite | mg/L as N  | -0.04 | 0.200    | 2.00  | 2.10 | -0.055           | 2.09     | 1.80 to 2.20   | 105 | 90.0 to 110 | 0.00 | 15.0       |
| BD07415 | Solids, Dissolved         | mg/L       | 1.00  | 25.0     |       |      | 22.0             | 55.0     | 40.0 to 60.0   |     |             | 0.00 | 10.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Barry Pooled Upgradient - MW-1

**Location Code:** WMWBARPU  
**Collected:** 4/12/23 13:05  
**Customer ID:**  
**Submittal Date:** 4/14/23 10:53

**Laboratory ID Number:** BD07415

| Name                                | Prepared      | Analyzed            | Vio Spec | DF    | Results                             | Units | MDL      | RL         | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| <b>Analytical Method: EPA 200.7</b> |               | <b>Analyst: ABB</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Boron, Total                      | 4/17/23 11:50 | 4/19/23 11:08       |          | 1.015 | 0.0464                              | mg/L  | 0.030000 | 0.1015     | J |
| * Calcium, Total                    | 4/17/23 11:50 | 4/19/23 11:08       |          | 1.015 | 1.02                                | mg/L  | 0.070035 | 0.406      |   |
| * Iron, Total                       | 4/17/23 11:50 | 4/19/23 11:08       |          | 1.015 | 3.90                                | mg/L  | 0.008120 | 0.0406     |   |
| * Lithium, Total                    | 4/17/23 11:50 | 4/19/23 11:08       |          | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |
| * Magnesium, Total                  | 4/17/23 11:50 | 4/19/23 11:08       |          | 1.015 | 1.83                                | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Total                 | 4/17/23 11:50 | 4/19/23 11:08       |          | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Total (calc.)             | 4/17/23 11:50 | 4/19/23 11:08       |          | 1     | 6.93                                | mg/L  |          |            |   |
| * Silicon, Total                    | 4/17/23 11:50 | 4/19/23 11:08       |          | 1.015 | 3.24                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Total                     | 4/17/23 11:50 | 4/19/23 11:08       |          | 1.015 | 1.85                                | mg/L  | 0.04060  | 0.406      |   |
| <b>Analytical Method: EPA 200.7</b> |               | <b>Analyst: ABB</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Boron, Dissolved                  | 4/17/23 09:38 | 4/19/23 10:33       |          | 1.015 | 0.0469                              | mg/L  | 0.030000 | 0.1015     | J |
| * Calcium, Dissolved                | 4/17/23 09:38 | 4/19/23 10:33       |          | 1.015 | 1.03                                | mg/L  | 0.070035 | 0.406      |   |
| * Iron, Dissolved                   | 4/17/23 09:38 | 4/19/23 12:59       |          | 1.015 | 3.66                                | mg/L  | 0.008120 | 0.0406     |   |
| * Lithium, Dissolved                | 4/17/23 09:38 | 4/19/23 10:33       |          | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |
| * Magnesium, Dissolved              | 4/17/23 09:38 | 4/19/23 10:33       |          | 1.015 | 1.86                                | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Dissolved             | 4/17/23 09:38 | 4/19/23 10:33       |          | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Dissolved (calc.)         | 4/17/23 09:38 | 4/19/23 10:33       |          | 1     | 6.98                                | mg/L  |          |            |   |
| * Silicon, Dissolved                | 4/17/23 09:38 | 4/19/23 10:33       |          | 1.015 | 3.26                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Dissolved                 | 4/17/23 09:38 | 4/19/23 10:33       |          | 1.015 | 1.92                                | mg/L  | 0.04060  | 0.406      |   |
| <b>Analytical Method: EPA 200.8</b> |               | <b>Analyst: DLJ</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Antimony, Total                   | 4/17/23 11:50 | 4/17/23 13:16       |          | 1.015 | Not Detected                        | mg/L  | 0.000710 | 0.001015   | U |
| * Aluminum, Total                   | 4/17/23 11:50 | 4/17/23 13:16       |          | 1.015 | 0.0616                              | mg/L  | 0.009135 | 0.05075    |   |
| * Arsenic, Total                    | 4/17/23 11:50 | 4/17/23 13:16       |          | 1.015 | 0.000230                            | mg/L  | 0.000112 | 0.000203   |   |
| * Barium, Total                     | 4/17/23 11:50 | 4/17/23 13:16       |          | 1.015 | 0.0820                              | mg/L  | 0.000508 | 0.001015   |   |
| * Beryllium, Total                  | 4/17/23 11:50 | 4/17/23 13:16       |          | 1.015 | Not Detected                        | mg/L  | 0.000406 | 0.001015   | U |
| * Cadmium, Total                    | 4/17/23 11:50 | 4/17/23 13:16       |          | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |
| * Chromium, Total                   | 4/17/23 11:50 | 4/17/23 13:16       |          | 1.015 | 0.000215                            | mg/L  | 0.000203 | 0.001015   | J |
| * Cobalt, Total                     | 4/17/23 11:50 | 4/17/23 13:16       |          | 1.015 | 0.00398                             | mg/L  | 0.000068 | 0.000203   |   |
| * Lead, Total                       | 4/17/23 11:50 | 4/17/23 13:16       |          | 1.015 | 0.0000757                           | mg/L  | 0.000068 | 0.000203   | J |
| * Manganese, Total                  | 4/17/23 11:50 | 4/17/23 13:16       |          | 1.015 | 0.135                               | mg/L  | 0.000152 | 0.001015   |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Pooled Upgradient - MW-1

**Location Code:** WMWBARPU  
**Collected:** 4/12/23 13:05  
**Customer ID:**  
**Submittal Date:** 4/14/23 10:53

**Laboratory ID Number:** BD07415

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/17/23 11:50 | 4/17/23 13:16       |          | 1.015 | 0.474        | mg/L       | 0.169505 | 0.5075   | J |
| * Selenium, Total                      | 4/17/23 11:50 | 4/17/23 13:16       |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/17/23 11:50 | 4/17/23 13:16       |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/17/23 09:38 | 4/17/23 10:11       |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/17/23 09:38 | 4/17/23 10:11       |          | 1.015 | 0.0560       | mg/L       | 0.009135 | 0.05075  |   |
| * Arsenic, Dissolved                   | 4/17/23 09:38 | 4/17/23 10:11       |          | 1.015 | 0.000119     | mg/L       | 0.000112 | 0.000203 | J |
| * Barium, Dissolved                    | 4/17/23 09:38 | 4/17/23 10:11       |          | 1.015 | 0.0801       | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/17/23 09:38 | 4/17/23 10:11       |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/17/23 09:38 | 4/17/23 10:11       |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/17/23 09:38 | 4/17/23 10:11       |          | 1.015 | Not Detected | mg/L       | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved                    | 4/17/23 09:38 | 4/17/23 10:11       |          | 1.015 | 0.00395      | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/17/23 09:38 | 4/17/23 10:11       |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/17/23 09:38 | 4/17/23 10:11       |          | 1.015 | 0.139        | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/17/23 09:38 | 4/17/23 10:11       |          | 1.015 | 0.482        | mg/L       | 0.169505 | 0.5075   | J |
| * Selenium, Dissolved                  | 4/17/23 09:38 | 4/17/23 10:11       |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/17/23 09:38 | 4/17/23 10:11       |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/20/23 18:26 | 4/21/23 01:36       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/17/23 15:28 | 4/17/23 15:28       |          | 1     | Not Detected | mg/L as N  | 0.20     | 0.3      | U |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/25/23 10:52 | 4/25/23 11:47       |          | 1     | 7.32         | mg CaCO3/L |          | 0.10     | P |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/14/23 13:40 | 4/17/23 13:45       |          | 1     | Not Detected | mg/L       |          | 25       | U |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/25/23 10:52 | 4/25/23 11:47       |          | 1     | 7.32         | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 4/25/23 10:52 | 4/25/23 11:47       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/17/23 18:29 | 4/17/23 18:29       |          | 1     | 1.04         | mg/L       | 1.00     | 2        | J |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Pooled Upgradient - MW-1

**Location Code:** WMWBARPU

**Collected:** 4/12/23 13:05

**Customer ID:**

**Submittal Date:** 4/14/23 10:53

**Laboratory ID Number:** BD07415

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results      | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|--------------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: JCC</b> |          |    |              |       |      |       |    |
| * Chloride                                   | 4/19/23 11:48 | 4/19/23 11:48       |          | 1  | 2.31         | mg/L  | 0.50 | 1     |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: JCC</b> |          |    |              |       |      |       |    |
| * Fluoride                                   | 4/19/23 13:01 | 4/19/23 13:01       |          | 1  | Not Detected | mg/L  | 0.06 | 0.125 | U  |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |              |       |      |       |    |
| * Sulfate                                    | 4/18/23 09:52 | 4/18/23 09:52       |          | 1  | 11.8         | mg/L  | 0.6  | 2     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: TJD</b> |          |    |              |       |      |       |    |
| Conductivity                                 | 4/12/23 13:00 | 4/12/23 13:00       |          |    | 50.26        | uS/cm |      |       | FA |
| pH   | 4/12/23 13:00 | 4/12/23 13:00       |          |    | 4.77         | SU    |      |       | FA |
| Temperature                                  | 4/12/23 13:00 | 4/12/23 13:00       |          |    | 20.31        | C     |      |       | FA |
| Turbidity                                    | 4/12/23 13:00 | 4/12/23 13:00       |          |    | 2.86         | NTU   |      |       | FA |
| Sulfide                                      | 4/12/23 13:00 | 4/12/23 13:00       |          |    | 0            | mg/L  |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARPU  
**Sample Date:** 4/12/23 13:05  
**Customer ID:**  
**Delivery Date:** 4/14/23 10:53

**Description:** Barry Pooled Upgradient - MW-1

**Laboratory ID Number:** BD07415

| Sample  | Analysis             | Units | MB         | MB       |       |        |        | Standard |                 | Rec  |             | Prec  | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
|         |                      |       |            | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec  | Limit       |       |       |
| BD07415 | Aluminum, Dissolved  | mg/L  | -0.000203  | 0.0198   | 0.100 | 0.152  | 0.153  | 0.101    | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 0.656 | 20.0  |
| BD07417 | Aluminum, Total      | mg/L  | 0.000313   | 0.0198   | 0.100 | 0.0965 | 0.0975 | 0.0986   | 0.0850 to 0.115 | 96.5 | 70.0 to 130 | 1.03  | 20.0  |
| BD07415 | Antimony, Dissolved  | mg/L  | 0.000286   | 0.00100  | 0.100 | 0.0904 | 0.0930 | 0.0926   | 0.0850 to 0.115 | 90.4 | 70.0 to 130 | 2.84  | 20.0  |
| BD07417 | Antimony, Total      | mg/L  | 0.000390   | 0.00100  | 0.100 | 0.0912 | 0.0914 | 0.0889   | 0.0850 to 0.115 | 91.2 | 70.0 to 130 | 0.219 | 20.0  |
| BD07415 | Arsenic, Dissolved   | mg/L  | 0.0000131  | 0.000200 | 0.100 | 0.0991 | 0.0998 | 0.100    | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 0.704 | 20.0  |
| BD07417 | Arsenic, Total       | mg/L  | 0.0000162  | 0.000200 | 0.100 | 0.0986 | 0.0999 | 0.100    | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 1.31  | 20.0  |
| BD07415 | Barium, Dissolved    | mg/L  | 0.0000409  | 0.00100  | 0.100 | 0.178  | 0.178  | 0.0981   | 0.0850 to 0.115 | 97.9 | 70.0 to 130 | 0.00  | 20.0  |
| BD07417 | Barium, Total        | mg/L  | 0.0000205  | 0.00100  | 0.100 | 0.0983 | 0.101  | 0.104    | 0.0850 to 0.115 | 98.3 | 70.0 to 130 | 2.71  | 20.0  |
| BD07415 | Beryllium, Dissolved | mg/L  | 0.0000340  | 0.000880 | 0.100 | 0.0970 | 0.101  | 0.100    | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 4.04  | 20.0  |
| BD07417 | Beryllium, Total     | mg/L  | 0.0000276  | 0.000880 | 0.100 | 0.101  | 0.101  | 0.0988   | 0.0850 to 0.115 | 101  | 70.0 to 130 | 0.00  | 20.0  |
| BD07415 | Boron, Dissolved     | mg/L  | -0.000211  | 0.0650   | 1.00  | 1.05   | 1.06   | 1.02     | 0.850 to 1.15   | 100  | 70.0 to 130 | 0.948 | 20.0  |
| BD07417 | Boron, Total         | mg/L  | -0.000030  | 0.0650   | 1.00  | 0.997  | 0.992  | 1.01     | 0.850 to 1.15   | 99.7 | 70.0 to 130 | 0.503 | 20.0  |
| BD07415 | Cadmium, Dissolved   | mg/L  | -0.0000003 | 0.000147 | 0.100 | 0.100  | 0.102  | 0.101    | 0.0850 to 0.115 | 100  | 70.0 to 130 | 1.98  | 20.0  |
| BD07417 | Cadmium, Total       | mg/L  | 0.0000025  | 0.000147 | 0.100 | 0.0972 | 0.0983 | 0.101    | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 1.13  | 20.0  |
| BD07415 | Calcium, Dissolved   | mg/L  | -0.00525   | 0.152    | 5.00  | 5.80   | 5.94   | 4.91     | 4.25 to 5.75    | 95.4 | 70.0 to 130 | 2.39  | 20.0  |
| BD07417 | Calcium, Total       | mg/L  | -0.00628   | 0.152    | 5.00  | 5.00   | 4.88   | 4.94     | 4.25 to 5.75    | 100  | 70.0 to 130 | 2.43  | 20.0  |
| BD07417 | Chloride             | mg/L  | 0.0658     | 1.00     | 10.0  | 11.1   | 11.2   | 11.0     | 9.00 to 11.0    | 111  | 80.0 to 120 | 0.897 | 20.0  |
| BD07415 | Chromium, Dissolved  | mg/L  | -0.0000139 | 0.000440 | 0.100 | 0.101  | 0.101  | 0.102    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 0.00  | 20.0  |
| BD07417 | Chromium, Total      | mg/L  | -0.0000146 | 0.000440 | 0.100 | 0.0964 | 0.0994 | 0.101    | 0.0850 to 0.115 | 96.4 | 70.0 to 130 | 3.06  | 20.0  |
| BD07415 | Cobalt, Dissolved    | mg/L  | -0.0000973 | 0.000147 | 0.100 | 0.106  | 0.107  | 0.104    | 0.0850 to 0.115 | 102  | 70.0 to 130 | 0.939 | 20.0  |
| BD07417 | Cobalt, Total        | mg/L  | -0.0000965 | 0.000147 | 0.100 | 0.0988 | 0.100  | 0.103    | 0.0850 to 0.115 | 98.8 | 70.0 to 130 | 1.21  | 20.0  |
| BD07417 | Fluoride             | mg/L  | 0.0394     | 0.125    | 2.50  | 2.57   | 2.64   | 2.58     | 2.25 to 2.75    | 103  | 80.0 to 120 | 2.69  | 20.0  |
| BD07415 | Iron, Dissolved      | mg/L  | 0.00271    | 0.0176   | 0.2   | 3.84   | 3.84   | 0.202    | 0.170 to 0.230  | 90.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD07417 | Iron, Total          | mg/L  | 0.000031   | 0.0176   | 0.2   | 0.198  | 0.197  | 0.199    | 0.170 to 0.230  | 99.0 | 70.0 to 130 | 0.506 | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARPU  
**Sample Date:** 4/12/23 13:05  
**Customer ID:**  
**Delivery Date:** 4/14/23 10:53

**Description:** Barry Pooled Upgradient - MW-1

**Laboratory ID Number:** BD07415

| Sample  | Analysis               | Units | MB        |          | Spike | MS      | MSD     | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB        | Limit    |       |         |         | Standard | Limit              | Rec  | Limit       |       |       |
| BD07415 | Lead, Dissolved        | mg/L  | 0.000064  | 0.000147 | 0.100 | 0.102   | 0.102   | 0.105    | 0.0850 to 0.115    | 102  | 70.0 to 130 | 0.00  | 20.0  |
| BD07417 | Lead, Total            | mg/L  | 0.0000071 | 0.000147 | 0.100 | 0.103   | 0.105   | 0.104    | 0.0850 to 0.115    | 103  | 70.0 to 130 | 1.92  | 20.0  |
| BD07415 | Lithium, Dissolved     | mg/L  | 0.00066   | 0.0154   | 0.200 | 0.200   | 0.198   | 0.196    | 0.170 to 0.230     | 100  | 70.0 to 130 | 1.01  | 20.0  |
| BD07417 | Lithium, Total         | mg/L  | 0.00114   | 0.0154   | 0.200 | 0.193   | 0.195   | 0.196    | 0.170 to 0.230     | 96.5 | 70.0 to 130 | 1.03  | 20.0  |
| BD07415 | Magnesium, Dissolved   | mg/L  | 0.00859   | 0.0462   | 5.00  | 6.72    | 6.78    | 4.90     | 4.25 to 5.75       | 97.2 | 70.0 to 130 | 0.889 | 20.0  |
| BD07417 | Magnesium, Total       | mg/L  | 0.00979   | 0.0462   | 5.00  | 4.95    | 4.90    | 4.96     | 4.25 to 5.75       | 99.0 | 70.0 to 130 | 1.02  | 20.0  |
| BD07415 | Manganese, Dissolved   | mg/L  | 0.0000117 | 0.00033  | 0.100 | 0.241   | 0.242   | 0.105    | 0.0850 to 0.115    | 102  | 70.0 to 130 | 0.414 | 20.0  |
| BD07417 | Manganese, Total       | mg/L  | 0.0000023 | 0.00033  | 0.100 | 0.0994  | 0.101   | 0.104    | 0.0850 to 0.115    | 99.4 | 70.0 to 130 | 1.60  | 20.0  |
| BD07415 | Mercury, Total by CVAA | mg/L  | 0.000     | 0.000500 | 0.004 | 0.00396 | 0.00398 | 0.00393  | 0.00340 to 0.00460 | 99.0 | 70.0 to 130 | 0.504 | 20.0  |
| BD07415 | Molybdenum, Dissolved  | mg/L  | 0.00135   | 0.0100   | 0.2   | 0.197   | 0.199   | 0.199    | 0.170 to 0.230     | 98.5 | 70.0 to 130 | 1.01  | 20.0  |
| BD07417 | Molybdenum, Total      | mg/L  | 0.001     | 0.0100   | 0.2   | 0.196   | 0.196   | 0.197    | 0.170 to 0.230     | 98.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD07415 | Potassium, Dissolved   | mg/L  | 0.00156   | 0.367    | 10.0  | 10.2    | 10.3    | 9.98     | 8.50 to 11.5       | 97.2 | 70.0 to 130 | 0.976 | 20.0  |
| BD07417 | Potassium, Total       | mg/L  | -0.00118  | 0.367    | 10.0  | 9.67    | 9.73    | 9.93     | 8.50 to 11.5       | 96.7 | 70.0 to 130 | 0.619 | 20.0  |
| BD07415 | Selenium, Dissolved    | mg/L  | 0.0000755 | 0.00100  | 0.100 | 0.102   | 0.103   | 0.102    | 0.0850 to 0.115    | 102  | 70.0 to 130 | 0.976 | 20.0  |
| BD07417 | Selenium, Total        | mg/L  | 0.0000695 | 0.00100  | 0.100 | 0.100   | 0.100   | 0.101    | 0.0850 to 0.115    | 100  | 70.0 to 130 | 0.00  | 20.0  |
| BD07415 | Silicon, Dissolved     | mg/L  | -0.000488 | 0.0440   | 1.00  | 4.25    | 4.26    | 1.02     | 0.850 to 1.15      | 99.0 | 70.0 to 130 | 0.235 | 20.0  |
| BD07417 | Silicon, Total         | mg/L  | -0.000143 | 0.0440   | 1.00  | 1.01    | 1.00    | 1.01     | 0.850 to 1.15      | 101  | 70.0 to 130 | 0.995 | 20.0  |
| BD07415 | Sodium, Dissolved      | mg/L  | -0.000111 | 0.0880   | 5.00  | 6.73    | 6.68    | 4.86     | 4.25 to 5.75       | 96.2 | 70.0 to 130 | 0.746 | 20.0  |
| BD07417 | Sodium, Total          | mg/L  | -0.00109  | 0.0880   | 5.00  | 4.78    | 4.81    | 4.88     | 4.25 to 5.75       | 95.6 | 70.0 to 130 | 0.626 | 20.0  |
| BD07417 | Sulfate                | mg/L  | 0.130     | 2.0      | 20.0  | 22.4    | 22.5    | 21.5     | 18.0 to 22.0       | 112  | 80.0 to 120 | 0.445 | 20.0  |
| BD07415 | Thallium, Dissolved    | mg/L  | -0.000112 | 0.000147 | 0.100 | 0.102   | 0.100   | 0.105    | 0.0850 to 0.115    | 102  | 70.0 to 130 | 1.98  | 20.0  |
| BD07417 | Thallium, Total        | mg/L  | -0.000111 | 0.000147 | 0.100 | 0.0987  | 0.103   | 0.101    | 0.0850 to 0.115    | 98.7 | 70.0 to 130 | 4.26  | 20.0  |
| BD07417 | Total Organic Carbon   | mg/L  | 0.120     | 1.00     | 10.0  | 10.4    | 10.3    | 25.3     |                    | 104  | 80.0 to 120 | 0.966 | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWBARPU  
**Sample Date:** 4/12/23 13:05  
**Customer ID:**  
**Delivery Date:** 4/14/23 10:53

**Description:** Barry Pooled Upgradient - MW-1

**Laboratory ID Number:** BD07415

| Sample  | Analysis                  | Units      | MB    | MB Limit | Spike | MS   | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit   | Prec | Prec Limit |
|---------|---------------------------|------------|-------|----------|-------|------|------------------|----------|----------------|-----|-------------|------|------------|
| BD07415 | Alkalinity to pH 4.5      | mg CaCO3/L |       |          |       |      | 5.60             | 52.04    | 45.0 to 55.0   |     |             | 26.6 | 10.0       |
| BD07417 | Nitrogen, Nitrate/Nitrite | mg/L as N  | -0.04 | 0.200    | 2.00  | 2.10 | -0.055           | 2.09     | 1.80 to 2.20   | 105 | 90.0 to 110 | 0.00 | 15.0       |
| BD07415 | Solids, Dissolved         | mg/L       | 1.00  | 25.0     |       |      | 22.0             | 55.0     | 40.0 to 60.0   |     |             | 0.00 | 10.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Pooled Upgradient Field Blank-1

**Location Code:** WMWBARPUFB  
**Collected:** 4/12/23 13:35  
**Customer ID:**  
**Submittal Date:** 4/14/23 10:53

**Laboratory ID Number:** BD07416

| Name                                | Prepared      | Analyzed            | Vio Spec | DF    | Results                             | Units     | MDL      | RL         | Q |  |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-----------|----------|------------|---|--|
| <b>Analytical Method: EPA 200.7</b> |               | <b>Analyst: ABB</b> |          |       | <b>Preparation Method: EPA 1638</b> |           |          |            |   |  |
| * Boron, Total                      | 4/17/23 11:50 | 4/19/23 11:11       |          | 1.015 | Not Detected                        | mg/L      | 0.030000 | 0.1015     | U |  |
| * Calcium, Total                    | 4/17/23 11:50 | 4/19/23 11:11       |          | 1.015 | Not Detected                        | mg/L      | 0.070035 | 0.406      | U |  |
| * Iron, Total                       | 4/17/23 11:50 | 4/19/23 11:11       |          | 1.015 | Not Detected                        | mg/L      | 0.008120 | 0.0406     | U |  |
| * Lithium, Total                    | 4/17/23 11:50 | 4/19/23 11:11       |          | 1.015 | Not Detected                        | mg/L      | 0.007105 | 0.01999956 | U |  |
| * Magnesium, Total                  | 4/17/23 11:50 | 4/19/23 11:11       |          | 1.015 | Not Detected                        | mg/L      | 0.021315 | 0.406      | U |  |
| * Molybdenum, Total                 | 4/17/23 11:50 | 4/19/23 11:11       |          | 1.015 | Not Detected                        | mg/L      | 0.005075 | 0.01015    | U |  |
| * Silica, Total (calc.)             | 4/17/23 11:50 | 4/19/23 11:11       |          | 1     | Not Detected                        | mg/L      |          |            |   |  |
| * Silicon, Total                    | 4/17/23 11:50 | 4/19/23 11:11       |          | 1.015 | Not Detected                        | mg/L      | 0.02030  | 0.25375    | U |  |
| * Sodium, Total                     | 4/17/23 11:50 | 4/19/23 11:11       |          | 1.015 | Not Detected                        | mg/L      | 0.04060  | 0.406      | U |  |
| <b>Analytical Method: EPA 200.8</b> |               | <b>Analyst: DLJ</b> |          |       | <b>Preparation Method: EPA 1638</b> |           |          |            |   |  |
| * Antimony, Total                   | 4/17/23 11:50 | 4/17/23 13:20       |          | 1.015 | Not Detected                        | mg/L      | 0.000710 | 0.001015   | U |  |
| * Aluminum, Total                   | 4/17/23 11:50 | 4/17/23 13:20       |          | 1.015 | Not Detected                        | mg/L      | 0.009135 | 0.05075    | U |  |
| * Arsenic, Total                    | 4/17/23 11:50 | 4/17/23 13:20       |          | 1.015 | Not Detected                        | mg/L      | 0.000112 | 0.000203   | U |  |
| * Barium, Total                     | 4/17/23 11:50 | 4/17/23 13:20       |          | 1.015 | Not Detected                        | mg/L      | 0.000508 | 0.001015   | U |  |
| * Beryllium, Total                  | 4/17/23 11:50 | 4/17/23 13:20       |          | 1.015 | Not Detected                        | mg/L      | 0.000406 | 0.001015   | U |  |
| * Cadmium, Total                    | 4/17/23 11:50 | 4/17/23 13:20       |          | 1.015 | Not Detected                        | mg/L      | 0.000068 | 0.000203   | U |  |
| * Chromium, Total                   | 4/17/23 11:50 | 4/17/23 13:20       |          | 1.015 | 0.000320                            | mg/L      | 0.000203 | 0.001015   | J |  |
| * Cobalt, Total                     | 4/17/23 11:50 | 4/17/23 13:20       |          | 1.015 | Not Detected                        | mg/L      | 0.000068 | 0.000203   | U |  |
| * Lead, Total                       | 4/17/23 11:50 | 4/17/23 13:20       |          | 1.015 | Not Detected                        | mg/L      | 0.000068 | 0.000203   | U |  |
| * Manganese, Total                  | 4/17/23 11:50 | 4/17/23 13:20       |          | 1.015 | Not Detected                        | mg/L      | 0.000152 | 0.001015   | U |  |
| * Potassium, Total                  | 4/17/23 11:50 | 4/17/23 13:20       |          | 1.015 | Not Detected                        | mg/L      | 0.169505 | 0.5075     | U |  |
| * Selenium, Total                   | 4/17/23 11:50 | 4/17/23 13:20       |          | 1.015 | Not Detected                        | mg/L      | 0.000508 | 0.001015   | U |  |
| * Thallium, Total                   | 4/17/23 11:50 | 4/17/23 13:20       |          | 1.015 | Not Detected                        | mg/L      | 0.000068 | 0.000203   | U |  |
| <b>Analytical Method: EPA 245.1</b> |               | <b>Analyst: CRB</b> |          |       |                                     |           |          |            |   |  |
| * Mercury, Total by CVAA            | 4/20/23 18:26 | 4/21/23 01:28       |          | 1     | Not Detected                        | mg/L      | 0.0003   | 0.0005     | U |  |
| <b>Analytical Method: EPA 353.2</b> |               | <b>Analyst: SC</b>  |          |       |                                     |           |          |            |   |  |
| * Nitrogen, Nitrate/Nitrite         | 4/17/23 15:29 | 4/17/23 15:29       |          | 1     | Not Detected                        | mg/L as N | 0.20     | 0.3        | U |  |
| <b>Analytical Method: SM 2540C</b>  |               | <b>Analyst: CNJ</b> |          |       |                                     |           |          |            |   |  |
| * Solids, Dissolved                 | 4/14/23 13:40 | 4/17/23 13:45       |          | 1     | Not Detected                        | mg/L      |          | 25         | U |  |

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

**Comments:**



# Certificate Of Analysis

**Description:** Barry Pooled Upgradient Field Blank-1

**Location Code:** WMWBARPUFB

**Collected:** 4/12/23 13:35

**Customer ID:**

**Submittal Date:** 4/14/23 10:53

**Laboratory ID Number:** BD07416

| Name                                       | Prepared      | Analyzed            | Vio Spec | DF | Results      | Units | MDL  | RL    | Q |
|--|---------------|---------------------|----------|----|--------------|-------|------|-------|---|
| <b>Analytical Method: SM 5310 B</b>        |               | <b>Analyst: SC</b>  |          |    |              |       |      |       |   |
| * Total Organic Carbon                     | 4/17/23 18:46 | 4/17/23 18:46       |          | 1  | Not Detected | mg/L  | 1.00 | 2     | U |
| <b>Analytical Method: SM4500Cl E</b>       |               | <b>Analyst: JCC</b> |          |    |              |       |      |       |   |
| * Chloride                                 | 4/19/23 11:49 | 4/19/23 11:49       |          | 1  | Not Detected | mg/L  | 0.50 | 1     | U |
| <b>Analytical Method: SM4500F G 2017</b>   |               | <b>Analyst: JCC</b> |          |    |              |       |      |       |   |
| * Fluoride                                 | 4/19/23 13:03 | 4/19/23 13:03       |          | 1  | Not Detected | mg/L  | 0.06 | 0.125 | U |
| <b>Analytical Method: SM4500SO4 E 2011</b> |               | <b>Analyst: JCC</b> |          |    |              |       |      |       |   |
| * Sulfate                                  | 4/18/23 09:53 | 4/18/23 09:53       |          | 1  | Not Detected | mg/L  | 0.6  | 2     | U |

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

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**Comments:**

# Batch QC Summary

**Customer Account:** WMWBARPUFB

**Sample Date:** 4/12/23 13:35

**Customer ID:**

**Delivery Date:** 4/14/23 10:53

**Description:** Barry Pooled Upgradient Field Blank-1

**Laboratory ID Number:** BD07416

| Sample  | Analysis               | Units | MB         | MB       |       |         |         | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       |            | Limit    | Spike | MS      | MSD     | Standard | Limit              | Rec  | Limit       |       |       |
| BD07417 | Aluminum, Total        | mg/L  | 0.000313   | 0.0198   | 0.100 | 0.0965  | 0.0975  | 0.0986   | 0.0850 to 0.115    | 96.5 | 70.0 to 130 | 1.03  | 20.0  |
| BD07417 | Antimony, Total        | mg/L  | 0.000390   | 0.00100  | 0.100 | 0.0912  | 0.0914  | 0.0889   | 0.0850 to 0.115    | 91.2 | 70.0 to 130 | 0.219 | 20.0  |
| BD07417 | Arsenic, Total         | mg/L  | 0.0000162  | 0.000200 | 0.100 | 0.0986  | 0.0999  | 0.100    | 0.0850 to 0.115    | 98.6 | 70.0 to 130 | 1.31  | 20.0  |
| BD07417 | Barium, Total          | mg/L  | 0.0000205  | 0.00100  | 0.100 | 0.0983  | 0.101   | 0.104    | 0.0850 to 0.115    | 98.3 | 70.0 to 130 | 2.71  | 20.0  |
| BD07417 | Beryllium, Total       | mg/L  | 0.0000276  | 0.000880 | 0.100 | 0.101   | 0.101   | 0.0988   | 0.0850 to 0.115    | 101  | 70.0 to 130 | 0.00  | 20.0  |
| BD07417 | Boron, Total           | mg/L  | -0.000030  | 0.0650   | 1.00  | 0.997   | 0.992   | 1.01     | 0.850 to 1.15      | 99.7 | 70.0 to 130 | 0.503 | 20.0  |
| BD07417 | Cadmium, Total         | mg/L  | 0.0000025  | 0.000147 | 0.100 | 0.0972  | 0.0983  | 0.101    | 0.0850 to 0.115    | 97.2 | 70.0 to 130 | 1.13  | 20.0  |
| BD07417 | Calcium, Total         | mg/L  | -0.00628   | 0.152    | 5.00  | 5.00    | 4.88    | 4.94     | 4.25 to 5.75       | 100  | 70.0 to 130 | 2.43  | 20.0  |
| BD07417 | Chloride               | mg/L  | 0.0658     | 1.00     | 10.0  | 11.1    | 11.2    | 11.0     | 9.00 to 11.0       | 111  | 80.0 to 120 | 0.897 | 20.0  |
| BD07417 | Chromium, Total        | mg/L  | -0.0000146 | 0.000440 | 0.100 | 0.0964  | 0.0994  | 0.101    | 0.0850 to 0.115    | 96.4 | 70.0 to 130 | 3.06  | 20.0  |
| BD07417 | Cobalt, Total          | mg/L  | -0.0000965 | 0.000147 | 0.100 | 0.0988  | 0.100   | 0.103    | 0.0850 to 0.115    | 98.8 | 70.0 to 130 | 1.21  | 20.0  |
| BD07417 | Fluoride               | mg/L  | 0.0394     | 0.125    | 2.50  | 2.57    | 2.64    | 2.58     | 2.25 to 2.75       | 103  | 80.0 to 120 | 2.69  | 20.0  |
| BD07417 | Iron, Total            | mg/L  | 0.000031   | 0.0176   | 0.2   | 0.198   | 0.197   | 0.199    | 0.170 to 0.230     | 99.0 | 70.0 to 130 | 0.506 | 20.0  |
| BD07417 | Lead, Total            | mg/L  | 0.0000071  | 0.000147 | 0.100 | 0.103   | 0.105   | 0.104    | 0.0850 to 0.115    | 103  | 70.0 to 130 | 1.92  | 20.0  |
| BD07417 | Lithium, Total         | mg/L  | 0.00114    | 0.0154   | 0.200 | 0.193   | 0.195   | 0.196    | 0.170 to 0.230     | 96.5 | 70.0 to 130 | 1.03  | 20.0  |
| BD07417 | Magnesium, Total       | mg/L  | 0.00979    | 0.0462   | 5.00  | 4.95    | 4.90    | 4.96     | 4.25 to 5.75       | 99.0 | 70.0 to 130 | 1.02  | 20.0  |
| BD07417 | Manganese, Total       | mg/L  | 0.0000023  | 0.00033  | 0.100 | 0.0994  | 0.101   | 0.104    | 0.0850 to 0.115    | 99.4 | 70.0 to 130 | 1.60  | 20.0  |
| BD07415 | Mercury, Total by CVAA | mg/L  | 0.000      | 0.000500 | 0.004 | 0.00396 | 0.00398 | 0.00393  | 0.00340 to 0.00460 | 99.0 | 70.0 to 130 | 0.504 | 20.0  |
| BD07417 | Molybdenum, Total      | mg/L  | 0.001      | 0.0100   | 0.2   | 0.196   | 0.196   | 0.197    | 0.170 to 0.230     | 98.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD07417 | Potassium, Total       | mg/L  | -0.00118   | 0.367    | 10.0  | 9.67    | 9.73    | 9.93     | 8.50 to 11.5       | 96.7 | 70.0 to 130 | 0.619 | 20.0  |
| BD07417 | Selenium, Total        | mg/L  | 0.0000695  | 0.00100  | 0.100 | 0.100   | 0.100   | 0.101    | 0.0850 to 0.115    | 100  | 70.0 to 130 | 0.00  | 20.0  |
| BD07417 | Silicon, Total         | mg/L  | -0.000143  | 0.0440   | 1.00  | 1.01    | 1.00    | 1.01     | 0.850 to 1.15      | 101  | 70.0 to 130 | 0.995 | 20.0  |
| BD07417 | Sodium, Total          | mg/L  | -0.00109   | 0.0880   | 5.00  | 4.78    | 4.81    | 4.88     | 4.25 to 5.75       | 95.6 | 70.0 to 130 | 0.626 | 20.0  |
| BD07417 | Sulfate                | mg/L  | 0.130      | 2.0      | 20.0  | 22.4    | 22.5    | 21.5     | 18.0 to 22.0       | 112  | 80.0 to 120 | 0.445 | 20.0  |

**Comments:**

# Batch QC Summary

**Customer Account:** WMWBARPUFB

**Sample Date:** 4/12/23 13:35

**Customer ID:**

**Delivery Date:** 4/14/23 10:53

**Description:** Barry Pooled Upgradient Field Blank-1

**Laboratory ID Number:** BD07416

| Sample  | Analysis             | Units | MB        | MB       |       |        |       | Standard |                 | Rec  |             | Prec  |       |
|---------|----------------------|-------|-----------|----------|-------|--------|-------|----------|-----------------|------|-------------|-------|-------|
|         |                      |       |           | Limit    | Spike | MS     | MSD   | Standard | Limit           | Rec  | Limit       | Prec  | Limit |
| BD07417 | Thallium, Total      | mg/L  | -0.000111 | 0.000147 | 0.100 | 0.0987 | 0.103 | 0.101    | 0.0850 to 0.115 | 98.7 | 70.0 to 130 | 4.26  | 20.0  |
| BD07417 | Total Organic Carbon | mg/L  | 0.120     | 1.00     | 10.0  | 10.4   | 10.3  | 25.3     |                 | 104  | 80.0 to 120 | 0.966 | 20.0  |

**Comments:**

## Batch QC Summary

**Customer Account:** WMWBARPUFB

**Sample Date:** 4/12/23 13:35

**Customer ID:**

**Delivery Date:** 4/14/23 10:53

**Description:** Barry Pooled Upgradient Field Blank-1

**Laboratory ID Number:** BD07416

| Sample  | Analysis                  | Units     | MB    | MB<br>Limit | Spike | MS   | Sample<br>Duplicate | Standard<br>Standard | Standard<br>Limit | Rec<br>Rec | Rec<br>Limit | Prec | Prec<br>Limit |
|---------|---------------------------|-----------|-------|-------------|-------|------|---------------------|----------------------|-------------------|------------|--------------|------|---------------|
| BD07417 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.04 | 0.200       | 2.00  | 2.10 | -0.055              | 2.09                 | 1.80 to 2.20      | 105        | 90.0 to 110  | 0.00 | 15.0          |
| BD07415 | Solids, Dissolved         | mg/L      | 1.00  | 25.0        |       |      | 22.0                | 55.0                 | 40.0 to 60.0      |            |              | 0.00 | 10.0          |

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**Comments:**

# Certificate Of Analysis

**Description:** Barry Pooled Upgradient Equipment Blank-1

**Location Code:** WMWBARPUEB  
**Collected:** 4/12/23 13:45  
**Customer ID:**  
**Submittal Date:** 4/14/23 10:53

**Laboratory ID Number:** BD07417

| Name                                | Prepared      | Analyzed            | Vio Spec | DF    | Results                             | Units     | MDL      | RL         | Q |  |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-----------|----------|------------|---|--|
| <b>Analytical Method: EPA 200.7</b> |               | <b>Analyst: ABB</b> |          |       | <b>Preparation Method: EPA 1638</b> |           |          |            |   |  |
| * Boron, Total                      | 4/17/23 11:50 | 4/19/23 11:14       |          | 1.015 | Not Detected                        | mg/L      | 0.030000 | 0.1015     | U |  |
| * Calcium, Total                    | 4/17/23 11:50 | 4/19/23 11:14       |          | 1.015 | Not Detected                        | mg/L      | 0.070035 | 0.406      | U |  |
| * Iron, Total                       | 4/17/23 11:50 | 4/19/23 11:14       |          | 1.015 | Not Detected                        | mg/L      | 0.008120 | 0.0406     | U |  |
| * Lithium, Total                    | 4/17/23 11:50 | 4/19/23 11:14       |          | 1.015 | Not Detected                        | mg/L      | 0.007105 | 0.01999956 | U |  |
| * Magnesium, Total                  | 4/17/23 11:50 | 4/19/23 11:14       |          | 1.015 | Not Detected                        | mg/L      | 0.021315 | 0.406      | U |  |
| * Molybdenum, Total                 | 4/17/23 11:50 | 4/19/23 11:14       |          | 1.015 | Not Detected                        | mg/L      | 0.005075 | 0.01015    | U |  |
| * Silica, Total (calc.)             | 4/17/23 11:50 | 4/19/23 11:14       |          | 1     | Not Detected                        | mg/L      |          |            |   |  |
| * Silicon, Total                    | 4/17/23 11:50 | 4/19/23 11:14       |          | 1.015 | Not Detected                        | mg/L      | 0.02030  | 0.25375    | U |  |
| * Sodium, Total                     | 4/17/23 11:50 | 4/19/23 11:14       |          | 1.015 | Not Detected                        | mg/L      | 0.04060  | 0.406      | U |  |
| <b>Analytical Method: EPA 200.8</b> |               | <b>Analyst: DLJ</b> |          |       | <b>Preparation Method: EPA 1638</b> |           |          |            |   |  |
| * Antimony, Total                   | 4/17/23 11:50 | 4/17/23 13:23       |          | 1.015 | Not Detected                        | mg/L      | 0.000710 | 0.001015   | U |  |
| * Aluminum, Total                   | 4/17/23 11:50 | 4/17/23 13:23       |          | 1.015 | Not Detected                        | mg/L      | 0.009135 | 0.05075    | U |  |
| * Arsenic, Total                    | 4/17/23 11:50 | 4/17/23 13:23       |          | 1.015 | Not Detected                        | mg/L      | 0.000112 | 0.000203   | U |  |
| * Barium, Total                     | 4/17/23 11:50 | 4/17/23 13:23       |          | 1.015 | Not Detected                        | mg/L      | 0.000508 | 0.001015   | U |  |
| * Beryllium, Total                  | 4/17/23 11:50 | 4/17/23 13:23       |          | 1.015 | Not Detected                        | mg/L      | 0.000406 | 0.001015   | U |  |
| * Cadmium, Total                    | 4/17/23 11:50 | 4/17/23 13:23       |          | 1.015 | Not Detected                        | mg/L      | 0.000068 | 0.000203   | U |  |
| * Chromium, Total                   | 4/17/23 11:50 | 4/17/23 13:23       |          | 1.015 | Not Detected                        | mg/L      | 0.000203 | 0.001015   | U |  |
| * Cobalt, Total                     | 4/17/23 11:50 | 4/17/23 13:23       |          | 1.015 | Not Detected                        | mg/L      | 0.000068 | 0.000203   | U |  |
| * Lead, Total                       | 4/17/23 11:50 | 4/17/23 13:23       |          | 1.015 | Not Detected                        | mg/L      | 0.000068 | 0.000203   | U |  |
| * Manganese, Total                  | 4/17/23 11:50 | 4/17/23 13:23       |          | 1.015 | Not Detected                        | mg/L      | 0.000152 | 0.001015   | U |  |
| * Potassium, Total                  | 4/17/23 11:50 | 4/17/23 13:23       |          | 1.015 | Not Detected                        | mg/L      | 0.169505 | 0.5075     | U |  |
| * Selenium, Total                   | 4/17/23 11:50 | 4/17/23 13:23       |          | 1.015 | Not Detected                        | mg/L      | 0.000508 | 0.001015   | U |  |
| * Thallium, Total                   | 4/17/23 11:50 | 4/17/23 13:23       |          | 1.015 | Not Detected                        | mg/L      | 0.000068 | 0.000203   | U |  |
| <b>Analytical Method: EPA 245.1</b> |               | <b>Analyst: CRB</b> |          |       |                                     |           |          |            |   |  |
| * Mercury, Total by CVAA            | 4/20/23 18:26 | 4/21/23 01:32       |          | 1     | Not Detected                        | mg/L      | 0.0003   | 0.0005     | U |  |
| <b>Analytical Method: EPA 353.2</b> |               | <b>Analyst: SC</b>  |          |       |                                     |           |          |            |   |  |
| * Nitrogen, Nitrate/Nitrite         | 4/17/23 15:30 | 4/17/23 15:30       |          | 1     | Not Detected                        | mg/L as N | 0.20     | 0.3        | U |  |
| <b>Analytical Method: SM 2540C</b>  |               | <b>Analyst: CNJ</b> |          |       |                                     |           |          |            |   |  |
| * Solids, Dissolved                 | 4/14/23 13:40 | 4/17/23 13:45       |          | 1     | Not Detected                        | mg/L      |          | 25         | U |  |

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

**Comments:**

# Certificate Of Analysis

**Description:** Barry Pooled Upgradient Equipment Blank-1

**Location Code:** WMWBARPUEB

**Collected:** 4/12/23 13:45

**Customer ID:**

**Submittal Date:** 4/14/23 10:53

**Laboratory ID Number:** BD07417

| Name                                       | Prepared      | Analyzed            | Vio Spec | DF | Results      | Units | MDL  | RL    | Q |
|--|---------------|---------------------|----------|----|--------------|-------|------|-------|---|
| <b>Analytical Method: SM 5310 B</b>        |               | <b>Analyst: SC</b>  |          |    |              |       |      |       |   |
| * Total Organic Carbon                     | 4/17/23 18:58 | 4/17/23 18:58       |          | 1  | Not Detected | mg/L  | 1.00 | 2     | U |
| <b>Analytical Method: SM4500Cl E</b>       |               | <b>Analyst: JCC</b> |          |    |              |       |      |       |   |
| * Chloride                                 | 4/19/23 11:51 | 4/19/23 11:51       |          | 1  | Not Detected | mg/L  | 0.50 | 1     | U |
| <b>Analytical Method: SM4500F G 2017</b>   |               | <b>Analyst: JCC</b> |          |    |              |       |      |       |   |
| * Fluoride                                 | 4/19/23 13:04 | 4/19/23 13:04       |          | 1  | Not Detected | mg/L  | 0.06 | 0.125 | U |
| <b>Analytical Method: SM4500SO4 E 2011</b> |               | <b>Analyst: JCC</b> |          |    |              |       |      |       |   |
| * Sulfate                                  | 4/18/23 09:54 | 4/18/23 09:54       |          | 1  | Not Detected | mg/L  | 0.6  | 2     | U |

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

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**Comments:**

# Batch QC Summary

**Customer Account:** WMWBARPUEB

**Sample Date:** 4/12/23 13:45

**Customer ID:**

**Delivery Date:** 4/14/23 10:53

**Description:** Barry Pooled Upgradient Equipment Blank-1

**Laboratory ID Number:** BD07417

| Sample  | Analysis               | Units | MB         | MB       |       |         |         | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       |            | Limit    | Spike | MS      | MSD     | Standard | Limit              | Rec  | Limit       |       |       |
| BD07417 | Aluminum, Total        | mg/L  | 0.000313   | 0.0198   | 0.100 | 0.0965  | 0.0975  | 0.0986   | 0.0850 to 0.115    | 96.5 | 70.0 to 130 | 1.03  | 20.0  |
| BD07417 | Antimony, Total        | mg/L  | 0.000390   | 0.00100  | 0.100 | 0.0912  | 0.0914  | 0.0889   | 0.0850 to 0.115    | 91.2 | 70.0 to 130 | 0.219 | 20.0  |
| BD07417 | Arsenic, Total         | mg/L  | 0.0000162  | 0.000200 | 0.100 | 0.0986  | 0.0999  | 0.100    | 0.0850 to 0.115    | 98.6 | 70.0 to 130 | 1.31  | 20.0  |
| BD07417 | Barium, Total          | mg/L  | 0.0000205  | 0.00100  | 0.100 | 0.0983  | 0.101   | 0.104    | 0.0850 to 0.115    | 98.3 | 70.0 to 130 | 2.71  | 20.0  |
| BD07417 | Beryllium, Total       | mg/L  | 0.0000276  | 0.000880 | 0.100 | 0.101   | 0.101   | 0.0988   | 0.0850 to 0.115    | 101  | 70.0 to 130 | 0.00  | 20.0  |
| BD07417 | Boron, Total           | mg/L  | -0.000030  | 0.0650   | 1.00  | 0.997   | 0.992   | 1.01     | 0.850 to 1.15      | 99.7 | 70.0 to 130 | 0.503 | 20.0  |
| BD07417 | Cadmium, Total         | mg/L  | 0.0000025  | 0.000147 | 0.100 | 0.0972  | 0.0983  | 0.101    | 0.0850 to 0.115    | 97.2 | 70.0 to 130 | 1.13  | 20.0  |
| BD07417 | Calcium, Total         | mg/L  | -0.00628   | 0.152    | 5.00  | 5.00    | 4.88    | 4.94     | 4.25 to 5.75       | 100  | 70.0 to 130 | 2.43  | 20.0  |
| BD07417 | Chloride               | mg/L  | 0.0658     | 1.00     | 10.0  | 11.1    | 11.2    | 11.0     | 9.00 to 11.0       | 111  | 80.0 to 120 | 0.897 | 20.0  |
| BD07417 | Chromium, Total        | mg/L  | -0.0000146 | 0.000440 | 0.100 | 0.0964  | 0.0994  | 0.101    | 0.0850 to 0.115    | 96.4 | 70.0 to 130 | 3.06  | 20.0  |
| BD07417 | Cobalt, Total          | mg/L  | -0.0000965 | 0.000147 | 0.100 | 0.0988  | 0.100   | 0.103    | 0.0850 to 0.115    | 98.8 | 70.0 to 130 | 1.21  | 20.0  |
| BD07417 | Fluoride               | mg/L  | 0.0394     | 0.125    | 2.50  | 2.57    | 2.64    | 2.58     | 2.25 to 2.75       | 103  | 80.0 to 120 | 2.69  | 20.0  |
| BD07417 | Iron, Total            | mg/L  | 0.000031   | 0.0176   | 0.2   | 0.198   | 0.197   | 0.199    | 0.170 to 0.230     | 99.0 | 70.0 to 130 | 0.506 | 20.0  |
| BD07417 | Lead, Total            | mg/L  | 0.0000071  | 0.000147 | 0.100 | 0.103   | 0.105   | 0.104    | 0.0850 to 0.115    | 103  | 70.0 to 130 | 1.92  | 20.0  |
| BD07417 | Lithium, Total         | mg/L  | 0.00114    | 0.0154   | 0.200 | 0.193   | 0.195   | 0.196    | 0.170 to 0.230     | 96.5 | 70.0 to 130 | 1.03  | 20.0  |
| BD07417 | Magnesium, Total       | mg/L  | 0.00979    | 0.0462   | 5.00  | 4.95    | 4.90    | 4.96     | 4.25 to 5.75       | 99.0 | 70.0 to 130 | 1.02  | 20.0  |
| BD07417 | Manganese, Total       | mg/L  | 0.0000023  | 0.00033  | 0.100 | 0.0994  | 0.101   | 0.104    | 0.0850 to 0.115    | 99.4 | 70.0 to 130 | 1.60  | 20.0  |
| BD07415 | Mercury, Total by CVAA | mg/L  | 0.000      | 0.000500 | 0.004 | 0.00396 | 0.00398 | 0.00393  | 0.00340 to 0.00460 | 99.0 | 70.0 to 130 | 0.504 | 20.0  |
| BD07417 | Molybdenum, Total      | mg/L  | 0.001      | 0.0100   | 0.2   | 0.196   | 0.196   | 0.197    | 0.170 to 0.230     | 98.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD07417 | Potassium, Total       | mg/L  | -0.00118   | 0.367    | 10.0  | 9.67    | 9.73    | 9.93     | 8.50 to 11.5       | 96.7 | 70.0 to 130 | 0.619 | 20.0  |
| BD07417 | Selenium, Total        | mg/L  | 0.0000695  | 0.00100  | 0.100 | 0.100   | 0.100   | 0.101    | 0.0850 to 0.115    | 100  | 70.0 to 130 | 0.00  | 20.0  |
| BD07417 | Silicon, Total         | mg/L  | -0.000143  | 0.0440   | 1.00  | 1.01    | 1.00    | 1.01     | 0.850 to 1.15      | 101  | 70.0 to 130 | 0.995 | 20.0  |
| BD07417 | Sodium, Total          | mg/L  | -0.00109   | 0.0880   | 5.00  | 4.78    | 4.81    | 4.88     | 4.25 to 5.75       | 95.6 | 70.0 to 130 | 0.626 | 20.0  |
| BD07417 | Sulfate                | mg/L  | 0.130      | 2.0      | 20.0  | 22.4    | 22.5    | 21.5     | 18.0 to 22.0       | 112  | 80.0 to 120 | 0.445 | 20.0  |

**Comments:**



# Batch QC Summary

**Customer Account:** WMWBARPUEB

**Sample Date:** 4/12/23 13:45

**Customer ID:**

**Delivery Date:** 4/14/23 10:53

**Description:** Barry Pooled Upgradient Equipment Blank-1

**Laboratory ID Number:** BD07417

| Sample  | Analysis             | Units | MB        | MB       |       |        |          | MSD   | Standard        | Standard |      | Rec         |      | Prec  | Limit |
|---------|----------------------|-------|-----------|----------|-------|--------|----------|-------|-----------------|----------|------|-------------|------|-------|-------|
|         |                      |       |           | Limit    | Spike | MS     | Standard |       |                 | Limit    | Rec  | Limit       | Prec |       |       |
| BD07417 | Thallium, Total      | mg/L  | -0.000111 | 0.000147 | 0.100 | 0.0987 | 0.103    | 0.101 | 0.0850 to 0.115 |          | 98.7 | 70.0 to 130 |      | 4.26  | 20.0  |
| BD07417 | Total Organic Carbon | mg/L  | 0.120     | 1.00     | 10.0  | 10.4   | 10.3     | 25.3  |                 |          | 104  | 80.0 to 120 |      | 0.966 | 20.0  |

**Comments:**

## Batch QC Summary

**Customer Account:** WMWBARPUEB

**Sample Date:** 4/12/23 13:45

**Customer ID:**

**Delivery Date:** 4/14/23 10:53

**Description:** Barry Pooled Upgradient Equipment Blank-1

**Laboratory ID Number:** BD07417

| Sample  | Analysis                  | Units     | MB    | MB<br>Limit | Spike | MS   | Sample<br>Duplicate | Standard<br>Standard | Standard<br>Limit | Rec<br>Rec | Rec<br>Limit | Prec | Prec<br>Limit |
|---------|---------------------------|-----------|-------|-------------|-------|------|---------------------|----------------------|-------------------|------------|--------------|------|---------------|
| BD07417 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.04 | 0.200       | 2.00  | 2.10 | -0.055              | 2.09                 | 1.80 to 2.20      | 105        | 90.0 to 110  | 0.00 | 15.0          |
| BD07415 | Solids, Dissolved         | mg/L      | 1.00  | 25.0        |       |      | 22.0                | 55.0                 | 40.0 to 60.0      |            |              | 0.00 | 10.0          |

---

**Comments:**

# Definitions

**Project Number:** WMWBARPU\_1406

| 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.        |
| P         | Precision is out of specification 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 | Greg Dyer                |
|                         |              | Location     | Barry Pooled Upgradient  |

|         |   |                  |        |   |                       |        |   |                |        |   |     |     |
|---------|---|------------------|--------|---|-----------------------|--------|---|----------------|--------|---|-----|-----|
| Bottles | 1 | Metals           | 500 mL | 3 | Hg                    | 250 mL | 5 | TDS/Alkalinity | 500 mL | 7 | N/A | N/A |
|         | 2 | Dissolved Metals | 500 mL | 4 | Nitrite, Nitrate; TOC | 250 mL | 6 | Anions         | 500 mL | 8 | N/A | N/A |

Comments

| Sample # | Date       | Time  | Bottle Count | Description      | Lab Filter | Lab Id  | pH Check                            |
|----------|------------|-------|--------------|------------------|------------|---------|-------------------------------------|
| MW-4     | 04/12/2023 | 09:51 | 6            | Groundwater      |            | BD07411 | <input checked="" type="checkbox"/> |
| MW-4 Dup | 04/12/2023 | 09:51 | 6            | Sample Duplicate |            | BD07412 | <input checked="" type="checkbox"/> |
| MW-3     | 04/12/2023 | 11:05 | 6            | Groundwater      |            | BD07413 | <input checked="" type="checkbox"/> |
| MW-2     | 04/12/2023 | 12:10 | 6            | Groundwater      |            | BD07414 | <input checked="" type="checkbox"/> |
| MW-1     | 04/12/2023 | 13:05 | 6            | Groundwater      |            | BD07415 | <input checked="" type="checkbox"/> |
| FB-1     | 04/12/2023 | 13:35 | 5            | Field Blank      |            | BD07416 | <input checked="" type="checkbox"/> |
| EB-1     | 04/12/2023 | 13:45 | 5            | Equipment Blank  |            | BD07417 | <input checked="" type="checkbox"/> |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |

| Relinquished By | Received By | Date/Time        |
|-----------------|-------------|------------------|
|                 |             | 04/13/2023 13:31 |
|                 |             |                  |
|                 |             |                  |

|              |                |                |                  |
|--------------|----------------|----------------|------------------|
| SmarTroll ID | 7586-41445-5-4 | Cooler Temp    | 3.1 °C           |
| Turbidity ID | 4677-23343-4-2 | Thermometer ID | 10614-61208-2-1  |
| Sample Event | 1406           | pH Strip ID    | 10429-60252-10-8 |

Bottles/Pre-Preserved Bottles are provided by the GTL.  
Total Metals and Alkalinity are not performed on Dissolved Sets  
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete

Outside Lab

Lab Complete

Lab ETA

|                         |                         |            |                          |
|-------------------------|-------------------------|------------|--------------------------|
| Requested Complete Date | Routine                 | Results To | Dustin Brooks, Greg Dyer |
|                         | Collector: TJ Daugherty |            | Requested By: Greg Dyer  |
|                         |                         | 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 @ MW-3

| Sample # | Date       | Time  | Bottle Count | Description      | Lab Filter | Lab Id  | pH Check                            |
|----------|------------|-------|--------------|------------------|------------|---------|-------------------------------------|
| MW-4     | 04/12/2023 | 09:51 | 1            | Groundwater      |            | BD07418 | <input checked="" type="checkbox"/> |
| MW-4 Dup | 04/12/2023 | 09:51 | 1            | Sample Duplicate |            | BD07419 | <input checked="" type="checkbox"/> |
| MW-3     | 04/12/2023 | 11:05 | 3            | Groundwater      |            | BD07420 | <input checked="" type="checkbox"/> |
| MW-2     | 04/12/2023 | 12:10 | 1            | Groundwater      |            | BD07421 | <input checked="" type="checkbox"/> |
| MW-1     | 04/12/2023 | 13:05 | 1            | Groundwater      |            | BD07422 | <input checked="" type="checkbox"/> |
| FB-1     | 04/12/2023 | 13:35 | 1            | Field Blank      |            | BD07423 | <input checked="" type="checkbox"/> |
| EB-1     | 04/12/2023 | 13:45 | 1            | Equipment Blank  |            | BD07424 | <input checked="" type="checkbox"/> |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |

|                 |             |                  |
|-----------------|-------------|------------------|
| Relinquished By | Received By | Date/Time        |
|                 |             | 04/13/2023 13:31 |
|                 |             |                  |
|                 |             |                  |

|              |                |                |                  |
|--------------|----------------|----------------|------------------|
| SmarTroll ID | 7586-41445-5-4 | Cooler Temp    | N/A              |
| Turbidity ID | 4677-23343-4-2 | Thermometer ID | N/A              |
| Sample Event | 1406           | pH Strip ID    | 10429-60252-10-8 |

Bottles/Pre-Preserved Bottles are provided by the GTL.  
Total Metals and Alkalinity are not performed on Dissolved Sets  
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks

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

# *Analytical Report*



**Sample Group :** WMWBARAP\_1404

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

May 18, 2023

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory between April 05, 2023 and April 26, 2023. All results reported herein conform to the laboratory's most current Quality Assurance Manual. Results marked with an asterisk conform to the most current applicable TNI/NELAC requirements. Exceptions will be noted in the body of the report.

Laboratory certification ID: E571114  
Issued By: State of Florida, Department of Health  
Expiration: June 30, 2023

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

Sincerely,

Quality Control: **Brooke  
Caton**

Digitally signed by Brooke  
Caton  
Date: 2023.05.18  
09:42:10 -05'00'

Supervision: **T Durant  
Maske**

Digitally signed by T Durant Maske  
DN: cn=T Durant Maske, gn=T Durant Maske, c=US  
United States, i=US United States  
=tdmaske@Southernco.com  
Reason: I am the author of this document  
Location:  
Date: 2023-05-19 14:04:05-00



### REPORT OF LABORATORY ANALYSIS

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





Total Metals ICP

Barry Ash Pond

WMWBARAP\_1404

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> |
|------------------|-----------------|-------------------|
| BD06604          | 751626          | WMWBARAP_1404     |
| BD06605          | 751626          | WMWBARAP_1404     |
| BD06606          | 751626          | WMWBARAP_1404     |
| BD06607          | 751626          | WMWBARAP_1404     |
| BD06608          | 751626          | WMWBARAP_1404     |
| BD06609          | 751626          | WMWBARAP_1404     |
| BD06610          | 751626          | WMWBARAP_1404     |
| BD06611          | 751626          | WMWBARAP_1404     |
| BD06612          | 751626          | WMWBARAP_1404     |
| BD06613          | 751626          | WMWBARAP_1404     |
| BD06614          | 751627          | WMWBARAP_1404     |
| BD06615          | 751627          | WMWBARAP_1404     |
| BD06616          | 751627          | WMWBARAP_1404     |
| BD06617          | 751627          | WMWBARAP_1404     |
| BD06618          | 751627          | WMWBARAP_1404     |
| BD06619          | 751627          | WMWBARAP_1404     |
| BD06620          | 751627          | WMWBARAP_1404     |
| BD06621          | 751627          | WMWBARAP_1404     |
| BD06622          | 751627          | WMWBARAP_1404     |
| BD06623          | 751627          | WMWBARAP_1404     |
| BD06775          | 751825          | WMWBARAP_1404     |
| BD06776          | 751825          | WMWBARAP_1404     |
| BD06777          | 751825          | WMWBARAP_1404     |
| BD06778          | 751825          | WMWBARAP_1404     |
| BD06779          | 751825          | WMWBARAP_1404     |
| BD06780          | 751825          | WMWBARAP_1404     |
| BD06781          | 751825          | WMWBARAP_1404     |
| BD06826          | 751825          | WMWBARAP_1404     |
| BD06827          | 751825          | WMWBARAP_1404     |
| BD06828          | 751825          | WMWBARAP_1404     |
| BD06829          | 751826          | WMWBARAP_1404     |

|         |        |               |
|---------|--------|---------------|
| BD06830 | 751826 | WMWBARAP_1404 |
| BD06831 | 751826 | WMWBARAP_1404 |
| BD06832 | 751826 | WMWBARAP_1404 |
| BD06833 | 751826 | WMWBARAP_1404 |
| BD06834 | 751826 | WMWBARAP_1404 |
| BD06835 | 751826 | WMWBARAP_1404 |
| BD06836 | 751826 | WMWBARAP_1404 |
| BD06837 | 751826 | WMWBARAP_1404 |
| BD06838 | 751826 | WMWBARAP_1404 |
| BD06839 | 751827 | WMWBARAP_1404 |
| BD06840 | 751827 | WMWBARAP_1404 |
| BD08112 | 753717 | WMWBARAP_1404 |
| BD08113 | 753717 | WMWBARAP_1404 |
| BD08114 | 753717 | WMWBARAP_1404 |
| BD08115 | 753717 | WMWBARAP_1404 |
| BD08116 | 753717 | WMWBARAP_1404 |

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:
    - BD06613 Iron MS/MSD spike levels were less than 30% of the sample concentrations.
    - BD06828 Calcium and Magnesium MS/MSD spike levels were less than 30% of the sample concentrations.
    - BD06838 Iron MS/MSD spike levels were less than 30% of the sample concentrations.
    - BD08116 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> |
|------------------|----------------------------|------------------------|
| BD06604          | Iron                       | 101.5                  |
| BD06606          | Iron                       | 101.5                  |
| BD06607          | Iron, Sodium               | 101.5                  |
| BD06611          | Iron                       | 101.5                  |
| BD06613          | Calcium, Iron              | 101.5                  |
| BD06614          | Sodium                     | 10.15                  |
| BD06615          | Iron, Sodium               | 10.15                  |
| BD06618          | Iron                       | 10.15                  |
| BD06619          | Calcium, Iron              | 101.5                  |
| BD06620          | Iron, Sodium               | 10.15                  |
| BD06621          | Iron                       | 101.5                  |
| BD06622          | Iron                       | 101.5                  |
| BD06775          | Iron, Sodium               | 101.5                  |
| BD06776          | Iron, Sodium               | 101.5                  |
| BD06777          | Iron, Sodium               | 101.5                  |
| BD06778          | Iron, Sodium               | 101.5                  |
| BD06779          | Calcium, Iron              | 10.15                  |
| BD06780          | Iron, Sodium               | 101.5                  |
| BD06826          | Iron                       | 101.5                  |
| BD06827          | Calcium, Iron, Sodium      | 101.5                  |
| BD06828          | Calcium, Magnesium, Sodium | 101.5                  |
| BD06829          | Iron                       | 101.5                  |

## Case Narrative

|         |              |       |
|---------|--------------|-------|
| BD06830 | Iron, Sodium | 10.15 |
| BD06831 | Iron         | 101.5 |
| BD06832 | Sodium       | 10.15 |
| BD06833 | Iron         | 101.5 |
| BD06835 | Iron         | 10.15 |
| BD06837 | Sodium       | 10.15 |
| BD06838 | Iron         | 10.15 |
| BD06839 | Iron, Sodium | 10.15 |
| BD08113 | Iron, Sodium | 101.5 |
| BD08114 | Iron, Sodium | 101.5 |
| BD08115 | Iron, Sodium | 101.5 |
| BD08116 | Iron         | 101.5 |

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

Dissolved Metals ICP

Barry Ash Pond

WMWBARAP\_1404

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> |
|------------------|-----------------|-------------------|
| BD06604          | 751590          | WMWBARAP_1404     |
| BD06606          | 751590          | WMWBARAP_1404     |
| BD06607          | 751590          | WMWBARAP_1404     |
| BD06608          | 751590          | WMWBARAP_1404     |
| BD06609          | 751590          | WMWBARAP_1404     |
| BD06610          | 751590          | WMWBARAP_1404     |
| BD06611          | 751590          | WMWBARAP_1404     |
| BD06612          | 751590          | WMWBARAP_1404     |
| BD06613          | 751590          | WMWBARAP_1404     |
| BD06614          | 751590          | WMWBARAP_1404     |
| BD06615          | 751591          | WMWBARAP_1404     |
| BD06616          | 751591          | WMWBARAP_1404     |
| BD06618          | 751591          | WMWBARAP_1404     |
| BD06619          | 751591          | WMWBARAP_1404     |
| BD06620          | 751591          | WMWBARAP_1404     |
| BD06621          | 751591          | WMWBARAP_1404     |
| BD06622          | 751591          | WMWBARAP_1404     |
| BD06775          | 751779          | WMWBARAP_1404     |
| BD06776          | 751779          | WMWBARAP_1404     |
| BD06777          | 751779          | WMWBARAP_1404     |
| BD06778          | 751779          | WMWBARAP_1404     |
| BD06779          | 751779          | WMWBARAP_1404     |
| BD06780          | 751779          | WMWBARAP_1404     |
| BD06826          | 751779          | WMWBARAP_1404     |
| BD06827          | 751779          | WMWBARAP_1404     |
| BD06828          | 751779          | WMWBARAP_1404     |
| BD06829          | 751779          | WMWBARAP_1404     |
| BD06830          | 751780          | WMWBARAP_1404     |
| BD06831          | 751780          | WMWBARAP_1404     |
| BD06832          | 751780          | WMWBARAP_1404     |
| BD06833          | 751780          | WMWBARAP_1404     |

|         |        |               |
|---------|--------|---------------|
| BD06834 | 751780 | WMWBARAP_1404 |
| BD06835 | 751780 | WMWBARAP_1404 |
| BD06836 | 751780 | WMWBARAP_1404 |
| BD06837 | 751780 | WMWBARAP_1404 |
| BD06838 | 751780 | WMWBARAP_1404 |
| BD06839 | 751780 | WMWBARAP_1404 |
| BD08112 | 753753 | WMWBARAP_1404 |
| BD08113 | 753753 | WMWBARAP_1404 |
| BD08114 | 753753 | WMWBARAP_1404 |
| BD08115 | 753753 | WMWBARAP_1404 |
| BD08116 | 753753 | WMWBARAP_1404 |

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.

## Case Narrative

- A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for accuracy were met except for the following:
    - BD06614 Sodium MS/MSD spike levels were less than 30% of the sample concentrations.
    - BD06622 Iron MS/MSD spike levels were less than 30% of the sample concentrations.
    - BD06829 Iron MS/MSD spike levels were less than 30% of the sample concentrations.
    - BD06839 Iron MS/MSD spike levels were less than 30% of the sample concentrations.
    - BD08116 Calcium and 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> |
|------------------|----------------------------|------------------------|
| BD06604          | Iron                       | 101.5                  |
| BD06606          | Iron, Sodium               | 101.5                  |
| BD06607          | Iron, Sodium               | 101.5                  |
| BD06611          | Iron                       | 101.5                  |
| BD06613          | Calcium, Iron              | 101.5                  |
| BD06614          | Sodium                     | 10.15                  |
| BD06615          | Iron, Sodium               | 10.15                  |
| BD06618          | Iron                       | 10.15                  |
| BD06619          | Calcium, Iron              | 101.5                  |
| BD06620          | Iron, Sodium               | 10.15                  |
| BD06621          | Iron                       | 101.5                  |
| BD06622          | Iron                       | 101.5                  |
| BD06775          | Iron, Sodium               | 101.5                  |
| BD06776          | Iron, Sodium               | 101.5                  |
| BD06777          | Iron, Sodium               | 101.5                  |
| BD06778          | Iron, Sodium               | 101.5                  |
| BD06779          | Calcium, Iron              | 10.15                  |
| BD06780          | Iron, Sodium               | 101.5                  |
| BD06826          | Iron                       | 101.5                  |
| BD06827          | Calcium, Iron, Sodium      | 101.5                  |
| BD06828          | Calcium, Magnesium, Sodium | 101.5                  |
| BD06829          | Iron                       | 101.5                  |
| BD06830          | Iron, Sodium               | 10.15                  |
| BD06831          | Iron                       | 101.5                  |
| BD06832          | Sodium                     | 10.15                  |
| BD06833          | Iron                       | 101.5                  |
| BD06836          | Sodium                     | 10.15                  |



## Case Narrative

|         |              |       |
|---------|--------------|-------|
| BD06837 | Sodium       | 10.15 |
| BD06838 | Iron         | 10.15 |
| BD06839 | Iron, Sodium | 10.15 |
| BD08113 | Iron, Sodium | 101.5 |
| BD08114 | Iron, Sodium | 101.5 |
| BD08115 | Iron, Sodium | 101.5 |
| BD08116 | Iron         | 101.5 |

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

Total Metals ICPMS

Barry Ash Pond

WMWBARAP\_1404

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> |
|------------------|-----------------|-------------------|
| BD06604          | 752355          | WMWBARAP_1404     |
| BD06605          | 752355          | WMWBARAP_1404     |
| BD06606          | 752355          | WMWBARAP_1404     |
| BD06607          | 752355          | WMWBARAP_1404     |
| BD06608          | 752355          | WMWBARAP_1404     |
| BD06609          | 752355          | WMWBARAP_1404     |
| BD06610          | 752355          | WMWBARAP_1404     |
| BD06611          | 752355          | WMWBARAP_1404     |
| BD06612          | 752355          | WMWBARAP_1404     |
| BD06613          | 752355          | WMWBARAP_1404     |
| BD06614          | 752356          | WMWBARAP_1404     |
| BD06615          | 752356          | WMWBARAP_1404     |
| BD06616          | 752356          | WMWBARAP_1404     |
| BD06617          | 752356          | WMWBARAP_1404     |
| BD06618          | 752356          | WMWBARAP_1404     |
| BD06619          | 752356          | WMWBARAP_1404     |
| BD06620          | 752356          | WMWBARAP_1404     |
| BD06621          | 752356          | WMWBARAP_1404     |
| BD06622          | 752356          | WMWBARAP_1404     |
| BD06623          | 752356          | WMWBARAP_1404     |
| BD06775          | 752397          | WMWBARAP_1404     |
| BD06776          | 752397          | WMWBARAP_1404     |
| BD06777          | 752397          | WMWBARAP_1404     |
| BD06778          | 752397          | WMWBARAP_1404     |
| BD06779          | 752397          | WMWBARAP_1404     |
| BD06780          | 752397          | WMWBARAP_1404     |
| BD06781          | 752397          | WMWBARAP_1404     |
| BD06826          | 752397          | WMWBARAP_1404     |
| BD06827          | 752397          | WMWBARAP_1404     |
| BD06828          | 752397          | WMWBARAP_1404     |
| BD06829          | 752398          | WMWBARAP_1404     |

|         |        |               |
|---------|--------|---------------|
| BD06830 | 752398 | WMWBARAP_1404 |
| BD06831 | 752398 | WMWBARAP_1404 |
| BD06832 | 752398 | WMWBARAP_1404 |
| BD06833 | 752398 | WMWBARAP_1404 |
| BD06834 | 752398 | WMWBARAP_1404 |
| BD06835 | 752398 | WMWBARAP_1404 |
| BD06836 | 752398 | WMWBARAP_1404 |
| BD06837 | 752398 | WMWBARAP_1404 |
| BD06838 | 752398 | WMWBARAP_1404 |
| BD06839 | 752399 | WMWBARAP_1404 |
| BD06840 | 752399 | WMWBARAP_1404 |
| BD08112 | 754564 | WMWBARAP_1404 |
| BD08113 | 754564 | WMWBARAP_1404 |
| BD08114 | 754564 | WMWBARAP_1404 |
| BD08115 | 754564 | WMWBARAP_1404 |
| BD08116 | 754564 | WMWBARAP_1404 |

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

#### General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

## Matrix Specific Quality Control Procedures:

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

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for accuracy were met, except for the following:
    - BD06828 Barium and Manganese MS and/or MSD spike levels were less than 30% of the sample concentrations.
    - BD08116 Manganese MS and/or MSD spike levels were less than 30% of the sample concentrations.
  - 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> |
|------------------|----------------|------------------------|
| BD06621          | Manganese      | 5.075                  |
| BD06622          | Manganese      | 5.075                  |
| BD06828          | Manganese      | 5.075                  |
| BD08116          | Manganese      | 5.075                  |

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

Dissolved Metals ICPMS

Barry Ash Pond

WMWBARAP\_1404

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> |
|------------------|-----------------|-------------------|
| BD06604          | 752301          | WMWBARAP_1404     |
| BD06606          | 752301          | WMWBARAP_1404     |
| BD06607          | 752301          | WMWBARAP_1404     |
| BD06608          | 752301          | WMWBARAP_1404     |
| BD06609          | 752301          | WMWBARAP_1404     |
| BD06610          | 752301          | WMWBARAP_1404     |
| BD06611          | 752301          | WMWBARAP_1404     |
| BD06612          | 752301          | WMWBARAP_1404     |
| BD06613          | 752301          | WMWBARAP_1404     |
| BD06614          | 752301          | WMWBARAP_1404     |
| BD06615          | 752302          | WMWBARAP_1404     |
| BD06616          | 752302          | WMWBARAP_1404     |
| BD06618          | 752302          | WMWBARAP_1404     |
| BD06619          | 752302          | WMWBARAP_1404     |
| BD06620          | 752302          | WMWBARAP_1404     |
| BD06621          | 752302          | WMWBARAP_1404     |
| BD06622          | 752302          | WMWBARAP_1404     |
| BD06775          | 752272          | WMWBARAP_1404     |
| BD06776          | 752272          | WMWBARAP_1404     |
| BD06777          | 752272          | WMWBARAP_1404     |
| BD06778          | 752272          | WMWBARAP_1404     |
| BD06779          | 752272          | WMWBARAP_1404     |
| BD06780          | 752272          | WMWBARAP_1404     |
| BD06826          | 752272          | WMWBARAP_1404     |
| BD06827          | 752272          | WMWBARAP_1404     |
| BD06828          | 752272          | WMWBARAP_1404     |
| BD06829          | 752272          | WMWBARAP_1404     |
| BD06830          | 752273          | WMWBARAP_1404     |
| BD06831          | 752273          | WMWBARAP_1404     |
| BD06832          | 752273          | WMWBARAP_1404     |
| BD06833          | 752273          | WMWBARAP_1404     |

|         |        |               |
|---------|--------|---------------|
| BD06834 | 752273 | WMWBARAP_1404 |
| BD06835 | 752273 | WMWBARAP_1404 |
| BD06836 | 752273 | WMWBARAP_1404 |
| BD06837 | 752273 | WMWBARAP_1404 |
| BD06838 | 752273 | WMWBARAP_1404 |
| BD06839 | 752273 | WMWBARAP_1404 |
| BD08112 | 754593 | WMWBARAP_1404 |
| BD08113 | 754593 | WMWBARAP_1404 |
| BD08114 | 754593 | WMWBARAP_1404 |
| BD08115 | 754593 | WMWBARAP_1404 |
| BD08116 | 754593 | WMWBARAP_1404 |

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:
    - BD08116 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> |
|------------------|----------------|------------------------|
| BD06621          | Manganese      | 5.075                  |
| BD06622          | Manganese      | 5.075                  |
| BD06828          | Manganese      | 5.075                  |
| BD08116          | Manganese      | 5.075                  |

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

Mercury

Barry Ash Pond

WMWBARAP\_1404

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> |
|------------------|-----------------|-------------------|
| BD06604          | 752145          | WMWBARAP_1404     |
| BD06605          | 752145          | WMWBARAP_1404     |
| BD06606          | 752145          | WMWBARAP_1404     |
| BD06607          | 752145          | WMWBARAP_1404     |
| BD06608          | 752145          | WMWBARAP_1404     |
| BD06609          | 752145          | WMWBARAP_1404     |
| BD06610          | 752145          | WMWBARAP_1404     |
| BD06611          | 752145          | WMWBARAP_1404     |
| BD06612          | 752145          | WMWBARAP_1404     |
| BD06613          | 752145          | WMWBARAP_1404     |
| BD06614          | 752146          | WMWBARAP_1404     |
| BD06615          | 752146          | WMWBARAP_1404     |
| BD06616          | 752146          | WMWBARAP_1404     |
| BD06617          | 752146          | WMWBARAP_1404     |
| BD06618          | 752146          | WMWBARAP_1404     |
| BD06619          | 752146          | WMWBARAP_1404     |
| BD06620          | 752146          | WMWBARAP_1404     |
| BD06621          | 752146          | WMWBARAP_1404     |
| BD06622          | 752146          | WMWBARAP_1404     |
| BD06623          | 752146          | WMWBARAP_1404     |
| BD06775          | 752147          | WMWBARAP_1404     |
| BD06776          | 752147          | WMWBARAP_1404     |
| BD06777          | 752147          | WMWBARAP_1404     |
| BD06778          | 752147          | WMWBARAP_1404     |
| BD06779          | 752147          | WMWBARAP_1404     |
| BD06780          | 752147          | WMWBARAP_1404     |
| BD06781          | 752147          | WMWBARAP_1404     |
| BD06826          | 752147          | WMWBARAP_1404     |
| BD06827          | 752147          | WMWBARAP_1404     |
| BD06828          | 752147          | WMWBARAP_1404     |
| BD06829          | 752148          | WMWBARAP_1404     |



|         |        |               |
|---------|--------|---------------|
| BD06830 | 752148 | WMWBARAP_1404 |
| BD06831 | 752148 | WMWBARAP_1404 |
| BD06832 | 752148 | WMWBARAP_1404 |
| BD06833 | 752148 | WMWBARAP_1404 |
| BD06834 | 752148 | WMWBARAP_1404 |
| BD06835 | 752148 | WMWBARAP_1404 |
| BD06836 | 752148 | WMWBARAP_1404 |
| BD06837 | 752148 | WMWBARAP_1404 |
| BD06838 | 752148 | WMWBARAP_1404 |
| BD06839 | 752468 | WMWBARAP_1404 |
| BD06840 | 752468 | WMWBARAP_1404 |
| BD08112 | 753660 | WMWBARAP_1404 |
| BD08113 | 753660 | WMWBARAP_1404 |
| BD08114 | 753660 | WMWBARAP_1404 |
| BD08115 | 753660 | WMWBARAP_1404 |
| BD08116 | 753660 | WMWBARAP_1404 |

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.

Revision 5

- 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, except for the following:
    - BD06623 Precision is out of specification limit.
7. All samples were analyzed without a dilution.

Total Dissolved Solids

Barry Ash Pond

WMWBARAP\_1404

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> |
|------------------|-----------------|-------------------|
| BD06604          | 751754          | WMWBARAP_1404     |
| BD06605          | 751754          | WMWBARAP_1404     |
| BD06606          | 751754          | WMWBARAP_1404     |
| BD06607          | 751754          | WMWBARAP_1404     |
| BD06608          | 751754          | WMWBARAP_1404     |
| BD06609          | 751754          | WMWBARAP_1404     |
| BD06610          | 751755          | WMWBARAP_1404     |
| BD06611          | 751754          | WMWBARAP_1404     |
| BD06612          | 751755          | WMWBARAP_1404     |
| BD06613          | 751755          | WMWBARAP_1404     |
| BD06614          | 751755          | WMWBARAP_1404     |
| BD06615          | 751755          | WMWBARAP_1404     |
| BD06616          | 751755          | WMWBARAP_1404     |
| BD06617          | 751755          | WMWBARAP_1404     |
| BD06618          | 751755          | WMWBARAP_1404     |
| BD06619          | 751755          | WMWBARAP_1404     |
| BD06620          | 751755          | WMWBARAP_1404     |
| BD06621          | 751896          | WMWBARAP_1404     |
| BD06622          | 751896          | WMWBARAP_1404     |
| BD06623          | 751896          | WMWBARAP_1404     |
| BD06775          | 751896          | WMWBARAP_1404     |
| BD06776          | 751896          | WMWBARAP_1404     |
| BD06777          | 751896          | WMWBARAP_1404     |
| BD06778          | 751896          | WMWBARAP_1404     |
| BD06779          | 751896          | WMWBARAP_1404     |
| BD06780          | 751896          | WMWBARAP_1404     |
| BD06781          | 751896          | WMWBARAP_1404     |
| BD06826          | 751897          | WMWBARAP_1404     |
| BD06827          | 751897          | WMWBARAP_1404     |
| BD06828          | 751897          | WMWBARAP_1404     |
| BD06829          | 751897          | WMWBARAP_1404     |

|         |        |               |
|---------|--------|---------------|
| BD06830 | 751897 | WMWBARAP_1404 |
| BD06831 | 752041 | WMWBARAP_1404 |
| BD06832 | 751897 | WMWBARAP_1404 |
| BD06833 | 751897 | WMWBARAP_1404 |
| BD06834 | 751897 | WMWBARAP_1404 |
| BD06835 | 751897 | WMWBARAP_1404 |
| BD06836 | 751897 | WMWBARAP_1404 |
| BD06837 | 752041 | WMWBARAP_1404 |
| BD06838 | 752041 | WMWBARAP_1404 |
| BD06839 | 752041 | WMWBARAP_1404 |
| BD06840 | 752041 | WMWBARAP_1404 |
| BD08112 | 753835 | WMWBARAP_1404 |
| BD08113 | 753835 | WMWBARAP_1404 |
| BD08114 | 753835 | WMWBARAP_1404 |
| BD08115 | 753836 | WMWBARAP_1404 |
| BD08116 | 753836 | WMWBARAP_1404 |

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:
  - BD06605
  - BD06617
  - BD06623
  - BD06781
  - BD06840

Alkalinity

Barry Ash Pond

WMWBARAP\_1404

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> |
|------------------|------------------------|-------------------|
| BD06604          | 752552, 752553, 752554 | WMWBARAP_1404     |
| BD06606          | 752552, 752553, 752554 | WMWBARAP_1404     |
| BD06607          | 752552, 752553, 752554 | WMWBARAP_1404     |
| BD06608          | 752609, 752610, 752611 | WMWBARAP_1404     |
| BD06609          | 752609, 752610, 752611 | WMWBARAP_1404     |
| BD06610          | 752609, 752610, 752611 | WMWBARAP_1404     |
| BD06611          | 752552, 752553, 752554 | WMWBARAP_1404     |
| BD06612          | 752552, 752553, 752554 | WMWBARAP_1404     |
| BD06613          | 752609, 752610, 752611 | WMWBARAP_1404     |
| BD06614          | 752609, 752610, 752611 | WMWBARAP_1404     |
| BD06615          | 752609, 752610, 752611 | WMWBARAP_1404     |
| BD06616          | 752609, 752610, 752611 | WMWBARAP_1404     |
| BD06618          | 752552, 752553, 752554 | WMWBARAP_1404     |
| BD06619          | 752609, 752610, 752611 | WMWBARAP_1404     |
| BD06620          | 752609, 752610, 752611 | WMWBARAP_1404     |
| BD06621          | 752609, 752610, 752611 | WMWBARAP_1404     |
| BD06622          | 752609, 752610, 752611 | WMWBARAP_1404     |
| BD06775          | 752609, 752610, 752611 | WMWBARAP_1404     |
| BD06776          | 752609, 752610, 752611 | WMWBARAP_1404     |
| BD06777          | 752609, 752610, 752611 | WMWBARAP_1404     |
| BD06778          | 752609, 752610, 752611 | WMWBARAP_1404     |
| BD06779          | 752609, 752610, 752611 | WMWBARAP_1404     |
| BD06780          | 752609, 752610, 752611 | WMWBARAP_1404     |
| BD06826          | 752701, 752702, 752703 | WMWBARAP_1404     |
| BD06827          | 752701, 752702, 752703 | WMWBARAP_1404     |
| BD06828          | 752701, 752702, 752703 | WMWBARAP_1404     |
| BD06829          | 752701, 752702, 752703 | WMWBARAP_1404     |
| BD06830          | 752701, 752702, 752703 | WMWBARAP_1404     |
| BD06831          | 752701, 752702, 752703 | WMWBARAP_1404     |
| BD06832          | 752701, 752702, 752703 | WMWBARAP_1404     |
| BD06833          | 752701, 752702, 752703 | WMWBARAP_1404     |

|         |                        |               |
|---------|------------------------|---------------|
| BD06834 | 752701, 752702, 752703 | WMWBARAP_1404 |
| BD06835 | 752701, 752702, 752703 | WMWBARAP_1404 |
| BD06836 | 752701, 752702, 752703 | WMWBARAP_1404 |
| BD06837 | 752701, 752702, 752703 | WMWBARAP_1404 |
| BD06838 | 752701, 752702, 752703 | WMWBARAP_1404 |
| BD06839 | 752701, 752702, 752703 | WMWBARAP_1404 |
| BD08112 | 754431, 754432, 754433 | WMWBARAP_1404 |
| BD08113 | 754431, 754432, 754433 | WMWBARAP_1404 |
| BD08114 | 754431, 754432, 754433 | WMWBARAP_1404 |
| BD08115 | 754431, 754432, 754433 | WMWBARAP_1404 |
| BD08116 | 754431, 754432, 754433 | WMWBARAP_1404 |

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

#### General Quality Control Procedures:

- An initial pH check was analyzed with each batch. The acceptance criteria were met.
  - A final pH check was analyzed with each batch. The acceptance criteria were met.
  - An alkalinity laboratory control sample was analyzed with each batch. Range criteria of within 10% of true value was met.
  - An alkalinity sample duplicate was analyzed with each batch. Precision criteria less than 10 RPD was met.
7. The following samples had pH>10 and/or TDS>500mg/L. Therefore, the calculations for carbonate and bicarbonate are estimates:
    - BD06220
    - BD06827
    - BD06828

Anions

Barry Ash Pond

WMWBARAP\_1404

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> |
|------------------|------------------------|-------------------|
| BD06604          | 752402, 752421, 751761 | WMWBARAP_1404     |
| BD06605          | 752402, 752421, 751761 | WMWBARAP_1404     |
| BD06606          | 752402, 752421, 751761 | WMWBARAP_1404     |
| BD06607          | 752402, 752421, 751761 | WMWBARAP_1404     |
| BD06608          | 752402, 752421, 751761 | WMWBARAP_1404     |
| BD06609          | 752402, 752421, 751761 | WMWBARAP_1404     |
| BD06610          | 752402, 752421, 751761 | WMWBARAP_1404     |
| BD06611          | 752402, 752421, 751761 | WMWBARAP_1404     |
| BD06612          | 752402, 752421, 751761 | WMWBARAP_1404     |
| BD06613          | 752403, 752421, 751761 | WMWBARAP_1404     |
| BD06614          | 752403, 752422, 751762 | WMWBARAP_1404     |
| BD06615          | 752403, 752422, 751762 | WMWBARAP_1404     |
| BD06616          | 752403, 752422, 751762 | WMWBARAP_1404     |
| BD06617          | 752403, 752422, 751762 | WMWBARAP_1404     |
| BD06618          | 752403, 752422, 751762 | WMWBARAP_1404     |
| BD06619          | 752403, 752422, 751762 | WMWBARAP_1404     |
| BD06620          | 752403, 752422, 751762 | WMWBARAP_1404     |
| BD06621          | 752403, 752422, 751762 | WMWBARAP_1404     |
| BD06622          | 752403, 752422, 751762 | WMWBARAP_1404     |
| BD06623          | 752404, 752422, 751762 | WMWBARAP_1404     |
| BD06775          | 752404, 752423, 751763 | WMWBARAP_1404     |
| BD06776          | 752404, 752423, 751763 | WMWBARAP_1404     |
| BD06777          | 752404, 752423, 751763 | WMWBARAP_1404     |
| BD06778          | 752404, 752423, 751763 | WMWBARAP_1404     |
| BD06779          | 752404, 752423, 751763 | WMWBARAP_1404     |
| BD06780          | 752404, 752423, 751763 | WMWBARAP_1404     |
| BD06781          | 752404, 752423, 751763 | WMWBARAP_1404     |
| BD06826          | 752404, 752423, 752696 | WMWBARAP_1404     |
| BD06827          | 752404, 752423, 752696 | WMWBARAP_1404     |
| BD06828          | 752405, 752423, 752696 | WMWBARAP_1404     |
| BD06829          | 752405, 752424, 752696 | WMWBARAP_1404     |

|         |                        |               |
|---------|------------------------|---------------|
| BD06830 | 752405, 752424, 752696 | WMWBARAP_1404 |
| BD06831 | 752405, 752424, 752696 | WMWBARAP_1404 |
| BD06832 | 752405, 752424, 752696 | WMWBARAP_1404 |
| BD06833 | 752405, 752424, 752696 | WMWBARAP_1404 |
| BD06834 | 752405, 752424, 752696 | WMWBARAP_1404 |
| BD06835 | 752405, 752424, 752696 | WMWBARAP_1404 |
| BD06836 | 752405, 752424, 752697 | WMWBARAP_1404 |
| BD06837 | 752405, 752424, 752697 | WMWBARAP_1404 |
| BD06838 | 752406, 752424, 752697 | WMWBARAP_1404 |
| BD06839 | 752406, 752425, 752697 | WMWBARAP_1404 |
| BD06840 | 752406, 752425, 752697 | WMWBARAP_1404 |
| BD08112 | 753980, 754043, 753927 | WMWBARAP_1404 |
| BD08113 | 753980, 754043, 753927 | WMWBARAP_1404 |
| BD08114 | 753980, 754043, 753927 | WMWBARAP_1404 |
| BD08115 | 753980, 754043, 753927 | WMWBARAP_1404 |
| BD08116 | 753980, 754043, 753927 | WMWBARAP_1404 |

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.



## Case Narrative

- A matrix spike was analyzed with each batch. Acceptance criteria for accuracy were met, except for the following:
    - BD06613 Sulfate MS and/or MSD recovery is outside of the specification limits.
  - 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> |
|------------------|-------------------|------------------------|
| BD06604          | Chloride          | 5                      |
| BD06606          | Chloride, Sulfate | 5, 4                   |
| BD06607          | Chloride, Sulfate | 5, 3                   |
| BD06611          | Chloride          | 4                      |
| BD06613          | Chloride          | 4                      |
| BD06614          | Chloride          | 5                      |
| BD06615          | Chloride          | 5                      |
| BD06619          | Chloride          | 4                      |
| BD06620          | Chloride          | 20                     |
| BD06775          | Chloride, Sulfate | 2, 3                   |
| BD06776          | Chloride, Sulfate | 2, 3                   |
| BD06777          | Chloride, Sulfate | 2, 3                   |
| BD06778          | Chloride          | 2                      |
| BD06780          | Chloride          | 5                      |
| BD06827          | Chloride          | 80                     |
| BD06828          | Chloride, Sulfate | 100, 3                 |
| BD06830          | Chloride          | 40                     |
| BD06831          | Chloride          | 2                      |
| BD06832          | Chloride          | 5                      |
| BD06833          | Chloride          | 3                      |
| BD06834          | Chloride          | 5                      |
| BD06836          | Chloride          | 20                     |
| BD06837          | Chloride          | 20                     |
| BD06838          | Sulfate           | 3                      |
| BD06839          | Chloride, Sulfate | 4, 5                   |
| BD08112          | Chloride          | 2                      |
| BD08113          | Chloride, Sulfate | 4, 4                   |
| BD08114          | Chloride          | 20                     |
| BD08115          | Chloride, Sulfate | 4, 3                   |
| BD08116          | Sulfate           | 3                      |

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

Nitrate-Nitrite

Barry Ash Pond

WMWBARAP\_1404

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> |
|------------------|-----------------|-------------------|
| BD06604          | 751764          | WMWBARAP_1404     |
| BD06605          | 751764          | WMWBARAP_1404     |
| BD06606          | 751764          | WMWBARAP_1404     |
| BD06607          | 751764          | WMWBARAP_1404     |
| BD06608          | 751764          | WMWBARAP_1404     |
| BD06609          | 751764          | WMWBARAP_1404     |
| BD06610          | 751764          | WMWBARAP_1404     |
| BD06611          | 751764          | WMWBARAP_1404     |
| BD06612          | 751764          | WMWBARAP_1404     |
| BD06613          | 751764          | WMWBARAP_1404     |
| BD06614          | 751765          | WMWBARAP_1404     |
| BD06615          | 751765          | WMWBARAP_1404     |
| BD06616          | 751765          | WMWBARAP_1404     |
| BD06617          | 751765          | WMWBARAP_1404     |
| BD06618          | 751765          | WMWBARAP_1404     |
| BD06619          | 751765          | WMWBARAP_1404     |
| BD06620          | 751765          | WMWBARAP_1404     |
| BD06621          | 751765          | WMWBARAP_1404     |
| BD06622          | 751765          | WMWBARAP_1404     |
| BD06623          | 751765          | WMWBARAP_1404     |
| BD06775          | 751766          | WMWBARAP_1404     |
| BD06776          | 751766          | WMWBARAP_1404     |
| BD06777          | 751766          | WMWBARAP_1404     |
| BD06778          | 751766          | WMWBARAP_1404     |
| BD06779          | 751766          | WMWBARAP_1404     |
| BD06780          | 751766          | WMWBARAP_1404     |
| BD06781          | 751766          | WMWBARAP_1404     |
| BD06826          | 752105          | WMWBARAP_1404     |
| BD06827          | 752105          | WMWBARAP_1404     |
| BD06828          | 752105          | WMWBARAP_1404     |
| BD06829          | 752105          | WMWBARAP_1404     |

|         |        |               |
|---------|--------|---------------|
| BD06830 | 752105 | WMWBARAP_1404 |
| BD06831 | 752105 | WMWBARAP_1404 |
| BD06832 | 752105 | WMWBARAP_1404 |
| BD06833 | 752105 | WMWBARAP_1404 |
| BD06834 | 752105 | WMWBARAP_1404 |
| BD06835 | 752105 | WMWBARAP_1404 |
| BD06836 | 752106 | WMWBARAP_1404 |
| BD06837 | 752106 | WMWBARAP_1404 |
| BD06838 | 752106 | WMWBARAP_1404 |
| BD06839 | 752106 | WMWBARAP_1404 |
| BD06840 | 752106 | WMWBARAP_1404 |
| BD08112 | 753853 | WMWBARAP_1404 |
| BD08113 | 753853 | WMWBARAP_1404 |
| BD08114 | 753853 | WMWBARAP_1404 |
| BD08115 | 753853 | WMWBARAP_1404 |
| BD08116 | 753853 | WMWBARAP_1404 |

4. All of the above samples were prepared and analyzed for NO<sub>x</sub> by EPA 353.2.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

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

#### EPA 353.2 Specific QC:

- Prior to sample analysis, Cadmium coil reduction efficiency check met criteria.
- Matrix Specific QC:
  - A sample duplicate was run and criteria for precision was met.
  - A matrix spike was run and criteria for accuracy was met, except for the following:
    - BD06613 MS and/or MSD recovery is outside of the specification limits.
    - BD06835 MS and/or MSD recovery is outside of the specification limits.
- 7. All samples were analyzed without a dilution factor.
- 8. The raw data results are shown with dilution factors included.

Total Organic Carbon

Barry Ash Pond

WMWBARAP\_1404

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> |
|------------------|-----------------|-------------------|
| BD06604          | 751638          | WMWBARAP_1404     |
| BD06605          | 751638          | WMWBARAP_1404     |
| BD06606          | 751638          | WMWBARAP_1404     |
| BD06607          | 751638          | WMWBARAP_1404     |
| BD06608          | 751638          | WMWBARAP_1404     |
| BD06609          | 751638          | WMWBARAP_1404     |
| BD06610          | 751638          | WMWBARAP_1404     |
| BD06611          | 751638          | WMWBARAP_1404     |
| BD06612          | 751638          | WMWBARAP_1404     |
| BD06613          | 751638          | WMWBARAP_1404     |
| BD06614          | 751639          | WMWBARAP_1404     |
| BD06615          | 751639          | WMWBARAP_1404     |
| BD06616          | 751639          | WMWBARAP_1404     |
| BD06617          | 751639          | WMWBARAP_1404     |
| BD06618          | 751639          | WMWBARAP_1404     |
| BD06619          | 751639          | WMWBARAP_1404     |
| BD06620          | 751639          | WMWBARAP_1404     |
| BD06621          | 751639          | WMWBARAP_1404     |
| BD06622          | 751639          | WMWBARAP_1404     |
| BD06623          | 751639          | WMWBARAP_1404     |
| BD06775          | 752153          | WMWBARAP_1404     |
| BD06776          | 752153          | WMWBARAP_1404     |
| BD06777          | 752153          | WMWBARAP_1404     |
| BD06778          | 752153          | WMWBARAP_1404     |
| BD06779          | 752153          | WMWBARAP_1404     |
| BD06780          | 752153          | WMWBARAP_1404     |
| BD06781          | 752153          | WMWBARAP_1404     |
| BD06826          | 752153          | WMWBARAP_1404     |
| BD06827          | 752153          | WMWBARAP_1404     |
| BD06828          | 752153          | WMWBARAP_1404     |
| BD06829          | 752154          | WMWBARAP_1404     |

|         |        |               |
|---------|--------|---------------|
| BD06830 | 752154 | WMWBARAP_1404 |
| BD06831 | 752154 | WMWBARAP_1404 |
| BD06832 | 752154 | WMWBARAP_1404 |
| BD06833 | 752154 | WMWBARAP_1404 |
| BD06834 | 752154 | WMWBARAP_1404 |
| BD06835 | 752154 | WMWBARAP_1404 |
| BD06836 | 752154 | WMWBARAP_1404 |
| BD06837 | 752154 | WMWBARAP_1404 |
| BD06838 | 752154 | WMWBARAP_1404 |
| BD06839 | 752155 | WMWBARAP_1404 |
| BD06840 | 752155 | WMWBARAP_1404 |
| BD08112 | 753964 | WMWBARAP_1404 |
| BD08113 | 753964 | WMWBARAP_1404 |
| BD08114 | 753964 | WMWBARAP_1404 |
| BD08115 | 753964 | WMWBARAP_1404 |
| BD08116 | 753964 | WMWBARAP_1404 |

4. All of the above samples were prepared and analyzed by Standard Method 5310B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- All calibration criteria were met.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was  $<1/2RL$ .
- All continued calibration verifications (CCVs) were within the acceptance range.
- All continued calibration blanks (CCBs) were  $<1/2RL$ .

#### Matrix Specific Quality Control Procedures:

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

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-15

**Location Code:** WMWBARAP  
**Collected:** 4/3/23 09:12  
**Customer ID:**  
**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06604

| Name                                | Prepared     | Analyzed            | Vio Spec | DF    | Results                             | Units | MDL      | RL         | Q |
|-------------------------------------|--------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| <b>Analytical Method: EPA 200.7</b> |              | <b>Analyst: ABB</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Boron, Total                      | 4/6/23 06:51 | 4/6/23 11:44        |          | 1.015 | 0.0713                              | mg/L  | 0.030000 | 0.1015     | J |
| * Calcium, Total                    | 4/6/23 06:51 | 4/6/23 11:44        |          | 1.015 | 6.76                                | mg/L  | 0.070035 | 0.406      |   |
| * Iron, Total                       | 4/6/23 06:51 | 4/6/23 13:12        |          | 101.5 | 99.0                                | mg/L  | 0.8120   | 4.06       |   |
| * Lithium, Total                    | 4/6/23 06:51 | 4/6/23 11:44        |          | 1.015 | 0.0189                              | mg/L  | 0.007105 | 0.01999956 | J |
| * Magnesium, Total                  | 4/6/23 06:51 | 4/6/23 11:44        |          | 1.015 | 5.38                                | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Total                 | 4/6/23 06:51 | 4/6/23 11:44        |          | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Total (calc.)             | 4/6/23 06:51 | 4/6/23 11:44        |          | 1     | 13.0                                | mg/L  |          |            |   |
| * Silicon, Total                    | 4/6/23 06:51 | 4/6/23 11:44        |          | 1.015 | 6.07                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Total                     | 4/6/23 06:51 | 4/6/23 11:44        |          | 1.015 | 39.0                                | mg/L  | 0.04060  | 0.406      |   |
| <b>Analytical Method: EPA 200.7</b> |              | <b>Analyst: ABB</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Boron, Dissolved                  | 4/6/23 09:44 | 4/7/23 11:20        |          | 1.015 | 0.0825                              | mg/L  | 0.030000 | 0.1015     | J |
| * Calcium, Dissolved                | 4/6/23 09:44 | 4/7/23 11:20        |          | 1.015 | 6.62                                | mg/L  | 0.070035 | 0.406      |   |
| * Iron, Dissolved                   | 4/6/23 09:44 | 4/7/23 12:39        |          | 101.5 | 98.0                                | mg/L  | 0.8120   | 4.06       |   |
| * Lithium, Dissolved                | 4/6/23 09:44 | 4/7/23 11:20        |          | 1.015 | 0.0172                              | mg/L  | 0.007105 | 0.01999956 | J |
| * Magnesium, Dissolved              | 4/6/23 09:44 | 4/7/23 11:20        |          | 1.015 | 5.39                                | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Dissolved             | 4/6/23 09:44 | 4/7/23 11:20        |          | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Dissolved (calc.)         | 4/6/23 09:44 | 4/7/23 11:20        |          | 1     | 13.2                                | mg/L  |          |            |   |
| * Silicon, Dissolved                | 4/6/23 09:44 | 4/7/23 11:20        |          | 1.015 | 6.18                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Dissolved                 | 4/6/23 09:44 | 4/7/23 11:20        |          | 1.015 | 38.5                                | mg/L  | 0.04060  | 0.406      |   |
| <b>Analytical Method: EPA 200.8</b> |              | <b>Analyst: DLJ</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Antimony, Total                   | 4/6/23 06:51 | 4/7/23 11:31        |          | 1.015 | Not Detected                        | mg/L  | 0.000710 | 0.001015   | U |
| * Aluminum, Total                   | 4/6/23 06:51 | 4/7/23 11:31        |          | 1.015 | Not Detected                        | mg/L  | 0.009135 | 0.05075    | U |
| * Arsenic, Total                    | 4/6/23 06:51 | 4/7/23 11:31        |          | 1.015 | 0.0200                              | mg/L  | 0.000112 | 0.000203   |   |
| * Barium, Total                     | 4/6/23 06:51 | 4/7/23 11:31        |          | 1.015 | 0.0810                              | mg/L  | 0.000508 | 0.001015   |   |
| * Beryllium, Total                  | 4/6/23 06:51 | 4/7/23 11:31        |          | 1.015 | Not Detected                        | mg/L  | 0.000406 | 0.001015   | U |
| * Cadmium, Total                    | 4/6/23 06:51 | 4/7/23 11:31        |          | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |
| * Chromium, Total                   | 4/6/23 06:51 | 4/7/23 11:31        |          | 1.015 | 0.000638                            | mg/L  | 0.000203 | 0.001015   | J |
| * Cobalt, Total                     | 4/6/23 06:51 | 4/7/23 11:31        |          | 1.015 | 0.0345                              | mg/L  | 0.000068 | 0.000203   |   |
| * Lead, Total                       | 4/6/23 06:51 | 4/7/23 11:31        |          | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |
| * Manganese, Total                  | 4/6/23 06:51 | 4/7/23 11:31        |          | 1.015 | 0.628                               | mg/L  | 0.000152 | 0.001015   |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-15

**Location Code:** WMWBARAP  
**Collected:** 4/3/23 09:12  
**Customer ID:**  
**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06604

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/6/23 06:51  | 4/7/23 11:31        |          | 1.015 | 4.80         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/6/23 06:51  | 4/7/23 11:31        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/6/23 06:51  | 4/7/23 11:31        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:11        |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:11        |          | 1.015 | Not Detected | mg/L       | 0.009135 | 0.05075  | U |
| * Arsenic, Dissolved                   | 4/6/23 09:44  | 4/6/23 11:11        |          | 1.015 | 0.0219       | mg/L       | 0.000112 | 0.000203 |   |
| * Barium, Dissolved                    | 4/6/23 09:44  | 4/6/23 11:11        |          | 1.015 | 0.0875       | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/6/23 09:44  | 4/6/23 11:11        |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/6/23 09:44  | 4/6/23 11:11        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:11        |          | 1.015 | 0.000225     | mg/L       | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved                    | 4/6/23 09:44  | 4/6/23 11:11        |          | 1.015 | 0.0376       | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/6/23 09:44  | 4/6/23 11:11        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/6/23 09:44  | 4/6/23 11:11        |          | 1.015 | 0.632        | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/6/23 09:44  | 4/6/23 11:11        |          | 1.015 | 4.79         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:11        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:11        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/11/23 18:35 | 4/11/23 22:33       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/6/23 08:53  | 4/6/23 08:53        |          | 1     | 0.228        | mg/L as N  | 0.20     | 0.3      | J |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/14/23 14:44 | 4/14/23 15:50       |          | 1     | 67.3         | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/6/23 10:55  | 4/7/23 12:30        |          | 1     | 285          | mg/L       |          | 25       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/14/23 14:44 | 4/14/23 15:50       |          | 1     | 67.3         | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 4/14/23 14:44 | 4/14/23 15:50       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/5/23 14:24  | 4/5/23 14:24        |          | 1     | 4.96         | mg/L       | 1.00     | 2        |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-15

**Location Code:** WMWBARAP

**Collected:** 4/3/23 09:12

**Customer ID:**

**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06604

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Chloride                                   | 4/12/23 11:07 | 4/12/23 11:07       |          | 5  | 91.5    | mg/L  | 2.50 | 2.5   |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Fluoride                                   | 4/13/23 10:22 | 4/13/23 10:22       |          | 1  | 0.260   | mg/L  | 0.06 | 0.125 |    |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |         |       |      |       |    |
| * Sulfate                                    | 4/6/23 10:00  | 4/6/23 10:00        |          | 1  | 8.28    | mg/L  | 0.6  | 2     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: AWG</b> |          |    |         |       |      |       |    |
| Conductivity                                 | 4/3/23 09:09  | 4/3/23 09:09        |          |    | 592.60  | uS/cm |      |       | FA |
| pH   | 4/3/23 09:09  | 4/3/23 09:09        |          |    | 6.63    | SU    |      |       | FA |
| Temperature                                  | 4/3/23 09:09  | 4/3/23 09:09        |          |    | 21.23   | C     |      |       | FA |
| Turbidity                                    | 4/3/23 09:09  | 4/3/23 09:09        |          |    | 8.81    | NTU   |      |       | FA |
| Sulfide                                      | 4/3/23 09:09  | 4/3/23 09:09        |          |    | 0       | mg/L  |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/3/23 09:12  
**Customer ID:**  
**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-15

**Laboratory ID Number:** BD06604

| Sample  | Analysis             | Units | MB         | MB       |       |        |        | Standard |                 | Rec  |             | Prec  | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
|         |                      |       |            | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec  | Limit       |       |       |
| BD06614 | Aluminum, Dissolved  | mg/L  | -0.000829  | 0.0198   | 0.100 | 0.101  | 0.103  | 0.103    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 1.96  | 20.0  |
| BD06613 | Aluminum, Total      | mg/L  | 0.000464   | 0.0198   | 0.100 | 0.104  | 0.106  | 0.103    | 0.0850 to 0.115 | 104  | 70.0 to 130 | 1.90  | 20.0  |
| BD06614 | Antimony, Dissolved  | mg/L  | 0.000282   | 0.00100  | 0.100 | 0.105  | 0.107  | 0.105    | 0.0850 to 0.115 | 105  | 70.0 to 130 | 1.89  | 20.0  |
| BD06613 | Antimony, Total      | mg/L  | 0.000260   | 0.00100  | 0.100 | 0.0945 | 0.0970 | 0.0922   | 0.0850 to 0.115 | 94.5 | 70.0 to 130 | 2.61  | 20.0  |
| BD06614 | Arsenic, Dissolved   | mg/L  | 0.000293   | 0.000200 | 0.100 | 0.110  | 0.112  | 0.108    | 0.0850 to 0.115 | 109  | 70.0 to 130 | 1.80  | 20.0  |
| BD06613 | Arsenic, Total       | mg/L  | 0.000185   | 0.000200 | 0.100 | 0.0996 | 0.0980 | 0.101    | 0.0850 to 0.115 | 99.2 | 70.0 to 130 | 1.62  | 20.0  |
| BD06614 | Barium, Dissolved    | mg/L  | 0.0000004  | 0.00100  | 0.100 | 0.111  | 0.114  | 0.104    | 0.0850 to 0.115 | 103  | 70.0 to 130 | 2.67  | 20.0  |
| BD06613 | Barium, Total        | mg/L  | 0.0000235  | 0.00100  | 0.100 | 0.272  | 0.282  | 0.0935   | 0.0850 to 0.115 | 83.0 | 70.0 to 130 | 3.61  | 20.0  |
| BD06614 | Beryllium, Dissolved | mg/L  | 0.0000122  | 0.000880 | 0.100 | 0.0988 | 0.102  | 0.0962   | 0.0850 to 0.115 | 98.8 | 70.0 to 130 | 3.19  | 20.0  |
| BD06613 | Beryllium, Total     | mg/L  | 0.0000089  | 0.000880 | 0.100 | 0.0946 | 0.0943 | 0.0982   | 0.0850 to 0.115 | 94.6 | 70.0 to 130 | 0.318 | 20.0  |
| BD06614 | Boron, Dissolved     | mg/L  | 0.000167   | 0.0650   | 1.00  | 1.32   | 1.30   | 1.01     | 0.850 to 1.15   | 102  | 70.0 to 130 | 1.53  | 20.0  |
| BD06613 | Boron, Total         | mg/L  | -0.00119   | 0.0650   | 1.00  | 2.00   | 1.98   | 0.989    | 0.850 to 1.15   | 104  | 70.0 to 130 | 1.01  | 20.0  |
| BD06614 | Cadmium, Dissolved   | mg/L  | 0.0000050  | 0.000147 | 0.100 | 0.107  | 0.109  | 0.111    | 0.0850 to 0.115 | 107  | 70.0 to 130 | 1.85  | 20.0  |
| BD06613 | Cadmium, Total       | mg/L  | 0.0000000  | 0.000147 | 0.100 | 0.0986 | 0.0971 | 0.0971   | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 1.53  | 20.0  |
| BD06614 | Calcium, Dissolved   | mg/L  | -0.0141    | 0.152    | 5.00  | 5.35   | 5.12   | 4.92     | 4.25 to 5.75    | 96.0 | 70.0 to 130 | 4.39  | 20.0  |
| BD06613 | Calcium, Total       | mg/L  | 0.00187    | 0.152    | 5.00  | 63.1   | 64.0   | 4.92     | 4.25 to 5.75    | 78.0 | 70.0 to 130 | 1.42  | 20.0  |
| BD06612 | Chloride             | mg/L  | 0.0720     | 1.00     | 10.0  | 17.6   | 17.8   | 10.3     | 9.00 to 11.0    | 102  | 80.0 to 120 | 1.13  | 20.0  |
| BD06614 | Chromium, Dissolved  | mg/L  | -0.0000464 | 0.000440 | 0.100 | 0.106  | 0.110  | 0.111    | 0.0850 to 0.115 | 106  | 70.0 to 130 | 3.70  | 20.0  |
| BD06613 | Chromium, Total      | mg/L  | 0.0000577  | 0.000440 | 0.100 | 0.0980 | 0.0992 | 0.0984   | 0.0850 to 0.115 | 97.5 | 70.0 to 130 | 1.22  | 20.0  |
| BD06614 | Cobalt, Dissolved    | mg/L  | -0.0000057 | 0.000147 | 0.100 | 0.108  | 0.111  | 0.110    | 0.0850 to 0.115 | 108  | 70.0 to 130 | 2.74  | 20.0  |
| BD06613 | Cobalt, Total        | mg/L  | -0.0000008 | 0.000147 | 0.100 | 0.102  | 0.103  | 0.101    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 0.976 | 20.0  |
| BD06613 | Fluoride             | mg/L  | 0.0117     | 0.125    | 2.50  | 2.69   | 2.66   | 2.57     | 2.25 to 2.75    | 108  | 80.0 to 120 | 1.12  | 20.0  |
| BD06614 | Iron, Dissolved      | mg/L  | -0.000107  | 0.0176   | 0.2   | 0.757  | 0.755  | 0.202    | 0.170 to 0.230  | 97.5 | 70.0 to 130 | 0.265 | 20.0  |
| BD06613 | Iron, Total          | mg/L  | -0.000067  | 0.0176   | 0.2   | 100    | 100    | 0.194    | 0.170 to 0.230  | -500 | 70.0 to 130 | 0.00  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/3/23 09:12

**Customer ID:**

**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-15

**Laboratory ID Number:** BD06604

| Sample  | Analysis               | Units | MB        |          | Spike | MS      | MSD     | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB        | Limit    |       |         |         | Standard | Limit              | Rec  | Limit       |       |       |
| BD06614 | Lead, Dissolved        | mg/L  | 0.0000188 | 0.000147 | 0.100 | 0.0994  | 0.0993  | 0.101    | 0.0850 to 0.115    | 99.4 | 70.0 to 130 | 0.101 | 20.0  |
| BD06613 | Lead, Total            | mg/L  | 0.0000100 | 0.000147 | 0.100 | 0.0971  | 0.0966  | 0.0990   | 0.0850 to 0.115    | 97.1 | 70.0 to 130 | 0.516 | 20.0  |
| BD06614 | Lithium, Dissolved     | mg/L  | 0.000058  | 0.0154   | 0.200 | 0.207   | 0.204   | 0.197    | 0.170 to 0.230     | 104  | 70.0 to 130 | 1.46  | 20.0  |
| BD06613 | Lithium, Total         | mg/L  | 0.000883  | 0.0154   | 0.200 | 0.202   | 0.201   | 0.191    | 0.170 to 0.230     | 101  | 70.0 to 130 | 0.496 | 20.0  |
| BD06614 | Magnesium, Dissolved   | mg/L  | -0.00906  | 0.0462   | 5.00  | 5.15    | 4.89    | 4.92     | 4.25 to 5.75       | 98.5 | 70.0 to 130 | 5.18  | 20.0  |
| BD06613 | Magnesium, Total       | mg/L  | -0.00266  | 0.0462   | 5.00  | 16.8    | 16.7    | 4.86     | 4.25 to 5.75       | 96.0 | 70.0 to 130 | 0.597 | 20.0  |
| BD06614 | Manganese, Dissolved   | mg/L  | 0.0000223 | 0.00033  | 0.100 | 0.115   | 0.120   | 0.102    | 0.0850 to 0.115    | 98.9 | 70.0 to 130 | 4.26  | 20.0  |
| BD06613 | Manganese, Total       | mg/L  | 0.0000173 | 0.00033  | 0.100 | 0.894   | 0.904   | 0.101    | 0.0850 to 0.115    | 81.0 | 70.0 to 130 | 1.11  | 20.0  |
| BD06613 | Mercury, Total by CVAA | mg/L  | 3.000E-05 | 0.000500 | 0.004 | 0.00402 | 0.00407 | 0.00409  | 0.00340 to 0.00460 | 100  | 70.0 to 130 | 1.24  | 20.0  |
| BD06614 | Molybdenum, Dissolved  | mg/L  | 0.000012  | 0.0100   | 0.2   | 0.206   | 0.206   | 0.203    | 0.170 to 0.230     | 103  | 70.0 to 130 | 0.00  | 20.0  |
| BD06613 | Molybdenum, Total      | mg/L  | 0.000     | 0.0100   | 0.2   | 0.200   | 0.199   | 0.199    | 0.170 to 0.230     | 100  | 70.0 to 130 | 0.501 | 20.0  |
| BD06614 | Potassium, Dissolved   | mg/L  | 0.0134    | 0.367    | 10.0  | 11.0    | 11.2    | 10.4     | 8.50 to 11.5       | 99.1 | 70.0 to 130 | 1.80  | 20.0  |
| BD06613 | Potassium, Total       | mg/L  | 0.0131    | 0.367    | 10.0  | 12.3    | 12.3    | 10.0     | 8.50 to 11.5       | 99.9 | 70.0 to 130 | 0.00  | 20.0  |
| BD06614 | Selenium, Dissolved    | mg/L  | 0.0000543 | 0.00100  | 0.100 | 0.109   | 0.112   | 0.109    | 0.0850 to 0.115    | 109  | 70.0 to 130 | 2.71  | 20.0  |
| BD06613 | Selenium, Total        | mg/L  | 0.000122  | 0.00100  | 0.100 | 0.103   | 0.0993  | 0.103    | 0.0850 to 0.115    | 103  | 70.0 to 130 | 3.66  | 20.0  |
| BD06614 | Silicon, Dissolved     | mg/L  | 0.000048  | 0.0440   | 1.00  | 6.94    | 6.92    | 1.01     | 0.850 to 1.15      | 102  | 70.0 to 130 | 0.289 | 20.0  |
| BD06613 | Silicon, Total         | mg/L  | 0.00174   | 0.0440   | 1.00  | 14.7    | 14.7    | 0.987    | 0.850 to 1.15      | 90.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD06614 | Sodium, Dissolved      | mg/L  | -0.00120  | 0.0880   | 5.00  | 123     | 122     | 4.73     | 4.25 to 5.75       | -120 | 70.0 to 130 | 0.816 | 20.0  |
| BD06613 | Sodium, Total          | mg/L  | 0.00274   | 0.0880   | 5.00  | 31.5    | 31.4    | 4.66     | 4.25 to 5.75       | 94.0 | 70.0 to 130 | 0.318 | 20.0  |
| BD06613 | Sulfate                | mg/L  | 0.439     | 2.0      | 20.0  | 29.1    | 28.9    | 20.2     | 18.0 to 22.0       | 80.5 | 80.0 to 120 | 0.690 | 20.0  |
| BD06614 | Thallium, Dissolved    | mg/L  | 0.0000007 | 0.000147 | 0.100 | 0.103   | 0.0996  | 0.102    | 0.0850 to 0.115    | 103  | 70.0 to 130 | 3.36  | 20.0  |
| BD06613 | Thallium, Total        | mg/L  | 0.0000062 | 0.000147 | 0.100 | 0.100   | 0.0988  | 0.102    | 0.0850 to 0.115    | 100  | 70.0 to 130 | 1.21  | 20.0  |
| BD06613 | Total Organic Carbon   | mg/L  | 0.142     | 1.00     | 10.0  | 21.8    | 20.3    | 24.2     |                    | 106  | 80.0 to 120 | 7.13  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/3/23 09:12

**Customer ID:**

**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-15

**Laboratory ID Number:** BD06604

| Sample  | Analysis                  | Units      | MB     | MB Limit | Spike | MS   | Sample Duplicate | Standard | Standard Limit | Rec  | Rec Limit   | Prec  | Prec Limit |
|---------|---------------------------|------------|--------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BD06618 | Alkalinity to pH 4.5      | mg CaCO3/L |        |          |       |      | 25.3             | 50.5     | 45.0 to 55.0   |      |             | 0.794 | 10.0       |
| BD06613 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.02   | 0.200    | 2.00  | 1.74 | 0.240            | 2.00     | 1.80 to 2.20   | 75.0 | 90.0 to 110 | 0.418 | 15.0       |
| BD06611 | Solids, Dissolved         | mg/L       | 0.0000 | 25.0     |       |      | 393              | 50.0     | 40.0 to 60.0   |      |             | 1.77  | 10.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond Equipment Blank-1

**Location Code:** WMWBARAPEB  
**Collected:** 4/3/23 09:40  
**Customer ID:**  
**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06605

| Name                                | Prepared      | Analyzed      | Vio Spec            | DF    | Results      | Units                               | MDL      | RL         | Q |
|-------------------------------------|---------------|---------------|---------------------|-------|--------------|-------------------------------------|----------|------------|---|
| <b>Analytical Method: EPA 200.7</b> |               |               | <b>Analyst: ABB</b> |       |              | <b>Preparation Method: EPA 1638</b> |          |            |   |
| * Boron, Total                      | 4/6/23 06:51  | 4/6/23 11:47  |                     | 1.015 | Not Detected | mg/L                                | 0.030000 | 0.1015     | U |
| * Calcium, Total                    | 4/6/23 06:51  | 4/6/23 11:47  |                     | 1.015 | Not Detected | mg/L                                | 0.070035 | 0.406      | U |
| * Iron, Total                       | 4/6/23 06:51  | 4/6/23 11:47  |                     | 1.015 | Not Detected | mg/L                                | 0.008120 | 0.0406     | U |
| * Lithium, Total                    | 4/6/23 06:51  | 4/6/23 11:47  |                     | 1.015 | Not Detected | mg/L                                | 0.007105 | 0.01999956 | U |
| * Magnesium, Total                  | 4/6/23 06:51  | 4/6/23 11:47  |                     | 1.015 | Not Detected | mg/L                                | 0.021315 | 0.406      | U |
| * Molybdenum, Total                 | 4/6/23 06:51  | 4/6/23 11:47  |                     | 1.015 | Not Detected | mg/L                                | 0.005075 | 0.01015    | U |
| * Silica, Total (calc.)             | 4/6/23 06:51  | 4/6/23 11:47  |                     | 1     | Not Detected | mg/L                                |          |            |   |
| * Silicon, Total                    | 4/6/23 06:51  | 4/6/23 11:47  |                     | 1.015 | Not Detected | mg/L                                | 0.02030  | 0.25375    | U |
| * Sodium, Total                     | 4/6/23 06:51  | 4/6/23 11:47  |                     | 1.015 | 0.126        | mg/L                                | 0.04060  | 0.406      | J |
| <b>Analytical Method: EPA 200.8</b> |               |               | <b>Analyst: DLJ</b> |       |              | <b>Preparation Method: EPA 1638</b> |          |            |   |
| * Antimony, Total                   | 4/6/23 06:51  | 4/7/23 11:35  |                     | 1.015 | Not Detected | mg/L                                | 0.000710 | 0.001015   | U |
| * Aluminum, Total                   | 4/6/23 06:51  | 4/7/23 11:35  |                     | 1.015 | Not Detected | mg/L                                | 0.009135 | 0.05075    | U |
| * Arsenic, Total                    | 4/6/23 06:51  | 4/7/23 11:35  |                     | 1.015 | Not Detected | mg/L                                | 0.000112 | 0.000203   | U |
| * Barium, Total                     | 4/6/23 06:51  | 4/7/23 11:35  |                     | 1.015 | Not Detected | mg/L                                | 0.000508 | 0.001015   | U |
| * Beryllium, Total                  | 4/6/23 06:51  | 4/7/23 11:35  |                     | 1.015 | Not Detected | mg/L                                | 0.000406 | 0.001015   | U |
| * Cadmium, Total                    | 4/6/23 06:51  | 4/7/23 11:35  |                     | 1.015 | Not Detected | mg/L                                | 0.000068 | 0.000203   | U |
| * Chromium, Total                   | 4/6/23 06:51  | 4/7/23 11:35  |                     | 1.015 | 0.000253     | mg/L                                | 0.000203 | 0.001015   | J |
| * Cobalt, Total                     | 4/6/23 06:51  | 4/7/23 11:35  |                     | 1.015 | Not Detected | mg/L                                | 0.000068 | 0.000203   | U |
| * Lead, Total                       | 4/6/23 06:51  | 4/7/23 11:35  |                     | 1.015 | Not Detected | mg/L                                | 0.000068 | 0.000203   | U |
| * Manganese, Total                  | 4/6/23 06:51  | 4/7/23 11:35  |                     | 1.015 | Not Detected | mg/L                                | 0.000152 | 0.001015   | U |
| * Potassium, Total                  | 4/6/23 06:51  | 4/7/23 11:35  |                     | 1.015 | Not Detected | mg/L                                | 0.169505 | 0.5075     | U |
| * Selenium, Total                   | 4/6/23 06:51  | 4/7/23 11:35  |                     | 1.015 | Not Detected | mg/L                                | 0.000508 | 0.001015   | U |
| * Thallium, Total                   | 4/6/23 06:51  | 4/7/23 11:35  |                     | 1.015 | Not Detected | mg/L                                | 0.000068 | 0.000203   | U |
| <b>Analytical Method: EPA 245.1</b> |               |               | <b>Analyst: CRB</b> |       |              |                                     |          |            |   |
| * Mercury, Total by CVAA            | 4/11/23 18:35 | 4/11/23 22:37 |                     | 1     | Not Detected | mg/L                                | 0.0003   | 0.0005     | U |
| <b>Analytical Method: EPA 353.2</b> |               |               | <b>Analyst: SC</b>  |       |              |                                     |          |            |   |
| * Nitrogen, Nitrate/Nitrite         | 4/6/23 08:54  | 4/6/23 08:54  |                     | 1     | Not Detected | mg/L as N                           | 0.20     | 0.3        | U |
| <b>Analytical Method: SM 2540C</b>  |               |               | <b>Analyst: CNJ</b> |       |              |                                     |          |            |   |
| * Solids, Dissolved                 | 4/6/23 10:55  | 4/7/23 12:30  |                     | 1     | Not Detected | mg/L                                |          | 25         | U |

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

**Comments:**

# Certificate Of Analysis

**Description:** Barry Ash Pond Equipment Blank-1

**Location Code:** WMWBARAPEB

**Collected:** 4/3/23 09:40

**Customer ID:**

**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06605

| Name                                       | Prepared      | Analyzed            | Vio Spec | DF | Results      | Units | MDL  | RL    | Q |
|--|---------------|---------------------|----------|----|--------------|-------|------|-------|---|
| <b>Analytical Method: SM 5310 B</b>        |               | <b>Analyst: SC</b>  |          |    |              |       |      |       |   |
| * Total Organic Carbon                     | 4/5/23 14:39  | 4/5/23 14:39        |          | 1  | Not Detected | mg/L  | 1.00 | 2     | U |
| <b>Analytical Method: SM4500Cl E</b>       |               | <b>Analyst: CES</b> |          |    |              |       |      |       |   |
| * Chloride                                 | 4/12/23 11:05 | 4/12/23 11:05       |          | 1  | Not Detected | mg/L  | 0.50 | 0.5   | U |
| <b>Analytical Method: SM4500F G 2017</b>   |               | <b>Analyst: CES</b> |          |    |              |       |      |       |   |
| * Fluoride                                 | 4/13/23 10:23 | 4/13/23 10:23       |          | 1  | Not Detected | mg/L  | 0.06 | 0.125 | U |
| <b>Analytical Method: SM4500SO4 E 2011</b> |               | <b>Analyst: JCC</b> |          |    |              |       |      |       |   |
| * Sulfate                                  | 4/6/23 10:02  | 4/6/23 10:02        |          | 1  | Not Detected | mg/L  | 0.6  | 2     | U |

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

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**Comments:**

# Batch QC Summary

**Customer Account:** WMWBARAPEB

**Sample Date:** 4/3/23 09:40

**Customer ID:**

**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond Equipment Blank-1

**Laboratory ID Number:** BD06605

| Sample  | Analysis               | Units | MB         | MB       |       |         |         | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       |            | Limit    | Spike | MS      | MSD     | Standard | Limit              | Rec  | Limit       |       |       |
| BD06613 | Aluminum, Total        | mg/L  | 0.000464   | 0.0198   | 0.100 | 0.104   | 0.106   | 0.103    | 0.0850 to 0.115    | 104  | 70.0 to 130 | 1.90  | 20.0  |
| BD06613 | Antimony, Total        | mg/L  | 0.000260   | 0.00100  | 0.100 | 0.0945  | 0.0970  | 0.0922   | 0.0850 to 0.115    | 94.5 | 70.0 to 130 | 2.61  | 20.0  |
| BD06613 | Arsenic, Total         | mg/L  | 0.0000185  | 0.000200 | 0.100 | 0.0996  | 0.0980  | 0.101    | 0.0850 to 0.115    | 99.2 | 70.0 to 130 | 1.62  | 20.0  |
| BD06613 | Barium, Total          | mg/L  | 0.0000235  | 0.00100  | 0.100 | 0.272   | 0.282   | 0.0935   | 0.0850 to 0.115    | 83.0 | 70.0 to 130 | 3.61  | 20.0  |
| BD06613 | Beryllium, Total       | mg/L  | 0.0000089  | 0.000880 | 0.100 | 0.0946  | 0.0943  | 0.0982   | 0.0850 to 0.115    | 94.6 | 70.0 to 130 | 0.318 | 20.0  |
| BD06613 | Boron, Total           | mg/L  | -0.00119   | 0.0650   | 1.00  | 2.00    | 1.98    | 0.989    | 0.850 to 1.15      | 104  | 70.0 to 130 | 1.01  | 20.0  |
| BD06613 | Cadmium, Total         | mg/L  | 0.0000000  | 0.000147 | 0.100 | 0.0986  | 0.0971  | 0.0971   | 0.0850 to 0.115    | 98.6 | 70.0 to 130 | 1.53  | 20.0  |
| BD06613 | Calcium, Total         | mg/L  | 0.00187    | 0.152    | 5.00  | 63.1    | 64.0    | 4.92     | 4.25 to 5.75       | 78.0 | 70.0 to 130 | 1.42  | 20.0  |
| BD06612 | Chloride               | mg/L  | 0.0720     | 1.00     | 10.0  | 17.6    | 17.8    | 10.3     | 9.00 to 11.0       | 102  | 80.0 to 120 | 1.13  | 20.0  |
| BD06613 | Chromium, Total        | mg/L  | 0.0000577  | 0.000440 | 0.100 | 0.0980  | 0.0992  | 0.0984   | 0.0850 to 0.115    | 97.5 | 70.0 to 130 | 1.22  | 20.0  |
| BD06613 | Cobalt, Total          | mg/L  | -0.0000008 | 0.000147 | 0.100 | 0.102   | 0.103   | 0.101    | 0.0850 to 0.115    | 101  | 70.0 to 130 | 0.976 | 20.0  |
| BD06613 | Fluoride               | mg/L  | 0.0117     | 0.125    | 2.50  | 2.69    | 2.66    | 2.57     | 2.25 to 2.75       | 108  | 80.0 to 120 | 1.12  | 20.0  |
| BD06613 | Iron, Total            | mg/L  | -0.000067  | 0.0176   | 0.2   | 100     | 100     | 0.194    | 0.170 to 0.230     | -500 | 70.0 to 130 | 0.00  | 20.0  |
| BD06613 | Lead, Total            | mg/L  | 0.0000100  | 0.000147 | 0.100 | 0.0971  | 0.0966  | 0.0990   | 0.0850 to 0.115    | 97.1 | 70.0 to 130 | 0.516 | 20.0  |
| BD06613 | Lithium, Total         | mg/L  | 0.000883   | 0.0154   | 0.200 | 0.202   | 0.201   | 0.191    | 0.170 to 0.230     | 101  | 70.0 to 130 | 0.496 | 20.0  |
| BD06613 | Magnesium, Total       | mg/L  | -0.00266   | 0.0462   | 5.00  | 16.8    | 16.7    | 4.86     | 4.25 to 5.75       | 96.0 | 70.0 to 130 | 0.597 | 20.0  |
| BD06613 | Manganese, Total       | mg/L  | 0.0000173  | 0.00033  | 0.100 | 0.894   | 0.904   | 0.101    | 0.0850 to 0.115    | 81.0 | 70.0 to 130 | 1.11  | 20.0  |
| BD06613 | Mercury, Total by CVAA | mg/L  | 3.000E-05  | 0.000500 | 0.004 | 0.00402 | 0.00407 | 0.00409  | 0.00340 to 0.00460 | 100  | 70.0 to 130 | 1.24  | 20.0  |
| BD06613 | Molybdenum, Total      | mg/L  | 0.000      | 0.0100   | 0.2   | 0.200   | 0.199   | 0.199    | 0.170 to 0.230     | 100  | 70.0 to 130 | 0.501 | 20.0  |
| BD06613 | Potassium, Total       | mg/L  | 0.0131     | 0.367    | 10.0  | 12.3    | 12.3    | 10.0     | 8.50 to 11.5       | 99.9 | 70.0 to 130 | 0.00  | 20.0  |
| BD06613 | Selenium, Total        | mg/L  | 0.000122   | 0.00100  | 0.100 | 0.103   | 0.0993  | 0.103    | 0.0850 to 0.115    | 103  | 70.0 to 130 | 3.66  | 20.0  |
| BD06613 | Silicon, Total         | mg/L  | 0.00174    | 0.0440   | 1.00  | 14.7    | 14.7    | 0.987    | 0.850 to 1.15      | 90.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD06613 | Sodium, Total          | mg/L  | 0.00274    | 0.0880   | 5.00  | 31.5    | 31.4    | 4.66     | 4.25 to 5.75       | 94.0 | 70.0 to 130 | 0.318 | 20.0  |
| BD06613 | Sulfate                | mg/L  | 0.439      | 2.0      | 20.0  | 29.1    | 28.9    | 20.2     | 18.0 to 22.0       | 80.5 | 80.0 to 120 | 0.690 | 20.0  |

**Comments:**

# Batch QC Summary

**Customer Account:** WMWBARAPEB

**Sample Date:** 4/3/23 09:40

**Customer ID:**

**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond Equipment Blank-1

**Laboratory ID Number:** BD06605

| Sample  | Analysis             | Units | MB        | MB       |       |       |        | Standard |                 | Rec |             | Prec |       |
|---------|----------------------|-------|-----------|----------|-------|-------|--------|----------|-----------------|-----|-------------|------|-------|
|         |                      |       |           | Limit    | Spike | MS    | MSD    | Standard | Limit           | Rec | Limit       | Prec | Limit |
| BD06613 | Thallium, Total      | mg/L  | 0.0000062 | 0.000147 | 0.100 | 0.100 | 0.0988 | 0.102    | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.21 | 20.0  |
| BD06613 | Total Organic Carbon | mg/L  | 0.142     | 1.00     | 10.0  | 21.8  | 20.3   | 24.2     |                 | 106 | 80.0 to 120 | 7.13 | 20.0  |

**Comments:**

## Batch QC Summary

**Customer Account:** WMWBARAPEB

**Sample Date:** 4/3/23 09:40

**Customer ID:**

**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond Equipment Blank-1

**Laboratory ID Number:** BD06605

| Sample  | Analysis                  | Units     | MB     | MB<br>Limit | Spike | MS   | Sample<br>Duplicate | Standard | Standard<br>Limit | Rec<br>Limit | Prec        | Prec<br>Limit |      |
|---------|---------------------------|-----------|--------|-------------|-------|------|---------------------|----------|-------------------|--------------|-------------|---------------|------|
| BD06613 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.02   | 0.200       | 2.00  | 1.74 | 0.240               | 2.00     | 1.80 to 2.20      | 75.0         | 90.0 to 110 | 0.418         | 15.0 |
| BD06611 | Solids, Dissolved         | mg/L      | 0.0000 | 25.0        |       |      | 393                 | 50.0     | 40.0 to 60.0      |              |             | 1.77          | 10.0 |

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**Comments:**



# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-24H

**Location Code:** WMWBARAP  
**Collected:** 4/3/23 11:48  
**Customer ID:**  
**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06606

| Name                                | Prepared     | Analyzed            | Vio Spec | DF    | Results                             | Units | MDL      | RL         | Q |
|-------------------------------------|--------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| <b>Analytical Method: EPA 200.7</b> |              | <b>Analyst: ABB</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Boron, Total                      | 4/6/23 06:51 | 4/6/23 11:50        |          | 1.015 | 0.381                               | mg/L  | 0.030000 | 0.1015     |   |
| * Calcium, Total                    | 4/6/23 06:51 | 4/6/23 11:50        |          | 1.015 | 17.8                                | mg/L  | 0.070035 | 0.406      |   |
| * Iron, Total                       | 4/6/23 06:51 | 4/6/23 13:15        |          | 101.5 | 113                                 | mg/L  | 0.8120   | 4.06       |   |
| * Lithium, Total                    | 4/6/23 06:51 | 4/6/23 11:50        |          | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |
| * Magnesium, Total                  | 4/6/23 06:51 | 4/6/23 11:50        |          | 1.015 | 16.4                                | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Total                 | 4/6/23 06:51 | 4/6/23 11:50        |          | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Total (calc.)             | 4/6/23 06:51 | 4/6/23 11:50        |          | 1     | 23.3                                | mg/L  |          |            |   |
| * Silicon, Total                    | 4/6/23 06:51 | 4/6/23 11:50        |          | 1.015 | 10.9                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Total                     | 4/6/23 06:51 | 4/6/23 13:15        |          | 101.5 | 65.7                                | mg/L  | 4.060    | 40.6       |   |
| <b>Analytical Method: EPA 200.7</b> |              | <b>Analyst: ABB</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Boron, Dissolved                  | 4/6/23 09:44 | 4/7/23 11:24        |          | 1.015 | 0.382                               | mg/L  | 0.030000 | 0.1015     |   |
| * Calcium, Dissolved                | 4/6/23 09:44 | 4/7/23 11:24        |          | 1.015 | 17.7                                | mg/L  | 0.070035 | 0.406      |   |
| * Iron, Dissolved                   | 4/6/23 09:44 | 4/7/23 12:43        |          | 101.5 | 109                                 | mg/L  | 0.8120   | 4.06       |   |
| * Lithium, Dissolved                | 4/6/23 09:44 | 4/7/23 11:24        |          | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |
| * Magnesium, Dissolved              | 4/6/23 09:44 | 4/7/23 11:24        |          | 1.015 | 16.4                                | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Dissolved             | 4/6/23 09:44 | 4/7/23 11:24        |          | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Dissolved (calc.)         | 4/6/23 09:44 | 4/7/23 11:24        |          | 1     | 23.5                                | mg/L  |          |            |   |
| * Silicon, Dissolved                | 4/6/23 09:44 | 4/7/23 11:24        |          | 1.015 | 11.0                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Dissolved                 | 4/6/23 09:44 | 4/7/23 12:43        |          | 101.5 | 68.1                                | mg/L  | 4.060    | 40.6       |   |
| <b>Analytical Method: EPA 200.8</b> |              | <b>Analyst: DLJ</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Antimony, Total                   | 4/6/23 06:51 | 4/7/23 11:38        |          | 1.015 | Not Detected                        | mg/L  | 0.000710 | 0.001015   | U |
| * Aluminum, Total                   | 4/6/23 06:51 | 4/7/23 11:38        |          | 1.015 | Not Detected                        | mg/L  | 0.009135 | 0.05075    | U |
| * Arsenic, Total                    | 4/6/23 06:51 | 4/7/23 11:38        |          | 1.015 | 0.0694                              | mg/L  | 0.000112 | 0.000203   |   |
| * Barium, Total                     | 4/6/23 06:51 | 4/7/23 11:38        |          | 1.015 | 0.235                               | mg/L  | 0.000508 | 0.001015   |   |
| * Beryllium, Total                  | 4/6/23 06:51 | 4/7/23 11:38        |          | 1.015 | Not Detected                        | mg/L  | 0.000406 | 0.001015   | U |
| * Cadmium, Total                    | 4/6/23 06:51 | 4/7/23 11:38        |          | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |
| * Chromium, Total                   | 4/6/23 06:51 | 4/7/23 11:38        |          | 1.015 | 0.000781                            | mg/L  | 0.000203 | 0.001015   | J |
| * Cobalt, Total                     | 4/6/23 06:51 | 4/7/23 11:38        |          | 1.015 | 0.00563                             | mg/L  | 0.000068 | 0.000203   |   |
| * Lead, Total                       | 4/6/23 06:51 | 4/7/23 11:38        |          | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |
| * Manganese, Total                  | 4/6/23 06:51 | 4/7/23 11:38        |          | 1.015 | 0.208                               | mg/L  | 0.000152 | 0.001015   |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-24H

**Location Code:** WMWBARAP

**Collected:** 4/3/23 11:48

**Customer ID:**

**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06606

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/6/23 06:51  | 4/7/23 11:38        |          | 1.015 | 2.53         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/6/23 06:51  | 4/7/23 11:38        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/6/23 06:51  | 4/7/23 11:38        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:15        |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:15        |          | 1.015 | Not Detected | mg/L       | 0.009135 | 0.05075  | U |
| * Arsenic, Dissolved                   | 4/6/23 09:44  | 4/6/23 11:15        |          | 1.015 | 0.0762       | mg/L       | 0.000112 | 0.000203 |   |
| * Barium, Dissolved                    | 4/6/23 09:44  | 4/6/23 11:15        |          | 1.015 | 0.232        | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/6/23 09:44  | 4/6/23 11:15        |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/6/23 09:44  | 4/6/23 11:15        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:15        |          | 1.015 | 0.000766     | mg/L       | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved                    | 4/6/23 09:44  | 4/6/23 11:15        |          | 1.015 | 0.00571      | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/6/23 09:44  | 4/6/23 11:15        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/6/23 09:44  | 4/6/23 11:15        |          | 1.015 | 0.197        | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/6/23 09:44  | 4/6/23 11:15        |          | 1.015 | 2.47         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:15        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:15        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/11/23 18:35 | 4/11/23 22:41       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/6/23 08:56  | 4/6/23 08:56        |          | 1     | 0.274        | mg/L as N  | 0.20     | 0.3      | J |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/14/23 14:44 | 4/14/23 15:50       |          | 1     | 251          | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/6/23 10:55  | 4/7/23 12:30        |          | 1     | 462          | mg/L       |          | 50       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/14/23 14:44 | 4/14/23 15:50       |          | 1     | 251          | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 4/14/23 14:44 | 4/14/23 15:50       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/5/23 14:54  | 4/5/23 14:54        |          | 1     | 25.2         | mg/L       | 1.00     | 2        |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-24H

**Location Code:** WMWBARAP

**Collected:** 4/3/23 11:48

**Customer ID:**

**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06606

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Chloride                                   | 4/12/23 11:08 | 4/12/23 11:08       |          | 5  | 45.5    | mg/L  | 2.50 | 2.5   |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Fluoride                                   | 4/13/23 10:24 | 4/13/23 10:24       |          | 1  | 0.175   | mg/L  | 0.06 | 0.125 |    |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |         |       |      |       |    |
| * Sulfate                                    | 4/6/23 10:31  | 4/6/23 10:31        |          | 4  | 94.0    | mg/L  | 2.4  | 8     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: AWG</b> |          |    |         |       |      |       |    |
| Conductivity                                 | 4/3/23 11:45  | 4/3/23 11:45        |          |    | 804.05  | uS/cm |      |       | FA |
| pH   | 4/3/23 11:45  | 4/3/23 11:45        |          |    | 6.08    | SU    |      |       | FA |
| Temperature                                  | 4/3/23 11:45  | 4/3/23 11:45        |          |    | 21.89   | C     |      |       | FA |
| Turbidity                                    | 4/3/23 11:45  | 4/3/23 11:45        |          |    | 7.19    | NTU   |      |       | FA |
| Sulfide                                      | 4/3/23 11:45  | 4/3/23 11:45        |          |    | 0       | mg/L  |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/3/23 11:48  
**Customer ID:**  
**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-24H

**Laboratory ID Number:** BD06606

| Sample  | Analysis             | Units | MB         |          |       |        |        | Standard |                 | Rec  |             | Prec  | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
|         |                      |       | MB         | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec  | Limit       |       |       |
| BD06614 | Aluminum, Dissolved  | mg/L  | -0.000829  | 0.0198   | 0.100 | 0.101  | 0.103  | 0.103    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 1.96  | 20.0  |
| BD06613 | Aluminum, Total      | mg/L  | 0.000464   | 0.0198   | 0.100 | 0.104  | 0.106  | 0.103    | 0.0850 to 0.115 | 104  | 70.0 to 130 | 1.90  | 20.0  |
| BD06614 | Antimony, Dissolved  | mg/L  | 0.000282   | 0.00100  | 0.100 | 0.105  | 0.107  | 0.105    | 0.0850 to 0.115 | 105  | 70.0 to 130 | 1.89  | 20.0  |
| BD06613 | Antimony, Total      | mg/L  | 0.000260   | 0.00100  | 0.100 | 0.0945 | 0.0970 | 0.0922   | 0.0850 to 0.115 | 94.5 | 70.0 to 130 | 2.61  | 20.0  |
| BD06614 | Arsenic, Dissolved   | mg/L  | 0.000293   | 0.000200 | 0.100 | 0.110  | 0.112  | 0.108    | 0.0850 to 0.115 | 109  | 70.0 to 130 | 1.80  | 20.0  |
| BD06613 | Arsenic, Total       | mg/L  | 0.000185   | 0.000200 | 0.100 | 0.0996 | 0.0980 | 0.101    | 0.0850 to 0.115 | 99.2 | 70.0 to 130 | 1.62  | 20.0  |
| BD06614 | Barium, Dissolved    | mg/L  | 0.0000004  | 0.00100  | 0.100 | 0.111  | 0.114  | 0.104    | 0.0850 to 0.115 | 103  | 70.0 to 130 | 2.67  | 20.0  |
| BD06613 | Barium, Total        | mg/L  | 0.0000235  | 0.00100  | 0.100 | 0.272  | 0.282  | 0.0935   | 0.0850 to 0.115 | 83.0 | 70.0 to 130 | 3.61  | 20.0  |
| BD06614 | Beryllium, Dissolved | mg/L  | 0.0000122  | 0.000880 | 0.100 | 0.0988 | 0.102  | 0.0962   | 0.0850 to 0.115 | 98.8 | 70.0 to 130 | 3.19  | 20.0  |
| BD06613 | Beryllium, Total     | mg/L  | 0.0000089  | 0.000880 | 0.100 | 0.0946 | 0.0943 | 0.0982   | 0.0850 to 0.115 | 94.6 | 70.0 to 130 | 0.318 | 20.0  |
| BD06614 | Boron, Dissolved     | mg/L  | 0.000167   | 0.0650   | 1.00  | 1.32   | 1.30   | 1.01     | 0.850 to 1.15   | 102  | 70.0 to 130 | 1.53  | 20.0  |
| BD06613 | Boron, Total         | mg/L  | -0.00119   | 0.0650   | 1.00  | 2.00   | 1.98   | 0.989    | 0.850 to 1.15   | 104  | 70.0 to 130 | 1.01  | 20.0  |
| BD06614 | Cadmium, Dissolved   | mg/L  | 0.0000050  | 0.000147 | 0.100 | 0.107  | 0.109  | 0.111    | 0.0850 to 0.115 | 107  | 70.0 to 130 | 1.85  | 20.0  |
| BD06613 | Cadmium, Total       | mg/L  | 0.0000000  | 0.000147 | 0.100 | 0.0986 | 0.0971 | 0.0971   | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 1.53  | 20.0  |
| BD06614 | Calcium, Dissolved   | mg/L  | -0.0141    | 0.152    | 5.00  | 5.35   | 5.12   | 4.92     | 4.25 to 5.75    | 96.0 | 70.0 to 130 | 4.39  | 20.0  |
| BD06613 | Calcium, Total       | mg/L  | 0.00187    | 0.152    | 5.00  | 63.1   | 64.0   | 4.92     | 4.25 to 5.75    | 78.0 | 70.0 to 130 | 1.42  | 20.0  |
| BD06612 | Chloride             | mg/L  | 0.0720     | 1.00     | 10.0  | 17.6   | 17.8   | 10.3     | 9.00 to 11.0    | 102  | 80.0 to 120 | 1.13  | 20.0  |
| BD06614 | Chromium, Dissolved  | mg/L  | -0.0000464 | 0.000440 | 0.100 | 0.106  | 0.110  | 0.111    | 0.0850 to 0.115 | 106  | 70.0 to 130 | 3.70  | 20.0  |
| BD06613 | Chromium, Total      | mg/L  | 0.0000577  | 0.000440 | 0.100 | 0.0980 | 0.0992 | 0.0984   | 0.0850 to 0.115 | 97.5 | 70.0 to 130 | 1.22  | 20.0  |
| BD06614 | Cobalt, Dissolved    | mg/L  | -0.0000057 | 0.000147 | 0.100 | 0.108  | 0.111  | 0.110    | 0.0850 to 0.115 | 108  | 70.0 to 130 | 2.74  | 20.0  |
| BD06613 | Cobalt, Total        | mg/L  | -0.0000008 | 0.000147 | 0.100 | 0.102  | 0.103  | 0.101    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 0.976 | 20.0  |
| BD06613 | Fluoride             | mg/L  | 0.0117     | 0.125    | 2.50  | 2.69   | 2.66   | 2.57     | 2.25 to 2.75    | 108  | 80.0 to 120 | 1.12  | 20.0  |
| BD06614 | Iron, Dissolved      | mg/L  | -0.000107  | 0.0176   | 0.2   | 0.757  | 0.755  | 0.202    | 0.170 to 0.230  | 97.5 | 70.0 to 130 | 0.265 | 20.0  |
| BD06613 | Iron, Total          | mg/L  | -0.000067  | 0.0176   | 0.2   | 100    | 100    | 0.194    | 0.170 to 0.230  | -500 | 70.0 to 130 | 0.00  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/3/23 11:48  
**Customer ID:**  
**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-24H

**Laboratory ID Number:** BD06606

| Sample  | Analysis               | Units | MB        |          | Spike | MS      | MSD     | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB        | Limit    |       |         |         | Standard | Limit              | Rec  | Limit       |       |       |
| BD06614 | Lead, Dissolved        | mg/L  | 0.0000188 | 0.000147 | 0.100 | 0.0994  | 0.0993  | 0.101    | 0.0850 to 0.115    | 99.4 | 70.0 to 130 | 0.101 | 20.0  |
| BD06613 | Lead, Total            | mg/L  | 0.0000100 | 0.000147 | 0.100 | 0.0971  | 0.0966  | 0.0990   | 0.0850 to 0.115    | 97.1 | 70.0 to 130 | 0.516 | 20.0  |
| BD06614 | Lithium, Dissolved     | mg/L  | 0.000058  | 0.0154   | 0.200 | 0.207   | 0.204   | 0.197    | 0.170 to 0.230     | 104  | 70.0 to 130 | 1.46  | 20.0  |
| BD06613 | Lithium, Total         | mg/L  | 0.000883  | 0.0154   | 0.200 | 0.202   | 0.201   | 0.191    | 0.170 to 0.230     | 101  | 70.0 to 130 | 0.496 | 20.0  |
| BD06614 | Magnesium, Dissolved   | mg/L  | -0.00906  | 0.0462   | 5.00  | 5.15    | 4.89    | 4.92     | 4.25 to 5.75       | 98.5 | 70.0 to 130 | 5.18  | 20.0  |
| BD06613 | Magnesium, Total       | mg/L  | -0.00266  | 0.0462   | 5.00  | 16.8    | 16.7    | 4.86     | 4.25 to 5.75       | 96.0 | 70.0 to 130 | 0.597 | 20.0  |
| BD06614 | Manganese, Dissolved   | mg/L  | 0.0000223 | 0.00033  | 0.100 | 0.115   | 0.120   | 0.102    | 0.0850 to 0.115    | 98.9 | 70.0 to 130 | 4.26  | 20.0  |
| BD06613 | Manganese, Total       | mg/L  | 0.0000173 | 0.00033  | 0.100 | 0.894   | 0.904   | 0.101    | 0.0850 to 0.115    | 81.0 | 70.0 to 130 | 1.11  | 20.0  |
| BD06613 | Mercury, Total by CVAA | mg/L  | 3.000E-05 | 0.000500 | 0.004 | 0.00402 | 0.00407 | 0.00409  | 0.00340 to 0.00460 | 100  | 70.0 to 130 | 1.24  | 20.0  |
| BD06614 | Molybdenum, Dissolved  | mg/L  | 0.000012  | 0.0100   | 0.2   | 0.206   | 0.206   | 0.203    | 0.170 to 0.230     | 103  | 70.0 to 130 | 0.00  | 20.0  |
| BD06613 | Molybdenum, Total      | mg/L  | 0.000     | 0.0100   | 0.2   | 0.200   | 0.199   | 0.199    | 0.170 to 0.230     | 100  | 70.0 to 130 | 0.501 | 20.0  |
| BD06614 | Potassium, Dissolved   | mg/L  | 0.0134    | 0.367    | 10.0  | 11.0    | 11.2    | 10.4     | 8.50 to 11.5       | 99.1 | 70.0 to 130 | 1.80  | 20.0  |
| BD06613 | Potassium, Total       | mg/L  | 0.0131    | 0.367    | 10.0  | 12.3    | 12.3    | 10.0     | 8.50 to 11.5       | 99.9 | 70.0 to 130 | 0.00  | 20.0  |
| BD06614 | Selenium, Dissolved    | mg/L  | 0.0000543 | 0.00100  | 0.100 | 0.109   | 0.112   | 0.109    | 0.0850 to 0.115    | 109  | 70.0 to 130 | 2.71  | 20.0  |
| BD06613 | Selenium, Total        | mg/L  | 0.000122  | 0.00100  | 0.100 | 0.103   | 0.0993  | 0.103    | 0.0850 to 0.115    | 103  | 70.0 to 130 | 3.66  | 20.0  |
| BD06614 | Silicon, Dissolved     | mg/L  | 0.000048  | 0.0440   | 1.00  | 6.94    | 6.92    | 1.01     | 0.850 to 1.15      | 102  | 70.0 to 130 | 0.289 | 20.0  |
| BD06613 | Silicon, Total         | mg/L  | 0.00174   | 0.0440   | 1.00  | 14.7    | 14.7    | 0.987    | 0.850 to 1.15      | 90.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD06614 | Sodium, Dissolved      | mg/L  | -0.00120  | 0.0880   | 5.00  | 123     | 122     | 4.73     | 4.25 to 5.75       | -120 | 70.0 to 130 | 0.816 | 20.0  |
| BD06613 | Sodium, Total          | mg/L  | 0.00274   | 0.0880   | 5.00  | 31.5    | 31.4    | 4.66     | 4.25 to 5.75       | 94.0 | 70.0 to 130 | 0.318 | 20.0  |
| BD06613 | Sulfate                | mg/L  | 0.439     | 2.0      | 20.0  | 29.1    | 28.9    | 20.2     | 18.0 to 22.0       | 80.5 | 80.0 to 120 | 0.690 | 20.0  |
| BD06614 | Thallium, Dissolved    | mg/L  | 0.0000007 | 0.000147 | 0.100 | 0.103   | 0.0996  | 0.102    | 0.0850 to 0.115    | 103  | 70.0 to 130 | 3.36  | 20.0  |
| BD06613 | Thallium, Total        | mg/L  | 0.0000062 | 0.000147 | 0.100 | 0.100   | 0.0988  | 0.102    | 0.0850 to 0.115    | 100  | 70.0 to 130 | 1.21  | 20.0  |
| BD06613 | Total Organic Carbon   | mg/L  | 0.142     | 1.00     | 10.0  | 21.8    | 20.3    | 24.2     |                    | 106  | 80.0 to 120 | 7.13  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/3/23 11:48

**Customer ID:**

**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-24H

**Laboratory ID Number:** BD06606

| Sample  | Analysis                  | Units      | MB     | MB<br>Limit | Spike | MS   | Sample<br>Duplicate | Standard | Standard<br>Limit | Rec  | Rec<br>Limit | Prec  | Prec<br>Limit |
|---------|---------------------------|------------|--------|-------------|-------|------|---------------------|----------|-------------------|------|--------------|-------|---------------|
| BD06618 | Alkalinity to pH 4.5      | mg CaCO3/L |        |             |       |      | 25.3                | 50.5     | 45.0 to 55.0      |      |              | 0.794 | 10.0          |
| BD06613 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.02   | 0.200       | 2.00  | 1.74 | 0.240               | 2.00     | 1.80 to 2.20      | 75.0 | 90.0 to 110  | 0.418 | 15.0          |
| BD06611 | Solids, Dissolved         | mg/L       | 0.0000 | 25.0        |       |      | 393                 | 50.0     | 40.0 to 60.0      |      |              | 1.77  | 10.0          |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-24H DUP

**Location Code:** WMWBARAP  
**Collected:** 4/3/23 11:48  
**Customer ID:**  
**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06607

| Name                                | Prepared     | Analyzed            | Vio Spec | DF    | Results                             | Units | MDL      | RL         | Q |  |
|-------------------------------------|--------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| <b>Analytical Method: EPA 200.7</b> |              | <b>Analyst: ABB</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |  |
| * Boron, Total                      | 4/6/23 06:51 | 4/6/23 11:53        |          | 1.015 | 0.378                               | mg/L  | 0.030000 | 0.1015     |   |  |
| * Calcium, Total                    | 4/6/23 06:51 | 4/6/23 11:53        |          | 1.015 | 18.1                                | mg/L  | 0.070035 | 0.406      |   |  |
| * Iron, Total                       | 4/6/23 06:51 | 4/6/23 13:19        |          | 101.5 | 111                                 | mg/L  | 0.8120   | 4.06       |   |  |
| * Lithium, Total                    | 4/6/23 06:51 | 4/6/23 11:53        |          | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |  |
| * Magnesium, Total                  | 4/6/23 06:51 | 4/6/23 11:53        |          | 1.015 | 16.4                                | mg/L  | 0.021315 | 0.406      |   |  |
| * Molybdenum, Total                 | 4/6/23 06:51 | 4/6/23 11:53        |          | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |  |
| * Silica, Total (calc.)             | 4/6/23 06:51 | 4/6/23 11:53        |          | 1     | 23.3                                | mg/L  |          |            |   |  |
| * Silicon, Total                    | 4/6/23 06:51 | 4/6/23 11:53        |          | 1.015 | 10.9                                | mg/L  | 0.02030  | 0.25375    |   |  |
| * Sodium, Total                     | 4/6/23 06:51 | 4/6/23 13:19        |          | 101.5 | 65.0                                | mg/L  | 4.060    | 40.6       |   |  |
| <b>Analytical Method: EPA 200.7</b> |              | <b>Analyst: ABB</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |  |
| * Boron, Dissolved                  | 4/6/23 09:44 | 4/7/23 11:27        |          | 1.015 | 0.386                               | mg/L  | 0.030000 | 0.1015     |   |  |
| * Calcium, Dissolved                | 4/6/23 09:44 | 4/7/23 11:27        |          | 1.015 | 17.4                                | mg/L  | 0.070035 | 0.406      |   |  |
| * Iron, Dissolved                   | 4/6/23 09:44 | 4/7/23 12:46        |          | 101.5 | 114                                 | mg/L  | 0.8120   | 4.06       |   |  |
| * Lithium, Dissolved                | 4/6/23 09:44 | 4/7/23 11:27        |          | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |  |
| * Magnesium, Dissolved              | 4/6/23 09:44 | 4/7/23 11:27        |          | 1.015 | 16.3                                | mg/L  | 0.021315 | 0.406      |   |  |
| * Molybdenum, Dissolved             | 4/6/23 09:44 | 4/7/23 11:27        |          | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |  |
| * Silica, Dissolved (calc.)         | 4/6/23 09:44 | 4/7/23 11:27        |          | 1     | 23.5                                | mg/L  |          |            |   |  |
| * Silicon, Dissolved                | 4/6/23 09:44 | 4/7/23 11:27        |          | 1.015 | 11.0                                | mg/L  | 0.02030  | 0.25375    |   |  |
| * Sodium, Dissolved                 | 4/6/23 09:44 | 4/7/23 12:46        |          | 101.5 | 65.5                                | mg/L  | 4.060    | 40.6       |   |  |
| <b>Analytical Method: EPA 200.8</b> |              | <b>Analyst: DLJ</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |  |
| * Antimony, Total                   | 4/6/23 06:51 | 4/7/23 11:42        |          | 1.015 | Not Detected                        | mg/L  | 0.000710 | 0.001015   | U |  |
| * Aluminum, Total                   | 4/6/23 06:51 | 4/7/23 11:42        |          | 1.015 | 0.00915                             | mg/L  | 0.009135 | 0.05075    | J |  |
| * Arsenic, Total                    | 4/6/23 06:51 | 4/7/23 11:42        |          | 1.015 | 0.0696                              | mg/L  | 0.000112 | 0.000203   |   |  |
| * Barium, Total                     | 4/6/23 06:51 | 4/7/23 11:42        |          | 1.015 | 0.230                               | mg/L  | 0.000508 | 0.001015   |   |  |
| * Beryllium, Total                  | 4/6/23 06:51 | 4/7/23 11:42        |          | 1.015 | Not Detected                        | mg/L  | 0.000406 | 0.001015   | U |  |
| * Cadmium, Total                    | 4/6/23 06:51 | 4/7/23 11:42        |          | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |  |
| * Chromium, Total                   | 4/6/23 06:51 | 4/7/23 11:42        |          | 1.015 | 0.000868                            | mg/L  | 0.000203 | 0.001015   | J |  |
| * Cobalt, Total                     | 4/6/23 06:51 | 4/7/23 11:42        |          | 1.015 | 0.00560                             | mg/L  | 0.000068 | 0.000203   |   |  |
| * Lead, Total                       | 4/6/23 06:51 | 4/7/23 11:42        |          | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |  |
| * Manganese, Total                  | 4/6/23 06:51 | 4/7/23 11:42        |          | 1.015 | 0.207                               | mg/L  | 0.000152 | 0.001015   |   |  |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-24H DUP

**Location Code:** WMWBARAP  
**Collected:** 4/3/23 11:48  
**Customer ID:**  
**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06607

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/6/23 06:51  | 4/7/23 11:42        |          | 1.015 | 2.59         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/6/23 06:51  | 4/7/23 11:42        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/6/23 06:51  | 4/7/23 11:42        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:19        |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:19        |          | 1.015 | Not Detected | mg/L       | 0.009135 | 0.05075  | U |
| * Arsenic, Dissolved                   | 4/6/23 09:44  | 4/6/23 11:19        |          | 1.015 | 0.0766       | mg/L       | 0.000112 | 0.000203 |   |
| * Barium, Dissolved                    | 4/6/23 09:44  | 4/6/23 11:19        |          | 1.015 | 0.228        | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/6/23 09:44  | 4/6/23 11:19        |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/6/23 09:44  | 4/6/23 11:19        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:19        |          | 1.015 | 0.000773     | mg/L       | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved                    | 4/6/23 09:44  | 4/6/23 11:19        |          | 1.015 | 0.00573      | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/6/23 09:44  | 4/6/23 11:19        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/6/23 09:44  | 4/6/23 11:19        |          | 1.015 | 0.202        | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/6/23 09:44  | 4/6/23 11:19        |          | 1.015 | 2.52         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:19        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:19        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/11/23 18:35 | 4/11/23 22:45       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/6/23 08:58  | 4/6/23 08:58        |          | 1     | 0.310        | mg/L as N  | 0.20     | 0.3      |   |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/14/23 14:44 | 4/14/23 15:50       |          | 1     | 250          | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/6/23 10:55  | 4/7/23 12:30        |          | 1     | 450          | mg/L       |          | 50       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/14/23 14:44 | 4/14/23 15:50       |          | 1     | 250          | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 4/14/23 14:44 | 4/14/23 15:50       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/5/23 15:10  | 4/5/23 15:10        |          | 1     | 25.6         | mg/L       | 1.00     | 2        |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-24H DUP

**Location Code:** WMWBARAP

**Collected:** 4/3/23 11:48

**Customer ID:**

**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06607

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Chloride                                   | 4/12/23 11:10 | 4/12/23 11:10       |          | 5  | 46.3    | mg/L  | 2.50 | 2.5   |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Fluoride                                   | 4/13/23 10:25 | 4/13/23 10:25       |          | 1  | 0.182   | mg/L  | 0.06 | 0.125 |    |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |         |       |      |       |    |
| * Sulfate                                    | 4/6/23 10:16  | 4/6/23 10:16        |          | 3  | 112     | mg/L  | 1.8  | 6     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: AWG</b> |          |    |         |       |      |       |    |
| Conductivity                                 | 4/3/23 11:45  | 4/3/23 11:45        |          |    | 804.05  | uS/cm |      |       | FA |
| pH   | 4/3/23 11:45  | 4/3/23 11:45        |          |    | 6.08    | SU    |      |       | FA |
| Temperature                                  | 4/3/23 11:45  | 4/3/23 11:45        |          |    | 21.89   | C     |      |       | FA |
| Turbidity                                    | 4/3/23 11:45  | 4/3/23 11:45        |          |    | 7.19    | NTU   |      |       | FA |
| Sulfide                                      | 4/3/23 11:45  | 4/3/23 11:45        |          |    | 0       | mg/L  |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/3/23 11:48  
**Customer ID:**  
**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-24H DUP

**Laboratory ID Number:** BD06607

| Sample  | Analysis             | Units | MB         | MB       |       |        |        | Standard |                 | Rec  |             | Prec  | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
|         |                      |       |            | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec  | Limit       |       |       |
| BD06614 | Aluminum, Dissolved  | mg/L  | -0.000829  | 0.0198   | 0.100 | 0.101  | 0.103  | 0.103    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 1.96  | 20.0  |
| BD06613 | Aluminum, Total      | mg/L  | 0.000464   | 0.0198   | 0.100 | 0.104  | 0.106  | 0.103    | 0.0850 to 0.115 | 104  | 70.0 to 130 | 1.90  | 20.0  |
| BD06614 | Antimony, Dissolved  | mg/L  | 0.000282   | 0.00100  | 0.100 | 0.105  | 0.107  | 0.105    | 0.0850 to 0.115 | 105  | 70.0 to 130 | 1.89  | 20.0  |
| BD06613 | Antimony, Total      | mg/L  | 0.000260   | 0.00100  | 0.100 | 0.0945 | 0.0970 | 0.0922   | 0.0850 to 0.115 | 94.5 | 70.0 to 130 | 2.61  | 20.0  |
| BD06614 | Arsenic, Dissolved   | mg/L  | 0.000293   | 0.000200 | 0.100 | 0.110  | 0.112  | 0.108    | 0.0850 to 0.115 | 109  | 70.0 to 130 | 1.80  | 20.0  |
| BD06613 | Arsenic, Total       | mg/L  | 0.000185   | 0.000200 | 0.100 | 0.0996 | 0.0980 | 0.101    | 0.0850 to 0.115 | 99.2 | 70.0 to 130 | 1.62  | 20.0  |
| BD06614 | Barium, Dissolved    | mg/L  | 0.000004   | 0.00100  | 0.100 | 0.111  | 0.114  | 0.104    | 0.0850 to 0.115 | 103  | 70.0 to 130 | 2.67  | 20.0  |
| BD06613 | Barium, Total        | mg/L  | 0.0000235  | 0.00100  | 0.100 | 0.272  | 0.282  | 0.0935   | 0.0850 to 0.115 | 83.0 | 70.0 to 130 | 3.61  | 20.0  |
| BD06614 | Beryllium, Dissolved | mg/L  | 0.0000122  | 0.000880 | 0.100 | 0.0988 | 0.102  | 0.0962   | 0.0850 to 0.115 | 98.8 | 70.0 to 130 | 3.19  | 20.0  |
| BD06613 | Beryllium, Total     | mg/L  | 0.0000089  | 0.000880 | 0.100 | 0.0946 | 0.0943 | 0.0982   | 0.0850 to 0.115 | 94.6 | 70.0 to 130 | 0.318 | 20.0  |
| BD06614 | Boron, Dissolved     | mg/L  | 0.000167   | 0.0650   | 1.00  | 1.32   | 1.30   | 1.01     | 0.850 to 1.15   | 102  | 70.0 to 130 | 1.53  | 20.0  |
| BD06613 | Boron, Total         | mg/L  | -0.00119   | 0.0650   | 1.00  | 2.00   | 1.98   | 0.989    | 0.850 to 1.15   | 104  | 70.0 to 130 | 1.01  | 20.0  |
| BD06614 | Cadmium, Dissolved   | mg/L  | 0.0000050  | 0.000147 | 0.100 | 0.107  | 0.109  | 0.111    | 0.0850 to 0.115 | 107  | 70.0 to 130 | 1.85  | 20.0  |
| BD06613 | Cadmium, Total       | mg/L  | 0.0000000  | 0.000147 | 0.100 | 0.0986 | 0.0971 | 0.0971   | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 1.53  | 20.0  |
| BD06614 | Calcium, Dissolved   | mg/L  | -0.0141    | 0.152    | 5.00  | 5.35   | 5.12   | 4.92     | 4.25 to 5.75    | 96.0 | 70.0 to 130 | 4.39  | 20.0  |
| BD06613 | Calcium, Total       | mg/L  | 0.00187    | 0.152    | 5.00  | 63.1   | 64.0   | 4.92     | 4.25 to 5.75    | 78.0 | 70.0 to 130 | 1.42  | 20.0  |
| BD06612 | Chloride             | mg/L  | 0.0720     | 1.00     | 10.0  | 17.6   | 17.8   | 10.3     | 9.00 to 11.0    | 102  | 80.0 to 120 | 1.13  | 20.0  |
| BD06614 | Chromium, Dissolved  | mg/L  | -0.0000464 | 0.000440 | 0.100 | 0.106  | 0.110  | 0.111    | 0.0850 to 0.115 | 106  | 70.0 to 130 | 3.70  | 20.0  |
| BD06613 | Chromium, Total      | mg/L  | 0.0000577  | 0.000440 | 0.100 | 0.0980 | 0.0992 | 0.0984   | 0.0850 to 0.115 | 97.5 | 70.0 to 130 | 1.22  | 20.0  |
| BD06614 | Cobalt, Dissolved    | mg/L  | -0.0000057 | 0.000147 | 0.100 | 0.108  | 0.111  | 0.110    | 0.0850 to 0.115 | 108  | 70.0 to 130 | 2.74  | 20.0  |
| BD06613 | Cobalt, Total        | mg/L  | -0.0000008 | 0.000147 | 0.100 | 0.102  | 0.103  | 0.101    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 0.976 | 20.0  |
| BD06613 | Fluoride             | mg/L  | 0.0117     | 0.125    | 2.50  | 2.69   | 2.66   | 2.57     | 2.25 to 2.75    | 108  | 80.0 to 120 | 1.12  | 20.0  |
| BD06614 | Iron, Dissolved      | mg/L  | -0.000107  | 0.0176   | 0.2   | 0.757  | 0.755  | 0.202    | 0.170 to 0.230  | 97.5 | 70.0 to 130 | 0.265 | 20.0  |
| BD06613 | Iron, Total          | mg/L  | -0.000067  | 0.0176   | 0.2   | 100    | 100    | 0.194    | 0.170 to 0.230  | -500 | 70.0 to 130 | 0.00  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/3/23 11:48

**Customer ID:**

**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-24H DUP

**Laboratory ID Number:** BD06607

| Sample  | Analysis               | Units | MB        |          | Spike | MS      | MSD     | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB        | Limit    |       |         |         | Standard | Limit              | Rec  | Limit       |       |       |
| BD06614 | Lead, Dissolved        | mg/L  | 0.0000188 | 0.000147 | 0.100 | 0.0994  | 0.0993  | 0.101    | 0.0850 to 0.115    | 99.4 | 70.0 to 130 | 0.101 | 20.0  |
| BD06613 | Lead, Total            | mg/L  | 0.0000100 | 0.000147 | 0.100 | 0.0971  | 0.0966  | 0.0990   | 0.0850 to 0.115    | 97.1 | 70.0 to 130 | 0.516 | 20.0  |
| BD06614 | Lithium, Dissolved     | mg/L  | 0.000058  | 0.0154   | 0.200 | 0.207   | 0.204   | 0.197    | 0.170 to 0.230     | 104  | 70.0 to 130 | 1.46  | 20.0  |
| BD06613 | Lithium, Total         | mg/L  | 0.000883  | 0.0154   | 0.200 | 0.202   | 0.201   | 0.191    | 0.170 to 0.230     | 101  | 70.0 to 130 | 0.496 | 20.0  |
| BD06614 | Magnesium, Dissolved   | mg/L  | -0.00906  | 0.0462   | 5.00  | 5.15    | 4.89    | 4.92     | 4.25 to 5.75       | 98.5 | 70.0 to 130 | 5.18  | 20.0  |
| BD06613 | Magnesium, Total       | mg/L  | -0.00266  | 0.0462   | 5.00  | 16.8    | 16.7    | 4.86     | 4.25 to 5.75       | 96.0 | 70.0 to 130 | 0.597 | 20.0  |
| BD06614 | Manganese, Dissolved   | mg/L  | 0.0000223 | 0.00033  | 0.100 | 0.115   | 0.120   | 0.102    | 0.0850 to 0.115    | 98.9 | 70.0 to 130 | 4.26  | 20.0  |
| BD06613 | Manganese, Total       | mg/L  | 0.0000173 | 0.00033  | 0.100 | 0.894   | 0.904   | 0.101    | 0.0850 to 0.115    | 81.0 | 70.0 to 130 | 1.11  | 20.0  |
| BD06613 | Mercury, Total by CVAA | mg/L  | 3.000E-05 | 0.000500 | 0.004 | 0.00402 | 0.00407 | 0.00409  | 0.00340 to 0.00460 | 100  | 70.0 to 130 | 1.24  | 20.0  |
| BD06614 | Molybdenum, Dissolved  | mg/L  | 0.000012  | 0.0100   | 0.2   | 0.206   | 0.206   | 0.203    | 0.170 to 0.230     | 103  | 70.0 to 130 | 0.00  | 20.0  |
| BD06613 | Molybdenum, Total      | mg/L  | 0.000     | 0.0100   | 0.2   | 0.200   | 0.199   | 0.199    | 0.170 to 0.230     | 100  | 70.0 to 130 | 0.501 | 20.0  |
| BD06614 | Potassium, Dissolved   | mg/L  | 0.0134    | 0.367    | 10.0  | 11.0    | 11.2    | 10.4     | 8.50 to 11.5       | 99.1 | 70.0 to 130 | 1.80  | 20.0  |
| BD06613 | Potassium, Total       | mg/L  | 0.0131    | 0.367    | 10.0  | 12.3    | 12.3    | 10.0     | 8.50 to 11.5       | 99.9 | 70.0 to 130 | 0.00  | 20.0  |
| BD06614 | Selenium, Dissolved    | mg/L  | 0.0000543 | 0.00100  | 0.100 | 0.109   | 0.112   | 0.109    | 0.0850 to 0.115    | 109  | 70.0 to 130 | 2.71  | 20.0  |
| BD06613 | Selenium, Total        | mg/L  | 0.000122  | 0.00100  | 0.100 | 0.103   | 0.0993  | 0.103    | 0.0850 to 0.115    | 103  | 70.0 to 130 | 3.66  | 20.0  |
| BD06614 | Silicon, Dissolved     | mg/L  | 0.000048  | 0.0440   | 1.00  | 6.94    | 6.92    | 1.01     | 0.850 to 1.15      | 102  | 70.0 to 130 | 0.289 | 20.0  |
| BD06613 | Silicon, Total         | mg/L  | 0.00174   | 0.0440   | 1.00  | 14.7    | 14.7    | 0.987    | 0.850 to 1.15      | 90.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD06614 | Sodium, Dissolved      | mg/L  | -0.00120  | 0.0880   | 5.00  | 123     | 122     | 4.73     | 4.25 to 5.75       | -120 | 70.0 to 130 | 0.816 | 20.0  |
| BD06613 | Sodium, Total          | mg/L  | 0.00274   | 0.0880   | 5.00  | 31.5    | 31.4    | 4.66     | 4.25 to 5.75       | 94.0 | 70.0 to 130 | 0.318 | 20.0  |
| BD06613 | Sulfate                | mg/L  | 0.439     | 2.0      | 20.0  | 29.1    | 28.9    | 20.2     | 18.0 to 22.0       | 80.5 | 80.0 to 120 | 0.690 | 20.0  |
| BD06614 | Thallium, Dissolved    | mg/L  | 0.0000007 | 0.000147 | 0.100 | 0.103   | 0.0996  | 0.102    | 0.0850 to 0.115    | 103  | 70.0 to 130 | 3.36  | 20.0  |
| BD06613 | Thallium, Total        | mg/L  | 0.0000062 | 0.000147 | 0.100 | 0.100   | 0.0988  | 0.102    | 0.0850 to 0.115    | 100  | 70.0 to 130 | 1.21  | 20.0  |
| BD06613 | Total Organic Carbon   | mg/L  | 0.142     | 1.00     | 10.0  | 21.8    | 20.3    | 24.2     |                    | 106  | 80.0 to 120 | 7.13  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/3/23 11:48

**Customer ID:**

**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-24H DUP

**Laboratory ID Number:** BD06607

| Sample  | Analysis                  | Units      | MB     | MB Limit | Spike | MS   | Sample Duplicate | Standard | Standard Limit | Rec  | Rec Limit   | Prec  | Prec Limit |
|---------|---------------------------|------------|--------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BD06618 | Alkalinity to pH 4.5      | mg CaCO3/L |        |          |       |      | 25.3             | 50.5     | 45.0 to 55.0   |      |             | 0.794 | 10.0       |
| BD06613 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.02   | 0.200    | 2.00  | 1.74 | 0.240            | 2.00     | 1.80 to 2.20   | 75.0 | 90.0 to 110 | 0.418 | 15.0       |
| BD06611 | Solids, Dissolved         | mg/L       | 0.0000 | 25.0     |       |      | 393              | 50.0     | 40.0 to 60.0   |      |             | 1.77  | 10.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-25H

**Location Code:** WMWBARAP  
**Collected:** 4/3/23 14:24  
**Customer ID:**  
**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06608

| Name                                | Prepared     | Analyzed     | Vio Spec            | DF    | Results      | Units                               | MDL      | RL         | Q |
|-------------------------------------|--------------|--------------|---------------------|-------|--------------|-------------------------------------|----------|------------|---|
| <b>Analytical Method: EPA 200.7</b> |              |              | <b>Analyst: ABB</b> |       |              | <b>Preparation Method: EPA 1638</b> |          |            |   |
| * Boron, Total                      | 4/6/23 06:51 | 4/6/23 11:57 |                     | 1.015 | Not Detected | mg/L                                | 0.030000 | 0.1015     | U |
| * Calcium, Total                    | 4/6/23 06:51 | 4/6/23 11:57 |                     | 1.015 | 1.01         | mg/L                                | 0.070035 | 0.406      |   |
| * Iron, Total                       | 4/6/23 06:51 | 4/6/23 11:57 |                     | 1.015 | 0.0232       | mg/L                                | 0.008120 | 0.0406     | J |
| * Lithium, Total                    | 4/6/23 06:51 | 4/6/23 11:57 |                     | 1.015 | Not Detected | mg/L                                | 0.007105 | 0.01999956 | U |
| * Magnesium, Total                  | 4/6/23 06:51 | 4/6/23 11:57 |                     | 1.015 | 0.748        | mg/L                                | 0.021315 | 0.406      |   |
| * Molybdenum, Total                 | 4/6/23 06:51 | 4/6/23 11:57 |                     | 1.015 | Not Detected | mg/L                                | 0.005075 | 0.01015    | U |
| * Silica, Total (calc.)             | 4/6/23 06:51 | 4/6/23 11:57 |                     | 1     | 15.9         | mg/L                                |          |            |   |
| * Silicon, Total                    | 4/6/23 06:51 | 4/6/23 11:57 |                     | 1.015 | 7.45         | mg/L                                | 0.02030  | 0.25375    |   |
| * Sodium, Total                     | 4/6/23 06:51 | 4/6/23 11:57 |                     | 1.015 | 5.81         | mg/L                                | 0.04060  | 0.406      |   |
| <b>Analytical Method: EPA 200.7</b> |              |              | <b>Analyst: ABB</b> |       |              |                                     |          |            |   |
| * Boron, Dissolved                  | 4/6/23 09:44 | 4/7/23 11:30 |                     | 1.015 | Not Detected | mg/L                                | 0.030000 | 0.1015     | U |
| * Calcium, Dissolved                | 4/6/23 09:44 | 4/7/23 11:30 |                     | 1.015 | 0.977        | mg/L                                | 0.070035 | 0.406      |   |
| * Iron, Dissolved                   | 4/6/23 09:44 | 4/7/23 11:30 |                     | 1.015 | Not Detected | mg/L                                | 0.008120 | 0.0406     | U |
| * Lithium, Dissolved                | 4/6/23 09:44 | 4/7/23 11:30 |                     | 1.015 | Not Detected | mg/L                                | 0.007105 | 0.01999956 | U |
| * Magnesium, Dissolved              | 4/6/23 09:44 | 4/7/23 11:30 |                     | 1.015 | 0.743        | mg/L                                | 0.021315 | 0.406      |   |
| * Molybdenum, Dissolved             | 4/6/23 09:44 | 4/7/23 11:30 |                     | 1.015 | Not Detected | mg/L                                | 0.005075 | 0.01015    | U |
| * Silica, Dissolved (calc.)         | 4/6/23 09:44 | 4/7/23 11:30 |                     | 1     | 16.2         | mg/L                                |          |            |   |
| * Silicon, Dissolved                | 4/6/23 09:44 | 4/7/23 11:30 |                     | 1.015 | 7.55         | mg/L                                | 0.02030  | 0.25375    |   |
| * Sodium, Dissolved                 | 4/6/23 09:44 | 4/7/23 11:30 |                     | 1.015 | 5.86         | mg/L                                | 0.04060  | 0.406      |   |
| <b>Analytical Method: EPA 200.8</b> |              |              | <b>Analyst: DLJ</b> |       |              | <b>Preparation Method: EPA 1638</b> |          |            |   |
| * Antimony, Total                   | 4/6/23 06:51 | 4/7/23 11:46 |                     | 1.015 | Not Detected | mg/L                                | 0.000710 | 0.001015   | U |
| * Aluminum, Total                   | 4/6/23 06:51 | 4/7/23 11:46 |                     | 1.015 | 0.0114       | mg/L                                | 0.009135 | 0.05075    | J |
| * Arsenic, Total                    | 4/6/23 06:51 | 4/7/23 11:46 |                     | 1.015 | 0.000135     | mg/L                                | 0.000112 | 0.000203   | J |
| * Barium, Total                     | 4/6/23 06:51 | 4/7/23 11:46 |                     | 1.015 | 0.0187       | mg/L                                | 0.000508 | 0.001015   |   |
| * Beryllium, Total                  | 4/6/23 06:51 | 4/7/23 11:46 |                     | 1.015 | Not Detected | mg/L                                | 0.000406 | 0.001015   | U |
| * Cadmium, Total                    | 4/6/23 06:51 | 4/7/23 11:46 |                     | 1.015 | Not Detected | mg/L                                | 0.000068 | 0.000203   | U |
| * Chromium, Total                   | 4/6/23 06:51 | 4/7/23 11:46 |                     | 1.015 | 0.00106      | mg/L                                | 0.000203 | 0.001015   |   |
| * Cobalt, Total                     | 4/6/23 06:51 | 4/7/23 11:46 |                     | 1.015 | 0.00113      | mg/L                                | 0.000068 | 0.000203   |   |
| * Lead, Total                       | 4/6/23 06:51 | 4/7/23 11:46 |                     | 1.015 | Not Detected | mg/L                                | 0.000068 | 0.000203   | U |
| * Manganese, Total                  | 4/6/23 06:51 | 4/7/23 11:46 |                     | 1.015 | 0.00292      | mg/L                                | 0.000152 | 0.001015   |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-25H

**Location Code:** WMWBARAP

**Collected:** 4/3/23 14:24

**Customer ID:**

**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06608

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/6/23 06:51  | 4/7/23 11:46        |          | 1.015 | 0.897        | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/6/23 06:51  | 4/7/23 11:46        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/6/23 06:51  | 4/7/23 11:46        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:22        |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:22        |          | 1.015 | Not Detected | mg/L       | 0.009135 | 0.05075  | U |
| * Arsenic, Dissolved                   | 4/6/23 09:44  | 4/6/23 11:22        |          | 1.015 | Not Detected | mg/L       | 0.000112 | 0.000203 | U |
| * Barium, Dissolved                    | 4/6/23 09:44  | 4/6/23 11:22        |          | 1.015 | 0.0211       | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/6/23 09:44  | 4/6/23 11:22        |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/6/23 09:44  | 4/6/23 11:22        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:22        |          | 1.015 | 0.00122      | mg/L       | 0.000203 | 0.001015 |   |
| * Cobalt, Dissolved                    | 4/6/23 09:44  | 4/6/23 11:22        |          | 1.015 | 0.00136      | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/6/23 09:44  | 4/6/23 11:22        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/6/23 09:44  | 4/6/23 11:22        |          | 1.015 | 0.00306      | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/6/23 09:44  | 4/6/23 11:22        |          | 1.015 | 0.942        | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:22        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:22        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/11/23 18:35 | 4/11/23 22:49       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/6/23 09:00  | 4/6/23 09:00        |          | 1     | Not Detected | mg/L as N  | 0.20     | 0.3      | U |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/17/23 10:54 | 4/17/23 12:30       |          | 1     | 5.52         | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/6/23 10:55  | 4/7/23 12:30        |          | 1     | 40.0         | mg/L       |          | 25       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/17/23 10:54 | 4/17/23 12:30       |          | 1     | 5.52         | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 4/17/23 10:54 | 4/17/23 12:30       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/5/23 15:26  | 4/5/23 15:26        |          | 1     | Not Detected | mg/L       | 1.00     | 2        | U |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-25H

**Location Code:** WMWBARAP

**Collected:** 4/3/23 14:24

**Customer ID:**

**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06608

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results      | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|--------------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: CES</b> |          |    |              |       |      |       |    |
| * Chloride                                   | 4/12/23 10:58 | 4/12/23 10:58       |          | 1  | 5.52         | mg/L  | 0.50 | 0.5   |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: CES</b> |          |    |              |       |      |       |    |
| * Fluoride                                   | 4/13/23 10:27 | 4/13/23 10:27       |          | 1  | Not Detected | mg/L  | 0.06 | 0.125 | U  |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |              |       |      |       |    |
| * Sulfate                                    | 4/6/23 10:05  | 4/6/23 10:05        |          | 1  | 4.48         | mg/L  | 0.6  | 2     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: AWG</b> |          |    |              |       |      |       |    |
| Conductivity                                 | 4/3/23 14:21  | 4/3/23 14:21        |          |    | 45.80        | uS/cm |      |       | FA |
| pH   | 4/3/23 14:21  | 4/3/23 14:21        |          |    | 4.65         | SU    |      |       | FA |
| Temperature                                  | 4/3/23 14:21  | 4/3/23 14:21        |          |    | 23.02        | C     |      |       | FA |
| Turbidity                                    | 4/3/23 14:21  | 4/3/23 14:21        |          |    | 3.98         | NTU   |      |       | FA |
| Sulfide                                      | 4/3/23 14:21  | 4/3/23 14:21        |          |    | 0            | mg/L  |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/3/23 14:24  
**Customer ID:**  
**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-25H

**Laboratory ID Number:** BD06608

| Sample  | Analysis             | Units | MB         |          |       |        |        | Standard |                 | Rec  |             | Prec  | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
|         |                      |       | MB         | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec  | Limit       |       |       |
| BD06614 | Aluminum, Dissolved  | mg/L  | -0.000829  | 0.0198   | 0.100 | 0.101  | 0.103  | 0.103    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 1.96  | 20.0  |
| BD06613 | Aluminum, Total      | mg/L  | 0.000464   | 0.0198   | 0.100 | 0.104  | 0.106  | 0.103    | 0.0850 to 0.115 | 104  | 70.0 to 130 | 1.90  | 20.0  |
| BD06614 | Antimony, Dissolved  | mg/L  | 0.000282   | 0.00100  | 0.100 | 0.105  | 0.107  | 0.105    | 0.0850 to 0.115 | 105  | 70.0 to 130 | 1.89  | 20.0  |
| BD06613 | Antimony, Total      | mg/L  | 0.000260   | 0.00100  | 0.100 | 0.0945 | 0.0970 | 0.0922   | 0.0850 to 0.115 | 94.5 | 70.0 to 130 | 2.61  | 20.0  |
| BD06614 | Arsenic, Dissolved   | mg/L  | 0.0000293  | 0.000200 | 0.100 | 0.110  | 0.112  | 0.108    | 0.0850 to 0.115 | 109  | 70.0 to 130 | 1.80  | 20.0  |
| BD06613 | Arsenic, Total       | mg/L  | 0.0000185  | 0.000200 | 0.100 | 0.0996 | 0.0980 | 0.101    | 0.0850 to 0.115 | 99.2 | 70.0 to 130 | 1.62  | 20.0  |
| BD06614 | Barium, Dissolved    | mg/L  | 0.0000004  | 0.00100  | 0.100 | 0.111  | 0.114  | 0.104    | 0.0850 to 0.115 | 103  | 70.0 to 130 | 2.67  | 20.0  |
| BD06613 | Barium, Total        | mg/L  | 0.0000235  | 0.00100  | 0.100 | 0.272  | 0.282  | 0.0935   | 0.0850 to 0.115 | 83.0 | 70.0 to 130 | 3.61  | 20.0  |
| BD06614 | Beryllium, Dissolved | mg/L  | 0.0000122  | 0.000880 | 0.100 | 0.0988 | 0.102  | 0.0962   | 0.0850 to 0.115 | 98.8 | 70.0 to 130 | 3.19  | 20.0  |
| BD06613 | Beryllium, Total     | mg/L  | 0.0000089  | 0.000880 | 0.100 | 0.0946 | 0.0943 | 0.0982   | 0.0850 to 0.115 | 94.6 | 70.0 to 130 | 0.318 | 20.0  |
| BD06614 | Boron, Dissolved     | mg/L  | 0.000167   | 0.0650   | 1.00  | 1.32   | 1.30   | 1.01     | 0.850 to 1.15   | 102  | 70.0 to 130 | 1.53  | 20.0  |
| BD06613 | Boron, Total         | mg/L  | -0.00119   | 0.0650   | 1.00  | 2.00   | 1.98   | 0.989    | 0.850 to 1.15   | 104  | 70.0 to 130 | 1.01  | 20.0  |
| BD06614 | Cadmium, Dissolved   | mg/L  | 0.0000050  | 0.000147 | 0.100 | 0.107  | 0.109  | 0.111    | 0.0850 to 0.115 | 107  | 70.0 to 130 | 1.85  | 20.0  |
| BD06613 | Cadmium, Total       | mg/L  | 0.0000000  | 0.000147 | 0.100 | 0.0986 | 0.0971 | 0.0971   | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 1.53  | 20.0  |
| BD06614 | Calcium, Dissolved   | mg/L  | -0.0141    | 0.152    | 5.00  | 5.35   | 5.12   | 4.92     | 4.25 to 5.75    | 96.0 | 70.0 to 130 | 4.39  | 20.0  |
| BD06613 | Calcium, Total       | mg/L  | 0.00187    | 0.152    | 5.00  | 63.1   | 64.0   | 4.92     | 4.25 to 5.75    | 78.0 | 70.0 to 130 | 1.42  | 20.0  |
| BD06612 | Chloride             | mg/L  | 0.0720     | 1.00     | 10.0  | 17.6   | 17.8   | 10.3     | 9.00 to 11.0    | 102  | 80.0 to 120 | 1.13  | 20.0  |
| BD06614 | Chromium, Dissolved  | mg/L  | -0.0000464 | 0.000440 | 0.100 | 0.106  | 0.110  | 0.111    | 0.0850 to 0.115 | 106  | 70.0 to 130 | 3.70  | 20.0  |
| BD06613 | Chromium, Total      | mg/L  | 0.0000577  | 0.000440 | 0.100 | 0.0980 | 0.0992 | 0.0984   | 0.0850 to 0.115 | 97.5 | 70.0 to 130 | 1.22  | 20.0  |
| BD06614 | Cobalt, Dissolved    | mg/L  | -0.0000057 | 0.000147 | 0.100 | 0.108  | 0.111  | 0.110    | 0.0850 to 0.115 | 108  | 70.0 to 130 | 2.74  | 20.0  |
| BD06613 | Cobalt, Total        | mg/L  | -0.0000008 | 0.000147 | 0.100 | 0.102  | 0.103  | 0.101    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 0.976 | 20.0  |
| BD06613 | Fluoride             | mg/L  | 0.0117     | 0.125    | 2.50  | 2.69   | 2.66   | 2.57     | 2.25 to 2.75    | 108  | 80.0 to 120 | 1.12  | 20.0  |
| BD06614 | Iron, Dissolved      | mg/L  | -0.000107  | 0.0176   | 0.2   | 0.757  | 0.755  | 0.202    | 0.170 to 0.230  | 97.5 | 70.0 to 130 | 0.265 | 20.0  |
| BD06613 | Iron, Total          | mg/L  | -0.000067  | 0.0176   | 0.2   | 100    | 100    | 0.194    | 0.170 to 0.230  | -500 | 70.0 to 130 | 0.00  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/3/23 14:24

**Customer ID:**

**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-25H

**Laboratory ID Number:** BD06608

| Sample  | Analysis               | Units | MB        |          | Spike | MS      | MSD     | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB        | Limit    |       |         |         | Standard | Limit              | Rec  | Limit       |       |       |
| BD06614 | Lead, Dissolved        | mg/L  | 0.0000188 | 0.000147 | 0.100 | 0.0994  | 0.0993  | 0.101    | 0.0850 to 0.115    | 99.4 | 70.0 to 130 | 0.101 | 20.0  |
| BD06613 | Lead, Total            | mg/L  | 0.0000100 | 0.000147 | 0.100 | 0.0971  | 0.0966  | 0.0990   | 0.0850 to 0.115    | 97.1 | 70.0 to 130 | 0.516 | 20.0  |
| BD06614 | Lithium, Dissolved     | mg/L  | 0.000058  | 0.0154   | 0.200 | 0.207   | 0.204   | 0.197    | 0.170 to 0.230     | 104  | 70.0 to 130 | 1.46  | 20.0  |
| BD06613 | Lithium, Total         | mg/L  | 0.000883  | 0.0154   | 0.200 | 0.202   | 0.201   | 0.191    | 0.170 to 0.230     | 101  | 70.0 to 130 | 0.496 | 20.0  |
| BD06614 | Magnesium, Dissolved   | mg/L  | -0.00906  | 0.0462   | 5.00  | 5.15    | 4.89    | 4.92     | 4.25 to 5.75       | 98.5 | 70.0 to 130 | 5.18  | 20.0  |
| BD06613 | Magnesium, Total       | mg/L  | -0.00266  | 0.0462   | 5.00  | 16.8    | 16.7    | 4.86     | 4.25 to 5.75       | 96.0 | 70.0 to 130 | 0.597 | 20.0  |
| BD06614 | Manganese, Dissolved   | mg/L  | 0.0000223 | 0.00033  | 0.100 | 0.115   | 0.120   | 0.102    | 0.0850 to 0.115    | 98.9 | 70.0 to 130 | 4.26  | 20.0  |
| BD06613 | Manganese, Total       | mg/L  | 0.0000173 | 0.00033  | 0.100 | 0.894   | 0.904   | 0.101    | 0.0850 to 0.115    | 81.0 | 70.0 to 130 | 1.11  | 20.0  |
| BD06613 | Mercury, Total by CVAA | mg/L  | 3.000E-05 | 0.000500 | 0.004 | 0.00402 | 0.00407 | 0.00409  | 0.00340 to 0.00460 | 100  | 70.0 to 130 | 1.24  | 20.0  |
| BD06614 | Molybdenum, Dissolved  | mg/L  | 0.000012  | 0.0100   | 0.2   | 0.206   | 0.206   | 0.203    | 0.170 to 0.230     | 103  | 70.0 to 130 | 0.00  | 20.0  |
| BD06613 | Molybdenum, Total      | mg/L  | 0.000     | 0.0100   | 0.2   | 0.200   | 0.199   | 0.199    | 0.170 to 0.230     | 100  | 70.0 to 130 | 0.501 | 20.0  |
| BD06614 | Potassium, Dissolved   | mg/L  | 0.0134    | 0.367    | 10.0  | 11.0    | 11.2    | 10.4     | 8.50 to 11.5       | 99.1 | 70.0 to 130 | 1.80  | 20.0  |
| BD06613 | Potassium, Total       | mg/L  | 0.0131    | 0.367    | 10.0  | 12.3    | 12.3    | 10.0     | 8.50 to 11.5       | 99.9 | 70.0 to 130 | 0.00  | 20.0  |
| BD06614 | Selenium, Dissolved    | mg/L  | 0.0000543 | 0.00100  | 0.100 | 0.109   | 0.112   | 0.109    | 0.0850 to 0.115    | 109  | 70.0 to 130 | 2.71  | 20.0  |
| BD06613 | Selenium, Total        | mg/L  | 0.000122  | 0.00100  | 0.100 | 0.103   | 0.0993  | 0.103    | 0.0850 to 0.115    | 103  | 70.0 to 130 | 3.66  | 20.0  |
| BD06614 | Silicon, Dissolved     | mg/L  | 0.000048  | 0.0440   | 1.00  | 6.94    | 6.92    | 1.01     | 0.850 to 1.15      | 102  | 70.0 to 130 | 0.289 | 20.0  |
| BD06613 | Silicon, Total         | mg/L  | 0.00174   | 0.0440   | 1.00  | 14.7    | 14.7    | 0.987    | 0.850 to 1.15      | 90.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD06614 | Sodium, Dissolved      | mg/L  | -0.00120  | 0.0880   | 5.00  | 123     | 122     | 4.73     | 4.25 to 5.75       | -120 | 70.0 to 130 | 0.816 | 20.0  |
| BD06613 | Sodium, Total          | mg/L  | 0.00274   | 0.0880   | 5.00  | 31.5    | 31.4    | 4.66     | 4.25 to 5.75       | 94.0 | 70.0 to 130 | 0.318 | 20.0  |
| BD06613 | Sulfate                | mg/L  | 0.439     | 2.0      | 20.0  | 29.1    | 28.9    | 20.2     | 18.0 to 22.0       | 80.5 | 80.0 to 120 | 0.690 | 20.0  |
| BD06614 | Thallium, Dissolved    | mg/L  | 0.0000007 | 0.000147 | 0.100 | 0.103   | 0.0996  | 0.102    | 0.0850 to 0.115    | 103  | 70.0 to 130 | 3.36  | 20.0  |
| BD06613 | Thallium, Total        | mg/L  | 0.0000062 | 0.000147 | 0.100 | 0.100   | 0.0988  | 0.102    | 0.0850 to 0.115    | 100  | 70.0 to 130 | 1.21  | 20.0  |
| BD06613 | Total Organic Carbon   | mg/L  | 0.142     | 1.00     | 10.0  | 21.8    | 20.3    | 24.2     |                    | 106  | 80.0 to 120 | 7.13  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/3/23 14:24

**Customer ID:**

**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-25H

**Laboratory ID Number:** BD06608

| Sample  | Analysis                  | Units      | MB     | MB Limit | Spike | MS   | Sample Duplicate | Standard | Standard Limit | Rec  | Rec Limit   | Prec  | Prec Limit |
|---------|---------------------------|------------|--------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BD06780 | Alkalinity to pH 4.5      | mg CaCO3/L |        |          |       |      | 147              | 50.5     | 45.0 to 55.0   |      |             | 0.678 | 10.0       |
| BD06613 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.02   | 0.200    | 2.00  | 1.74 | 0.240            | 2.00     | 1.80 to 2.20   | 75.0 | 90.0 to 110 | 0.418 | 15.0       |
| BD06611 | Solids, Dissolved         | mg/L       | 0.0000 | 25.0     |       |      | 393              | 50.0     | 40.0 to 60.0   |      |             | 1.77  | 10.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-25H DUP

**Location Code:** WMWBARAP  
**Collected:** 4/3/23 14:24  
**Customer ID:**  
**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06609

| Name                                | Prepared     | Analyzed            | Vio Spec | DF    | Results                             | Units | MDL      | RL         | Q |
|-------------------------------------|--------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| <b>Analytical Method: EPA 200.7</b> |              | <b>Analyst: ABB</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Boron, Total                      | 4/6/23 06:51 | 4/6/23 12:00        |          | 1.015 | Not Detected                        | mg/L  | 0.030000 | 0.1015     | U |
| * Calcium, Total                    | 4/6/23 06:51 | 4/6/23 12:00        |          | 1.015 | 0.997                               | mg/L  | 0.070035 | 0.406      |   |
| * Iron, Total                       | 4/6/23 06:51 | 4/6/23 12:00        |          | 1.015 | 0.0232                              | mg/L  | 0.008120 | 0.0406     | J |
| * Lithium, Total                    | 4/6/23 06:51 | 4/6/23 12:00        |          | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |
| * Magnesium, Total                  | 4/6/23 06:51 | 4/6/23 12:00        |          | 1.015 | 0.742                               | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Total                 | 4/6/23 06:51 | 4/6/23 12:00        |          | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Total (calc.)             | 4/6/23 06:51 | 4/6/23 12:00        |          | 1     | 15.9                                | mg/L  |          |            |   |
| * Silicon, Total                    | 4/6/23 06:51 | 4/6/23 12:00        |          | 1.015 | 7.42                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Total                     | 4/6/23 06:51 | 4/6/23 12:00        |          | 1.015 | 5.78                                | mg/L  | 0.04060  | 0.406      |   |
| <b>Analytical Method: EPA 200.7</b> |              | <b>Analyst: ABB</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Boron, Dissolved                  | 4/6/23 09:44 | 4/7/23 11:33        |          | 1.015 | Not Detected                        | mg/L  | 0.030000 | 0.1015     | U |
| * Calcium, Dissolved                | 4/6/23 09:44 | 4/7/23 11:33        |          | 1.015 | 0.975                               | mg/L  | 0.070035 | 0.406      |   |
| * Iron, Dissolved                   | 4/6/23 09:44 | 4/7/23 11:33        |          | 1.015 | Not Detected                        | mg/L  | 0.008120 | 0.0406     | U |
| * Lithium, Dissolved                | 4/6/23 09:44 | 4/7/23 11:33        |          | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |
| * Magnesium, Dissolved              | 4/6/23 09:44 | 4/7/23 11:33        |          | 1.015 | 0.758                               | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Dissolved             | 4/6/23 09:44 | 4/7/23 11:33        |          | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Dissolved (calc.)         | 4/6/23 09:44 | 4/7/23 11:33        |          | 1     | 16.1                                | mg/L  |          |            |   |
| * Silicon, Dissolved                | 4/6/23 09:44 | 4/7/23 11:33        |          | 1.015 | 7.51                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Dissolved                 | 4/6/23 09:44 | 4/7/23 11:33        |          | 1.015 | 5.95                                | mg/L  | 0.04060  | 0.406      |   |
| <b>Analytical Method: EPA 200.8</b> |              | <b>Analyst: DLJ</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Antimony, Total                   | 4/6/23 06:51 | 4/7/23 11:49        |          | 1.015 | Not Detected                        | mg/L  | 0.000710 | 0.001015   | U |
| * Aluminum, Total                   | 4/6/23 06:51 | 4/7/23 11:49        |          | 1.015 | 0.0125                              | mg/L  | 0.009135 | 0.05075    | J |
| * Arsenic, Total                    | 4/6/23 06:51 | 4/7/23 11:49        |          | 1.015 | 0.000149                            | mg/L  | 0.000112 | 0.000203   | J |
| * Barium, Total                     | 4/6/23 06:51 | 4/7/23 11:49        |          | 1.015 | 0.0193                              | mg/L  | 0.000508 | 0.001015   |   |
| * Beryllium, Total                  | 4/6/23 06:51 | 4/7/23 11:49        |          | 1.015 | Not Detected                        | mg/L  | 0.000406 | 0.001015   | U |
| * Cadmium, Total                    | 4/6/23 06:51 | 4/7/23 11:49        |          | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |
| * Chromium, Total                   | 4/6/23 06:51 | 4/7/23 11:49        |          | 1.015 | 0.00122                             | mg/L  | 0.000203 | 0.001015   |   |
| * Cobalt, Total                     | 4/6/23 06:51 | 4/7/23 11:49        |          | 1.015 | 0.00125                             | mg/L  | 0.000068 | 0.000203   |   |
| * Lead, Total                       | 4/6/23 06:51 | 4/7/23 11:49        |          | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |
| * Manganese, Total                  | 4/6/23 06:51 | 4/7/23 11:49        |          | 1.015 | 0.00299                             | mg/L  | 0.000152 | 0.001015   |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-25H DUP

**Location Code:** WMWBARAP  
**Collected:** 4/3/23 14:24  
**Customer ID:**  
**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06609

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/6/23 06:51  | 4/7/23 11:49        |          | 1.015 | 0.940        | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/6/23 06:51  | 4/7/23 11:49        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/6/23 06:51  | 4/7/23 11:49        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:26        |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:26        |          | 1.015 | Not Detected | mg/L       | 0.009135 | 0.05075  | U |
| * Arsenic, Dissolved                   | 4/6/23 09:44  | 4/6/23 11:26        |          | 1.015 | Not Detected | mg/L       | 0.000112 | 0.000203 | U |
| * Barium, Dissolved                    | 4/6/23 09:44  | 4/6/23 11:26        |          | 1.015 | 0.0209       | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/6/23 09:44  | 4/6/23 11:26        |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/6/23 09:44  | 4/6/23 11:26        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:26        |          | 1.015 | 0.00115      | mg/L       | 0.000203 | 0.001015 |   |
| * Cobalt, Dissolved                    | 4/6/23 09:44  | 4/6/23 11:26        |          | 1.015 | 0.00127      | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/6/23 09:44  | 4/6/23 11:26        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/6/23 09:44  | 4/6/23 11:26        |          | 1.015 | 0.00295      | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/6/23 09:44  | 4/6/23 11:26        |          | 1.015 | 0.918        | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:26        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:26        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/11/23 18:35 | 4/11/23 22:53       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/6/23 09:02  | 4/6/23 09:02        |          | 1     | Not Detected | mg/L as N  | 0.20     | 0.3      | U |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/17/23 10:54 | 4/17/23 12:30       |          | 1     | 5.64         | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/6/23 10:55  | 4/7/23 12:30        |          | 1     | 40.0         | mg/L       |          | 25       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/17/23 10:54 | 4/17/23 12:30       |          | 1     | 5.64         | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 4/17/23 10:54 | 4/17/23 12:30       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/5/23 15:43  | 4/5/23 15:43        |          | 1     | Not Detected | mg/L       | 1.00     | 2        | U |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-25H DUP

**Location Code:** WMWBARAP

**Collected:** 4/3/23 14:24

**Customer ID:**

**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06609

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results      | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|--------------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: CES</b> |          |    |              |       |      |       |    |
| * Chloride                                   | 4/12/23 11:06 | 4/12/23 11:06       |          | 1  | 5.54         | mg/L  | 0.50 | 0.5   |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: CES</b> |          |    |              |       |      |       |    |
| * Fluoride                                   | 4/13/23 10:28 | 4/13/23 10:28       |          | 1  | Not Detected | mg/L  | 0.06 | 0.125 | U  |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |              |       |      |       |    |
| * Sulfate                                    | 4/6/23 10:06  | 4/6/23 10:06        |          | 1  | 4.48         | mg/L  | 0.6  | 2     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: AWG</b> |          |    |              |       |      |       |    |
| Conductivity                                 | 4/3/23 14:21  | 4/3/23 14:21        |          |    | 45.80        | uS/cm |      |       | FA |
| pH   | 4/3/23 14:21  | 4/3/23 14:21        |          |    | 4.65         | SU    |      |       | FA |
| Temperature                                  | 4/3/23 14:21  | 4/3/23 14:21        |          |    | 23.02        | C     |      |       | FA |
| Turbidity                                    | 4/3/23 14:21  | 4/3/23 14:21        |          |    | 3.98         | NTU   |      |       | FA |
| Sulfide                                      | 4/3/23 14:21  | 4/3/23 14:21        |          |    | 0            | mg/L  |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/3/23 14:24  
**Customer ID:**  
**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-25H DUP

**Laboratory ID Number:** BD06609

| Sample  | Analysis             | Units | MB         | MB       |       |        |        | Standard |                 | Rec  |             |       | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|------|-------|
|         |                      |       |            | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec  | Limit       | Prec  |      |       |
| BD06614 | Aluminum, Dissolved  | mg/L  | -0.000829  | 0.0198   | 0.100 | 0.101  | 0.103  | 0.103    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 1.96  | 20.0 |       |
| BD06613 | Aluminum, Total      | mg/L  | 0.000464   | 0.0198   | 0.100 | 0.104  | 0.106  | 0.103    | 0.0850 to 0.115 | 104  | 70.0 to 130 | 1.90  | 20.0 |       |
| BD06614 | Antimony, Dissolved  | mg/L  | 0.000282   | 0.00100  | 0.100 | 0.105  | 0.107  | 0.105    | 0.0850 to 0.115 | 105  | 70.0 to 130 | 1.89  | 20.0 |       |
| BD06613 | Antimony, Total      | mg/L  | 0.000260   | 0.00100  | 0.100 | 0.0945 | 0.0970 | 0.0922   | 0.0850 to 0.115 | 94.5 | 70.0 to 130 | 2.61  | 20.0 |       |
| BD06614 | Arsenic, Dissolved   | mg/L  | 0.0000293  | 0.000200 | 0.100 | 0.110  | 0.112  | 0.108    | 0.0850 to 0.115 | 109  | 70.0 to 130 | 1.80  | 20.0 |       |
| BD06613 | Arsenic, Total       | mg/L  | 0.0000185  | 0.000200 | 0.100 | 0.0996 | 0.0980 | 0.101    | 0.0850 to 0.115 | 99.2 | 70.0 to 130 | 1.62  | 20.0 |       |
| BD06614 | Barium, Dissolved    | mg/L  | 0.0000004  | 0.00100  | 0.100 | 0.111  | 0.114  | 0.104    | 0.0850 to 0.115 | 103  | 70.0 to 130 | 2.67  | 20.0 |       |
| BD06613 | Barium, Total        | mg/L  | 0.0000235  | 0.00100  | 0.100 | 0.272  | 0.282  | 0.0935   | 0.0850 to 0.115 | 83.0 | 70.0 to 130 | 3.61  | 20.0 |       |
| BD06614 | Beryllium, Dissolved | mg/L  | 0.0000122  | 0.000880 | 0.100 | 0.0988 | 0.102  | 0.0962   | 0.0850 to 0.115 | 98.8 | 70.0 to 130 | 3.19  | 20.0 |       |
| BD06613 | Beryllium, Total     | mg/L  | 0.0000089  | 0.000880 | 0.100 | 0.0946 | 0.0943 | 0.0982   | 0.0850 to 0.115 | 94.6 | 70.0 to 130 | 0.318 | 20.0 |       |
| BD06614 | Boron, Dissolved     | mg/L  | 0.000167   | 0.0650   | 1.00  | 1.32   | 1.30   | 1.01     | 0.850 to 1.15   | 102  | 70.0 to 130 | 1.53  | 20.0 |       |
| BD06613 | Boron, Total         | mg/L  | -0.00119   | 0.0650   | 1.00  | 2.00   | 1.98   | 0.989    | 0.850 to 1.15   | 104  | 70.0 to 130 | 1.01  | 20.0 |       |
| BD06614 | Cadmium, Dissolved   | mg/L  | 0.0000050  | 0.000147 | 0.100 | 0.107  | 0.109  | 0.111    | 0.0850 to 0.115 | 107  | 70.0 to 130 | 1.85  | 20.0 |       |
| BD06613 | Cadmium, Total       | mg/L  | 0.0000000  | 0.000147 | 0.100 | 0.0986 | 0.0971 | 0.0971   | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 1.53  | 20.0 |       |
| BD06614 | Calcium, Dissolved   | mg/L  | -0.0141    | 0.152    | 5.00  | 5.35   | 5.12   | 4.92     | 4.25 to 5.75    | 96.0 | 70.0 to 130 | 4.39  | 20.0 |       |
| BD06613 | Calcium, Total       | mg/L  | 0.00187    | 0.152    | 5.00  | 63.1   | 64.0   | 4.92     | 4.25 to 5.75    | 78.0 | 70.0 to 130 | 1.42  | 20.0 |       |
| BD06612 | Chloride             | mg/L  | 0.0720     | 1.00     | 10.0  | 17.6   | 17.8   | 10.3     | 9.00 to 11.0    | 102  | 80.0 to 120 | 1.13  | 20.0 |       |
| BD06614 | Chromium, Dissolved  | mg/L  | -0.0000464 | 0.000440 | 0.100 | 0.106  | 0.110  | 0.111    | 0.0850 to 0.115 | 106  | 70.0 to 130 | 3.70  | 20.0 |       |
| BD06613 | Chromium, Total      | mg/L  | 0.0000577  | 0.000440 | 0.100 | 0.0980 | 0.0992 | 0.0984   | 0.0850 to 0.115 | 97.5 | 70.0 to 130 | 1.22  | 20.0 |       |
| BD06614 | Cobalt, Dissolved    | mg/L  | -0.0000057 | 0.000147 | 0.100 | 0.108  | 0.111  | 0.110    | 0.0850 to 0.115 | 108  | 70.0 to 130 | 2.74  | 20.0 |       |
| BD06613 | Cobalt, Total        | mg/L  | -0.0000008 | 0.000147 | 0.100 | 0.102  | 0.103  | 0.101    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 0.976 | 20.0 |       |
| BD06613 | Fluoride             | mg/L  | 0.0117     | 0.125    | 2.50  | 2.69   | 2.66   | 2.57     | 2.25 to 2.75    | 108  | 80.0 to 120 | 1.12  | 20.0 |       |
| BD06614 | Iron, Dissolved      | mg/L  | -0.000107  | 0.0176   | 0.2   | 0.757  | 0.755  | 0.202    | 0.170 to 0.230  | 97.5 | 70.0 to 130 | 0.265 | 20.0 |       |
| BD06613 | Iron, Total          | mg/L  | -0.000067  | 0.0176   | 0.2   | 100    | 100    | 0.194    | 0.170 to 0.230  | -500 | 70.0 to 130 | 0.00  | 20.0 |       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/3/23 14:24

**Customer ID:**

**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-25H DUP

**Laboratory ID Number:** BD06609

| Sample  | Analysis               | Units | MB        |          | Spike | MS      | MSD     | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB        | Limit    |       |         |         | Standard | Limit              | Rec  | Limit       |       |       |
| BD06614 | Lead, Dissolved        | mg/L  | 0.0000188 | 0.000147 | 0.100 | 0.0994  | 0.0993  | 0.101    | 0.0850 to 0.115    | 99.4 | 70.0 to 130 | 0.101 | 20.0  |
| BD06613 | Lead, Total            | mg/L  | 0.0000100 | 0.000147 | 0.100 | 0.0971  | 0.0966  | 0.0990   | 0.0850 to 0.115    | 97.1 | 70.0 to 130 | 0.516 | 20.0  |
| BD06614 | Lithium, Dissolved     | mg/L  | 0.000058  | 0.0154   | 0.200 | 0.207   | 0.204   | 0.197    | 0.170 to 0.230     | 104  | 70.0 to 130 | 1.46  | 20.0  |
| BD06613 | Lithium, Total         | mg/L  | 0.000883  | 0.0154   | 0.200 | 0.202   | 0.201   | 0.191    | 0.170 to 0.230     | 101  | 70.0 to 130 | 0.496 | 20.0  |
| BD06614 | Magnesium, Dissolved   | mg/L  | -0.00906  | 0.0462   | 5.00  | 5.15    | 4.89    | 4.92     | 4.25 to 5.75       | 98.5 | 70.0 to 130 | 5.18  | 20.0  |
| BD06613 | Magnesium, Total       | mg/L  | -0.00266  | 0.0462   | 5.00  | 16.8    | 16.7    | 4.86     | 4.25 to 5.75       | 96.0 | 70.0 to 130 | 0.597 | 20.0  |
| BD06614 | Manganese, Dissolved   | mg/L  | 0.0000223 | 0.00033  | 0.100 | 0.115   | 0.120   | 0.102    | 0.0850 to 0.115    | 98.9 | 70.0 to 130 | 4.26  | 20.0  |
| BD06613 | Manganese, Total       | mg/L  | 0.0000173 | 0.00033  | 0.100 | 0.894   | 0.904   | 0.101    | 0.0850 to 0.115    | 81.0 | 70.0 to 130 | 1.11  | 20.0  |
| BD06613 | Mercury, Total by CVAA | mg/L  | 3.000E-05 | 0.000500 | 0.004 | 0.00402 | 0.00407 | 0.00409  | 0.00340 to 0.00460 | 100  | 70.0 to 130 | 1.24  | 20.0  |
| BD06614 | Molybdenum, Dissolved  | mg/L  | 0.000012  | 0.0100   | 0.2   | 0.206   | 0.206   | 0.203    | 0.170 to 0.230     | 103  | 70.0 to 130 | 0.00  | 20.0  |
| BD06613 | Molybdenum, Total      | mg/L  | 0.000     | 0.0100   | 0.2   | 0.200   | 0.199   | 0.199    | 0.170 to 0.230     | 100  | 70.0 to 130 | 0.501 | 20.0  |
| BD06614 | Potassium, Dissolved   | mg/L  | 0.0134    | 0.367    | 10.0  | 11.0    | 11.2    | 10.4     | 8.50 to 11.5       | 99.1 | 70.0 to 130 | 1.80  | 20.0  |
| BD06613 | Potassium, Total       | mg/L  | 0.0131    | 0.367    | 10.0  | 12.3    | 12.3    | 10.0     | 8.50 to 11.5       | 99.9 | 70.0 to 130 | 0.00  | 20.0  |
| BD06614 | Selenium, Dissolved    | mg/L  | 0.0000543 | 0.00100  | 0.100 | 0.109   | 0.112   | 0.109    | 0.0850 to 0.115    | 109  | 70.0 to 130 | 2.71  | 20.0  |
| BD06613 | Selenium, Total        | mg/L  | 0.000122  | 0.00100  | 0.100 | 0.103   | 0.0993  | 0.103    | 0.0850 to 0.115    | 103  | 70.0 to 130 | 3.66  | 20.0  |
| BD06614 | Silicon, Dissolved     | mg/L  | 0.000048  | 0.0440   | 1.00  | 6.94    | 6.92    | 1.01     | 0.850 to 1.15      | 102  | 70.0 to 130 | 0.289 | 20.0  |
| BD06613 | Silicon, Total         | mg/L  | 0.00174   | 0.0440   | 1.00  | 14.7    | 14.7    | 0.987    | 0.850 to 1.15      | 90.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD06614 | Sodium, Dissolved      | mg/L  | -0.00120  | 0.0880   | 5.00  | 123     | 122     | 4.73     | 4.25 to 5.75       | -120 | 70.0 to 130 | 0.816 | 20.0  |
| BD06613 | Sodium, Total          | mg/L  | 0.00274   | 0.0880   | 5.00  | 31.5    | 31.4    | 4.66     | 4.25 to 5.75       | 94.0 | 70.0 to 130 | 0.318 | 20.0  |
| BD06613 | Sulfate                | mg/L  | 0.439     | 2.0      | 20.0  | 29.1    | 28.9    | 20.2     | 18.0 to 22.0       | 80.5 | 80.0 to 120 | 0.690 | 20.0  |
| BD06614 | Thallium, Dissolved    | mg/L  | 0.0000007 | 0.000147 | 0.100 | 0.103   | 0.0996  | 0.102    | 0.0850 to 0.115    | 103  | 70.0 to 130 | 3.36  | 20.0  |
| BD06613 | Thallium, Total        | mg/L  | 0.0000062 | 0.000147 | 0.100 | 0.100   | 0.0988  | 0.102    | 0.0850 to 0.115    | 100  | 70.0 to 130 | 1.21  | 20.0  |
| BD06613 | Total Organic Carbon   | mg/L  | 0.142     | 1.00     | 10.0  | 21.8    | 20.3    | 24.2     |                    | 106  | 80.0 to 120 | 7.13  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/3/23 14:24

**Customer ID:**

**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-25H DUP

**Laboratory ID Number:** BD06609

| Sample  | Analysis                  | Units      | MB     | MB Limit | Spike | MS   | Sample Duplicate | Standard | Standard Limit | Rec  | Rec Limit   | Prec  | Prec Limit |
|---------|---------------------------|------------|--------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BD06780 | Alkalinity to pH 4.5      | mg CaCO3/L |        |          |       |      | 147              | 50.5     | 45.0 to 55.0   |      |             | 0.678 | 10.0       |
| BD06613 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.02   | 0.200    | 2.00  | 1.74 | 0.240            | 2.00     | 1.80 to 2.20   | 75.0 | 90.0 to 110 | 0.418 | 15.0       |
| BD06611 | Solids, Dissolved         | mg/L       | 0.0000 | 25.0     |       |      | 393              | 50.0     | 40.0 to 60.0   |      |             | 1.77  | 10.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-25V

**Location Code:** WMWBARAP  
**Collected:** 4/3/23 15:17  
**Customer ID:**  
**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06610

| Name                                | Prepared     | Analyzed            | Vio Spec | DF    | Results                             | Units | MDL      | RL         | Q |  |
|-------------------------------------|--------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| <b>Analytical Method: EPA 200.7</b> |              | <b>Analyst: ABB</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |  |
| * Boron, Total                      | 4/6/23 06:51 | 4/6/23 12:03        |          | 1.015 | Not Detected                        | mg/L  | 0.030000 | 0.1015     | U |  |
| * Calcium, Total                    | 4/6/23 06:51 | 4/6/23 12:03        |          | 1.015 | 0.703                               | mg/L  | 0.070035 | 0.406      |   |  |
| * Iron, Total                       | 4/6/23 06:51 | 4/6/23 12:03        |          | 1.015 | 0.0467                              | mg/L  | 0.008120 | 0.0406     |   |  |
| * Lithium, Total                    | 4/6/23 06:51 | 4/6/23 12:03        |          | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |  |
| * Magnesium, Total                  | 4/6/23 06:51 | 4/6/23 12:03        |          | 1.015 | 0.399                               | mg/L  | 0.021315 | 0.406      | J |  |
| * Molybdenum, Total                 | 4/6/23 06:51 | 4/6/23 12:03        |          | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |  |
| * Silica, Total (calc.)             | 4/6/23 06:51 | 4/6/23 12:03        |          | 1     | 13.6                                | mg/L  |          |            |   |  |
| * Silicon, Total                    | 4/6/23 06:51 | 4/6/23 12:03        |          | 1.015 | 6.36                                | mg/L  | 0.02030  | 0.25375    |   |  |
| * Sodium, Total                     | 4/6/23 06:51 | 4/6/23 12:03        |          | 1.015 | 4.41                                | mg/L  | 0.04060  | 0.406      |   |  |
| <b>Analytical Method: EPA 200.7</b> |              | <b>Analyst: ABB</b> |          |       |                                     |       |          |            |   |  |
| * Boron, Dissolved                  | 4/6/23 09:44 | 4/7/23 11:36        |          | 1.015 | Not Detected                        | mg/L  | 0.030000 | 0.1015     | U |  |
| * Calcium, Dissolved                | 4/6/23 09:44 | 4/7/23 11:36        |          | 1.015 | 0.680                               | mg/L  | 0.070035 | 0.406      |   |  |
| * Iron, Dissolved                   | 4/6/23 09:44 | 4/7/23 11:36        |          | 1.015 | Not Detected                        | mg/L  | 0.008120 | 0.0406     | U |  |
| * Lithium, Dissolved                | 4/6/23 09:44 | 4/7/23 11:36        |          | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |  |
| * Magnesium, Dissolved              | 4/6/23 09:44 | 4/7/23 11:36        |          | 1.015 | 0.404                               | mg/L  | 0.021315 | 0.406      | J |  |
| * Molybdenum, Dissolved             | 4/6/23 09:44 | 4/7/23 11:36        |          | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |  |
| * Silica, Dissolved (calc.)         | 4/6/23 09:44 | 4/7/23 11:36        |          | 1     | 13.7                                | mg/L  |          |            |   |  |
| * Silicon, Dissolved                | 4/6/23 09:44 | 4/7/23 11:36        |          | 1.015 | 6.41                                | mg/L  | 0.02030  | 0.25375    |   |  |
| * Sodium, Dissolved                 | 4/6/23 09:44 | 4/7/23 11:36        |          | 1.015 | 4.54                                | mg/L  | 0.04060  | 0.406      |   |  |
| <b>Analytical Method: EPA 200.8</b> |              | <b>Analyst: DLJ</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |  |
| * Antimony, Total                   | 4/6/23 06:51 | 4/7/23 11:53        |          | 1.015 | Not Detected                        | mg/L  | 0.000710 | 0.001015   | U |  |
| * Aluminum, Total                   | 4/6/23 06:51 | 4/7/23 11:53        |          | 1.015 | 0.0185                              | mg/L  | 0.009135 | 0.05075    | J |  |
| * Arsenic, Total                    | 4/6/23 06:51 | 4/7/23 11:53        |          | 1.015 | Not Detected                        | mg/L  | 0.000112 | 0.000203   | U |  |
| * Barium, Total                     | 4/6/23 06:51 | 4/7/23 11:53        |          | 1.015 | 0.0105                              | mg/L  | 0.000508 | 0.001015   |   |  |
| * Beryllium, Total                  | 4/6/23 06:51 | 4/7/23 11:53        |          | 1.015 | Not Detected                        | mg/L  | 0.000406 | 0.001015   | U |  |
| * Cadmium, Total                    | 4/6/23 06:51 | 4/7/23 11:53        |          | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |  |
| * Chromium, Total                   | 4/6/23 06:51 | 4/7/23 11:53        |          | 1.015 | 0.00130                             | mg/L  | 0.000203 | 0.001015   |   |  |
| * Cobalt, Total                     | 4/6/23 06:51 | 4/7/23 11:53        |          | 1.015 | 0.000304                            | mg/L  | 0.000068 | 0.000203   |   |  |
| * Lead, Total                       | 4/6/23 06:51 | 4/7/23 11:53        |          | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |  |
| * Manganese, Total                  | 4/6/23 06:51 | 4/7/23 11:53        |          | 1.015 | 0.00489                             | mg/L  | 0.000152 | 0.001015   |   |  |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-25V

**Location Code:** WMWBARAP

**Collected:** 4/3/23 15:17

**Customer ID:**

**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06610

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/6/23 06:51  | 4/7/23 11:53        |          | 1.015 | 0.786        | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/6/23 06:51  | 4/7/23 11:53        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/6/23 06:51  | 4/7/23 11:53        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:30        |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:30        |          | 1.015 | Not Detected | mg/L       | 0.009135 | 0.05075  | U |
| * Arsenic, Dissolved                   | 4/6/23 09:44  | 4/6/23 11:30        |          | 1.015 | Not Detected | mg/L       | 0.000112 | 0.000203 | U |
| * Barium, Dissolved                    | 4/6/23 09:44  | 4/6/23 11:30        |          | 1.015 | 0.0114       | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/6/23 09:44  | 4/6/23 11:30        |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/6/23 09:44  | 4/6/23 11:30        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:30        |          | 1.015 | 0.00123      | mg/L       | 0.000203 | 0.001015 |   |
| * Cobalt, Dissolved                    | 4/6/23 09:44  | 4/6/23 11:30        |          | 1.015 | 0.000352     | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/6/23 09:44  | 4/6/23 11:30        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/6/23 09:44  | 4/6/23 11:30        |          | 1.015 | 0.00500      | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/6/23 09:44  | 4/6/23 11:30        |          | 1.015 | 0.831        | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:30        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:30        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/11/23 18:35 | 4/11/23 22:57       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/6/23 09:04  | 4/6/23 09:04        |          | 1     | Not Detected | mg/L as N  | 0.20     | 0.3      | U |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/17/23 10:54 | 4/17/23 12:30       |          | 1     | 8.08         | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/6/23 10:55  | 4/7/23 12:30        |          | 1     | 29.3         | mg/L       |          | 25       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/17/23 10:54 | 4/17/23 12:30       |          | 1     | 8.08         | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 4/17/23 10:54 | 4/17/23 12:30       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/5/23 15:58  | 4/5/23 15:58        |          | 1     | Not Detected | mg/L       | 1.00     | 2        | U |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-25V

**Location Code:** WMWBARAP

**Collected:** 4/3/23 15:17

**Customer ID:**

**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06610

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results      | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|--------------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: CES</b> |          |    |              |       |      |       |    |
| * Chloride                                   | 4/12/23 10:59 | 4/12/23 10:59       |          | 1  | 3.61         | mg/L  | 0.50 | 0.5   |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: CES</b> |          |    |              |       |      |       |    |
| * Fluoride                                   | 4/13/23 10:29 | 4/13/23 10:29       |          | 1  | Not Detected | mg/L  | 0.06 | 0.125 | U  |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |              |       |      |       |    |
| * Sulfate                                    | 4/6/23 10:08  | 4/6/23 10:08        |          | 1  | 2.28         | mg/L  | 0.6  | 2     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: AWG</b> |          |    |              |       |      |       |    |
| Conductivity                                 | 4/3/23 15:15  | 4/3/23 15:15        |          |    | 31.89        | uS/cm |      |       | FA |
| pH   | 4/3/23 15:15  | 4/3/23 15:15        |          |    | 4.80         | SU    |      |       | FA |
| Temperature                                  | 4/3/23 15:15  | 4/3/23 15:15        |          |    | 23.31        | C     |      |       | FA |
| Turbidity                                    | 4/3/23 15:15  | 4/3/23 15:15        |          |    | 3.94         | NTU   |      |       | FA |
| Sulfide                                      | 4/3/23 15:15  | 4/3/23 15:15        |          |    | 0            | mg/L  |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/3/23 15:17  
**Customer ID:**  
**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-25V

**Laboratory ID Number:** BD06610

| Sample  | Analysis             | Units | MB         |          |       |        |        | Standard |                 | Rec  |             | Prec  | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
|         |                      |       | MB         | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec  | Limit       |       |       |
| BD06614 | Aluminum, Dissolved  | mg/L  | -0.000829  | 0.0198   | 0.100 | 0.101  | 0.103  | 0.103    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 1.96  | 20.0  |
| BD06613 | Aluminum, Total      | mg/L  | 0.000464   | 0.0198   | 0.100 | 0.104  | 0.106  | 0.103    | 0.0850 to 0.115 | 104  | 70.0 to 130 | 1.90  | 20.0  |
| BD06614 | Antimony, Dissolved  | mg/L  | 0.000282   | 0.00100  | 0.100 | 0.105  | 0.107  | 0.105    | 0.0850 to 0.115 | 105  | 70.0 to 130 | 1.89  | 20.0  |
| BD06613 | Antimony, Total      | mg/L  | 0.000260   | 0.00100  | 0.100 | 0.0945 | 0.0970 | 0.0922   | 0.0850 to 0.115 | 94.5 | 70.0 to 130 | 2.61  | 20.0  |
| BD06614 | Arsenic, Dissolved   | mg/L  | 0.000293   | 0.000200 | 0.100 | 0.110  | 0.112  | 0.108    | 0.0850 to 0.115 | 109  | 70.0 to 130 | 1.80  | 20.0  |
| BD06613 | Arsenic, Total       | mg/L  | 0.000185   | 0.000200 | 0.100 | 0.0996 | 0.0980 | 0.101    | 0.0850 to 0.115 | 99.2 | 70.0 to 130 | 1.62  | 20.0  |
| BD06614 | Barium, Dissolved    | mg/L  | 0.000004   | 0.00100  | 0.100 | 0.111  | 0.114  | 0.104    | 0.0850 to 0.115 | 103  | 70.0 to 130 | 2.67  | 20.0  |
| BD06613 | Barium, Total        | mg/L  | 0.0000235  | 0.00100  | 0.100 | 0.272  | 0.282  | 0.0935   | 0.0850 to 0.115 | 83.0 | 70.0 to 130 | 3.61  | 20.0  |
| BD06614 | Beryllium, Dissolved | mg/L  | 0.0000122  | 0.000880 | 0.100 | 0.0988 | 0.102  | 0.0962   | 0.0850 to 0.115 | 98.8 | 70.0 to 130 | 3.19  | 20.0  |
| BD06613 | Beryllium, Total     | mg/L  | 0.0000089  | 0.000880 | 0.100 | 0.0946 | 0.0943 | 0.0982   | 0.0850 to 0.115 | 94.6 | 70.0 to 130 | 0.318 | 20.0  |
| BD06614 | Boron, Dissolved     | mg/L  | 0.000167   | 0.0650   | 1.00  | 1.32   | 1.30   | 1.01     | 0.850 to 1.15   | 102  | 70.0 to 130 | 1.53  | 20.0  |
| BD06613 | Boron, Total         | mg/L  | -0.00119   | 0.0650   | 1.00  | 2.00   | 1.98   | 0.989    | 0.850 to 1.15   | 104  | 70.0 to 130 | 1.01  | 20.0  |
| BD06614 | Cadmium, Dissolved   | mg/L  | 0.0000050  | 0.000147 | 0.100 | 0.107  | 0.109  | 0.111    | 0.0850 to 0.115 | 107  | 70.0 to 130 | 1.85  | 20.0  |
| BD06613 | Cadmium, Total       | mg/L  | 0.0000000  | 0.000147 | 0.100 | 0.0986 | 0.0971 | 0.0971   | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 1.53  | 20.0  |
| BD06614 | Calcium, Dissolved   | mg/L  | -0.0141    | 0.152    | 5.00  | 5.35   | 5.12   | 4.92     | 4.25 to 5.75    | 96.0 | 70.0 to 130 | 4.39  | 20.0  |
| BD06613 | Calcium, Total       | mg/L  | 0.00187    | 0.152    | 5.00  | 63.1   | 64.0   | 4.92     | 4.25 to 5.75    | 78.0 | 70.0 to 130 | 1.42  | 20.0  |
| BD06612 | Chloride             | mg/L  | 0.0720     | 1.00     | 10.0  | 17.6   | 17.8   | 10.3     | 9.00 to 11.0    | 102  | 80.0 to 120 | 1.13  | 20.0  |
| BD06614 | Chromium, Dissolved  | mg/L  | -0.0000464 | 0.000440 | 0.100 | 0.106  | 0.110  | 0.111    | 0.0850 to 0.115 | 106  | 70.0 to 130 | 3.70  | 20.0  |
| BD06613 | Chromium, Total      | mg/L  | 0.0000577  | 0.000440 | 0.100 | 0.0980 | 0.0992 | 0.0984   | 0.0850 to 0.115 | 97.5 | 70.0 to 130 | 1.22  | 20.0  |
| BD06614 | Cobalt, Dissolved    | mg/L  | -0.0000057 | 0.000147 | 0.100 | 0.108  | 0.111  | 0.110    | 0.0850 to 0.115 | 108  | 70.0 to 130 | 2.74  | 20.0  |
| BD06613 | Cobalt, Total        | mg/L  | -0.0000008 | 0.000147 | 0.100 | 0.102  | 0.103  | 0.101    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 0.976 | 20.0  |
| BD06613 | Fluoride             | mg/L  | 0.0117     | 0.125    | 2.50  | 2.69   | 2.66   | 2.57     | 2.25 to 2.75    | 108  | 80.0 to 120 | 1.12  | 20.0  |
| BD06614 | Iron, Dissolved      | mg/L  | -0.000107  | 0.0176   | 0.2   | 0.757  | 0.755  | 0.202    | 0.170 to 0.230  | 97.5 | 70.0 to 130 | 0.265 | 20.0  |
| BD06613 | Iron, Total          | mg/L  | -0.000067  | 0.0176   | 0.2   | 100    | 100    | 0.194    | 0.170 to 0.230  | -500 | 70.0 to 130 | 0.00  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/3/23 15:17

**Customer ID:**

**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-25V

**Laboratory ID Number:** BD06610

| Sample  | Analysis               | Units | MB        |          | Spike | MS      | MSD     | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB        | Limit    |       |         |         | Standard | Limit              | Rec  | Limit       |       |       |
| BD06614 | Lead, Dissolved        | mg/L  | 0.0000188 | 0.000147 | 0.100 | 0.0994  | 0.0993  | 0.101    | 0.0850 to 0.115    | 99.4 | 70.0 to 130 | 0.101 | 20.0  |
| BD06613 | Lead, Total            | mg/L  | 0.0000100 | 0.000147 | 0.100 | 0.0971  | 0.0966  | 0.0990   | 0.0850 to 0.115    | 97.1 | 70.0 to 130 | 0.516 | 20.0  |
| BD06614 | Lithium, Dissolved     | mg/L  | 0.000058  | 0.0154   | 0.200 | 0.207   | 0.204   | 0.197    | 0.170 to 0.230     | 104  | 70.0 to 130 | 1.46  | 20.0  |
| BD06613 | Lithium, Total         | mg/L  | 0.000883  | 0.0154   | 0.200 | 0.202   | 0.201   | 0.191    | 0.170 to 0.230     | 101  | 70.0 to 130 | 0.496 | 20.0  |
| BD06614 | Magnesium, Dissolved   | mg/L  | -0.00906  | 0.0462   | 5.00  | 5.15    | 4.89    | 4.92     | 4.25 to 5.75       | 98.5 | 70.0 to 130 | 5.18  | 20.0  |
| BD06613 | Magnesium, Total       | mg/L  | -0.00266  | 0.0462   | 5.00  | 16.8    | 16.7    | 4.86     | 4.25 to 5.75       | 96.0 | 70.0 to 130 | 0.597 | 20.0  |
| BD06614 | Manganese, Dissolved   | mg/L  | 0.0000223 | 0.00033  | 0.100 | 0.115   | 0.120   | 0.102    | 0.0850 to 0.115    | 98.9 | 70.0 to 130 | 4.26  | 20.0  |
| BD06613 | Manganese, Total       | mg/L  | 0.0000173 | 0.00033  | 0.100 | 0.894   | 0.904   | 0.101    | 0.0850 to 0.115    | 81.0 | 70.0 to 130 | 1.11  | 20.0  |
| BD06613 | Mercury, Total by CVAA | mg/L  | 3.000E-05 | 0.000500 | 0.004 | 0.00402 | 0.00407 | 0.00409  | 0.00340 to 0.00460 | 100  | 70.0 to 130 | 1.24  | 20.0  |
| BD06614 | Molybdenum, Dissolved  | mg/L  | 0.000012  | 0.0100   | 0.2   | 0.206   | 0.206   | 0.203    | 0.170 to 0.230     | 103  | 70.0 to 130 | 0.00  | 20.0  |
| BD06613 | Molybdenum, Total      | mg/L  | 0.000     | 0.0100   | 0.2   | 0.200   | 0.199   | 0.199    | 0.170 to 0.230     | 100  | 70.0 to 130 | 0.501 | 20.0  |
| BD06614 | Potassium, Dissolved   | mg/L  | 0.0134    | 0.367    | 10.0  | 11.0    | 11.2    | 10.4     | 8.50 to 11.5       | 99.1 | 70.0 to 130 | 1.80  | 20.0  |
| BD06613 | Potassium, Total       | mg/L  | 0.0131    | 0.367    | 10.0  | 12.3    | 12.3    | 10.0     | 8.50 to 11.5       | 99.9 | 70.0 to 130 | 0.00  | 20.0  |
| BD06614 | Selenium, Dissolved    | mg/L  | 0.0000543 | 0.00100  | 0.100 | 0.109   | 0.112   | 0.109    | 0.0850 to 0.115    | 109  | 70.0 to 130 | 2.71  | 20.0  |
| BD06613 | Selenium, Total        | mg/L  | 0.000122  | 0.00100  | 0.100 | 0.103   | 0.0993  | 0.103    | 0.0850 to 0.115    | 103  | 70.0 to 130 | 3.66  | 20.0  |
| BD06614 | Silicon, Dissolved     | mg/L  | 0.000048  | 0.0440   | 1.00  | 6.94    | 6.92    | 1.01     | 0.850 to 1.15      | 102  | 70.0 to 130 | 0.289 | 20.0  |
| BD06613 | Silicon, Total         | mg/L  | 0.00174   | 0.0440   | 1.00  | 14.7    | 14.7    | 0.987    | 0.850 to 1.15      | 90.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD06614 | Sodium, Dissolved      | mg/L  | -0.00120  | 0.0880   | 5.00  | 123     | 122     | 4.73     | 4.25 to 5.75       | -120 | 70.0 to 130 | 0.816 | 20.0  |
| BD06613 | Sodium, Total          | mg/L  | 0.00274   | 0.0880   | 5.00  | 31.5    | 31.4    | 4.66     | 4.25 to 5.75       | 94.0 | 70.0 to 130 | 0.318 | 20.0  |
| BD06613 | Sulfate                | mg/L  | 0.439     | 2.0      | 20.0  | 29.1    | 28.9    | 20.2     | 18.0 to 22.0       | 80.5 | 80.0 to 120 | 0.690 | 20.0  |
| BD06614 | Thallium, Dissolved    | mg/L  | 0.0000007 | 0.000147 | 0.100 | 0.103   | 0.0996  | 0.102    | 0.0850 to 0.115    | 103  | 70.0 to 130 | 3.36  | 20.0  |
| BD06613 | Thallium, Total        | mg/L  | 0.0000062 | 0.000147 | 0.100 | 0.100   | 0.0988  | 0.102    | 0.0850 to 0.115    | 100  | 70.0 to 130 | 1.21  | 20.0  |
| BD06613 | Total Organic Carbon   | mg/L  | 0.142     | 1.00     | 10.0  | 21.8    | 20.3    | 24.2     |                    | 106  | 80.0 to 120 | 7.13  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/3/23 15:17

**Customer ID:**

**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-25V

**Laboratory ID Number:** BD06610

| Sample  | Analysis                  | Units      | MB     | MB Limit | Spike | MS   | Sample Duplicate | Standard | Standard Limit | Rec  | Rec Limit   | Prec  | Prec Limit |
|---------|---------------------------|------------|--------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BD06780 | Alkalinity to pH 4.5      | mg CaCO3/L |        |          |       |      | 147              | 50.5     | 45.0 to 55.0   |      |             | 0.678 | 10.0       |
| BD06613 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.02   | 0.200    | 2.00  | 1.74 | 0.240            | 2.00     | 1.80 to 2.20   | 75.0 | 90.0 to 110 | 0.418 | 15.0       |
| BD06620 | Solids, Dissolved         | mg/L       | 0.0000 | 25.0     |       |      | 612              | 50.0     | 40.0 to 60.0   |      |             | 0.651 | 10.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-1

**Location Code:** WMWBARAP  
**Collected:** 4/3/23 08:50  
**Customer ID:**  
**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06611

| Name                                | Prepared     | Analyzed     | Vio Spec            | DF    | Results      | Units                               | MDL      | RL         | Q |
|-------------------------------------|--------------|--------------|---------------------|-------|--------------|-------------------------------------|----------|------------|---|
| <b>Analytical Method: EPA 200.7</b> |              |              | <b>Analyst: ABB</b> |       |              | <b>Preparation Method: EPA 1638</b> |          |            |   |
| * Boron, Total                      | 4/6/23 06:51 | 4/6/23 12:06 |                     | 1.015 | 2.04         | mg/L                                | 0.030000 | 0.1015     |   |
| * Calcium, Total                    | 4/6/23 06:51 | 4/6/23 12:06 |                     | 1.015 | 36.9         | mg/L                                | 0.070035 | 0.406      |   |
| * Iron, Total                       | 4/6/23 06:51 | 4/6/23 13:22 |                     | 101.5 | 110          | mg/L                                | 0.8120   | 4.06       |   |
| * Lithium, Total                    | 4/6/23 06:51 | 4/6/23 12:06 |                     | 1.015 | Not Detected | mg/L                                | 0.007105 | 0.01999956 | U |
| * Magnesium, Total                  | 4/6/23 06:51 | 4/6/23 12:06 |                     | 1.015 | 11.6         | mg/L                                | 0.021315 | 0.406      |   |
| * Molybdenum, Total                 | 4/6/23 06:51 | 4/6/23 12:06 |                     | 1.015 | Not Detected | mg/L                                | 0.005075 | 0.01015    | U |
| * Silica, Total (calc.)             | 4/6/23 06:51 | 4/6/23 12:06 |                     | 1     | 24.0         | mg/L                                |          |            |   |
| * Silicon, Total                    | 4/6/23 06:51 | 4/6/23 12:06 |                     | 1.015 | 11.2         | mg/L                                | 0.02030  | 0.25375    |   |
| * Sodium, Total                     | 4/6/23 06:51 | 4/6/23 12:06 |                     | 1.015 | 23.4         | mg/L                                | 0.04060  | 0.406      |   |
| <b>Analytical Method: EPA 200.7</b> |              |              | <b>Analyst: ABB</b> |       |              |                                     |          |            |   |
| * Boron, Dissolved                  | 4/6/23 09:44 | 4/7/23 11:39 |                     | 1.015 | 1.97         | mg/L                                | 0.030000 | 0.1015     |   |
| * Calcium, Dissolved                | 4/6/23 09:44 | 4/7/23 11:39 |                     | 1.015 | 36.4         | mg/L                                | 0.070035 | 0.406      |   |
| * Iron, Dissolved                   | 4/6/23 09:44 | 4/7/23 12:49 |                     | 101.5 | 115          | mg/L                                | 0.8120   | 4.06       |   |
| * Lithium, Dissolved                | 4/6/23 09:44 | 4/7/23 11:39 |                     | 1.015 | Not Detected | mg/L                                | 0.007105 | 0.01999956 | U |
| * Magnesium, Dissolved              | 4/6/23 09:44 | 4/7/23 11:39 |                     | 1.015 | 11.5         | mg/L                                | 0.021315 | 0.406      |   |
| * Molybdenum, Dissolved             | 4/6/23 09:44 | 4/7/23 11:39 |                     | 1.015 | Not Detected | mg/L                                | 0.005075 | 0.01015    | U |
| * Silica, Dissolved (calc.)         | 4/6/23 09:44 | 4/7/23 11:39 |                     | 1     | 24.0         | mg/L                                |          |            |   |
| * Silicon, Dissolved                | 4/6/23 09:44 | 4/7/23 11:39 |                     | 1.015 | 11.2         | mg/L                                | 0.02030  | 0.25375    |   |
| * Sodium, Dissolved                 | 4/6/23 09:44 | 4/7/23 11:39 |                     | 1.015 | 23.9         | mg/L                                | 0.04060  | 0.406      |   |
| <b>Analytical Method: EPA 200.8</b> |              |              | <b>Analyst: DLJ</b> |       |              | <b>Preparation Method: EPA 1638</b> |          |            |   |
| * Antimony, Total                   | 4/6/23 06:51 | 4/7/23 11:56 |                     | 1.015 | Not Detected | mg/L                                | 0.000710 | 0.001015   | U |
| * Aluminum, Total                   | 4/6/23 06:51 | 4/7/23 11:56 |                     | 1.015 | 0.157        | mg/L                                | 0.009135 | 0.05075    |   |
| * Arsenic, Total                    | 4/6/23 06:51 | 4/7/23 11:56 |                     | 1.015 | 0.0680       | mg/L                                | 0.000112 | 0.000203   |   |
| * Barium, Total                     | 4/6/23 06:51 | 4/7/23 11:56 |                     | 1.015 | 0.226        | mg/L                                | 0.000508 | 0.001015   |   |
| * Beryllium, Total                  | 4/6/23 06:51 | 4/7/23 11:56 |                     | 1.015 | Not Detected | mg/L                                | 0.000406 | 0.001015   | U |
| * Cadmium, Total                    | 4/6/23 06:51 | 4/7/23 11:56 |                     | 1.015 | Not Detected | mg/L                                | 0.000068 | 0.000203   | U |
| * Chromium, Total                   | 4/6/23 06:51 | 4/7/23 11:56 |                     | 1.015 | 0.00638      | mg/L                                | 0.000203 | 0.001015   |   |
| * Cobalt, Total                     | 4/6/23 06:51 | 4/7/23 11:56 |                     | 1.015 | 0.00133      | mg/L                                | 0.000068 | 0.000203   |   |
| * Lead, Total                       | 4/6/23 06:51 | 4/7/23 11:56 |                     | 1.015 | 0.000122     | mg/L                                | 0.000068 | 0.000203   | J |
| * Manganese, Total                  | 4/6/23 06:51 | 4/7/23 11:56 |                     | 1.015 | 0.713        | mg/L                                | 0.000152 | 0.001015   |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-1

**Location Code:** WMWBARAP

**Collected:** 4/3/23 08:50

**Customer ID:**

**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06611

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/6/23 06:51  | 4/7/23 11:56        |          | 1.015 | 2.11         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/6/23 06:51  | 4/7/23 11:56        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/6/23 06:51  | 4/7/23 11:56        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:33        |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:33        |          | 1.015 | 0.0167       | mg/L       | 0.009135 | 0.05075  | J |
| * Arsenic, Dissolved                   | 4/6/23 09:44  | 4/6/23 11:33        |          | 1.015 | 0.0751       | mg/L       | 0.000112 | 0.000203 |   |
| * Barium, Dissolved                    | 4/6/23 09:44  | 4/6/23 11:33        |          | 1.015 | 0.222        | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/6/23 09:44  | 4/6/23 11:33        |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/6/23 09:44  | 4/6/23 11:33        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:33        |          | 1.015 | 0.00570      | mg/L       | 0.000203 | 0.001015 |   |
| * Cobalt, Dissolved                    | 4/6/23 09:44  | 4/6/23 11:33        |          | 1.015 | 0.00121      | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/6/23 09:44  | 4/6/23 11:33        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/6/23 09:44  | 4/6/23 11:33        |          | 1.015 | 0.706        | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/6/23 09:44  | 4/6/23 11:33        |          | 1.015 | 2.00         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:33        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:33        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/11/23 18:35 | 4/11/23 23:00       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/6/23 09:06  | 4/6/23 09:06        |          | 1     | 0.245        | mg/L as N  | 0.20     | 0.3      | J |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/14/23 14:44 | 4/14/23 15:50       |          | 1     | 266          | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/6/23 10:55  | 4/7/23 12:30        |          | 1     | 400          | mg/L       |          | 25       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/14/23 14:44 | 4/14/23 15:50       |          | 1     | 266          | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 4/14/23 14:44 | 4/14/23 15:50       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/5/23 16:12  | 4/5/23 16:12        |          | 1     | 13.6         | mg/L       | 1.00     | 2        |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-1

**Location Code:** WMWBARAP

**Collected:** 4/3/23 08:50

**Customer ID:**

**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06611

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Chloride                                   | 4/12/23 11:11 | 4/12/23 11:11       |          | 4  | 23.7    | mg/L  | 2.00 | 2     |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Fluoride                                   | 4/13/23 10:30 | 4/13/23 10:30       |          | 1  | 0.0717  | mg/L  | 0.06 | 0.125 | J  |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |         |       |      |       |    |
| * Sulfate                                    | 4/6/23 10:09  | 4/6/23 10:09        |          | 1  | 34.2    | mg/L  | 0.6  | 2     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: TJD</b> |          |    |         |       |      |       |    |
| Conductivity                                 | 4/3/23 08:47  | 4/3/23 08:47        |          |    | 689.74  | uS/cm |      |       | FA |
| pH   | 4/3/23 08:47  | 4/3/23 08:47        |          |    | 5.78    | SU    |      |       | FA |
| Temperature                                  | 4/3/23 08:47  | 4/3/23 08:47        |          |    | 21.61   | C     |      |       | FA |
| Turbidity                                    | 4/3/23 08:47  | 4/3/23 08:47        |          |    | 4.85    | NTU   |      |       | FA |
| Sulfide                                      | 4/3/23 08:47  | 4/3/23 08:47        |          |    | 0       | mg/L  |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/3/23 08:50  
**Customer ID:**  
**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-1

**Laboratory ID Number:** BD06611

| Sample  | Analysis             | Units | MB         | MB       |       |        |        | Standard |                 | Rec  |             |       | Prec Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|------------|
|         |                      |       |            | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec  | Limit       | Prec  |            |
| BD06614 | Aluminum, Dissolved  | mg/L  | -0.000829  | 0.0198   | 0.100 | 0.101  | 0.103  | 0.103    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 1.96  | 20.0       |
| BD06613 | Aluminum, Total      | mg/L  | 0.000464   | 0.0198   | 0.100 | 0.104  | 0.106  | 0.103    | 0.0850 to 0.115 | 104  | 70.0 to 130 | 1.90  | 20.0       |
| BD06614 | Antimony, Dissolved  | mg/L  | 0.000282   | 0.00100  | 0.100 | 0.105  | 0.107  | 0.105    | 0.0850 to 0.115 | 105  | 70.0 to 130 | 1.89  | 20.0       |
| BD06613 | Antimony, Total      | mg/L  | 0.000260   | 0.00100  | 0.100 | 0.0945 | 0.0970 | 0.0922   | 0.0850 to 0.115 | 94.5 | 70.0 to 130 | 2.61  | 20.0       |
| BD06614 | Arsenic, Dissolved   | mg/L  | 0.000293   | 0.000200 | 0.100 | 0.110  | 0.112  | 0.108    | 0.0850 to 0.115 | 109  | 70.0 to 130 | 1.80  | 20.0       |
| BD06613 | Arsenic, Total       | mg/L  | 0.000185   | 0.000200 | 0.100 | 0.0996 | 0.0980 | 0.101    | 0.0850 to 0.115 | 99.2 | 70.0 to 130 | 1.62  | 20.0       |
| BD06614 | Barium, Dissolved    | mg/L  | 0.000004   | 0.00100  | 0.100 | 0.111  | 0.114  | 0.104    | 0.0850 to 0.115 | 103  | 70.0 to 130 | 2.67  | 20.0       |
| BD06613 | Barium, Total        | mg/L  | 0.0000235  | 0.00100  | 0.100 | 0.272  | 0.282  | 0.0935   | 0.0850 to 0.115 | 83.0 | 70.0 to 130 | 3.61  | 20.0       |
| BD06614 | Beryllium, Dissolved | mg/L  | 0.0000122  | 0.000880 | 0.100 | 0.0988 | 0.102  | 0.0962   | 0.0850 to 0.115 | 98.8 | 70.0 to 130 | 3.19  | 20.0       |
| BD06613 | Beryllium, Total     | mg/L  | 0.0000089  | 0.000880 | 0.100 | 0.0946 | 0.0943 | 0.0982   | 0.0850 to 0.115 | 94.6 | 70.0 to 130 | 0.318 | 20.0       |
| BD06614 | Boron, Dissolved     | mg/L  | 0.000167   | 0.0650   | 1.00  | 1.32   | 1.30   | 1.01     | 0.850 to 1.15   | 102  | 70.0 to 130 | 1.53  | 20.0       |
| BD06613 | Boron, Total         | mg/L  | -0.00119   | 0.0650   | 1.00  | 2.00   | 1.98   | 0.989    | 0.850 to 1.15   | 104  | 70.0 to 130 | 1.01  | 20.0       |
| BD06614 | Cadmium, Dissolved   | mg/L  | 0.0000050  | 0.000147 | 0.100 | 0.107  | 0.109  | 0.111    | 0.0850 to 0.115 | 107  | 70.0 to 130 | 1.85  | 20.0       |
| BD06613 | Cadmium, Total       | mg/L  | 0.0000000  | 0.000147 | 0.100 | 0.0986 | 0.0971 | 0.0971   | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 1.53  | 20.0       |
| BD06614 | Calcium, Dissolved   | mg/L  | -0.0141    | 0.152    | 5.00  | 5.35   | 5.12   | 4.92     | 4.25 to 5.75    | 96.0 | 70.0 to 130 | 4.39  | 20.0       |
| BD06613 | Calcium, Total       | mg/L  | 0.00187    | 0.152    | 5.00  | 63.1   | 64.0   | 4.92     | 4.25 to 5.75    | 78.0 | 70.0 to 130 | 1.42  | 20.0       |
| BD06612 | Chloride             | mg/L  | 0.0720     | 1.00     | 10.0  | 17.6   | 17.8   | 10.3     | 9.00 to 11.0    | 102  | 80.0 to 120 | 1.13  | 20.0       |
| BD06614 | Chromium, Dissolved  | mg/L  | -0.0000464 | 0.000440 | 0.100 | 0.106  | 0.110  | 0.111    | 0.0850 to 0.115 | 106  | 70.0 to 130 | 3.70  | 20.0       |
| BD06613 | Chromium, Total      | mg/L  | 0.0000577  | 0.000440 | 0.100 | 0.0980 | 0.0992 | 0.0984   | 0.0850 to 0.115 | 97.5 | 70.0 to 130 | 1.22  | 20.0       |
| BD06614 | Cobalt, Dissolved    | mg/L  | -0.0000057 | 0.000147 | 0.100 | 0.108  | 0.111  | 0.110    | 0.0850 to 0.115 | 108  | 70.0 to 130 | 2.74  | 20.0       |
| BD06613 | Cobalt, Total        | mg/L  | -0.0000008 | 0.000147 | 0.100 | 0.102  | 0.103  | 0.101    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 0.976 | 20.0       |
| BD06613 | Fluoride             | mg/L  | 0.0117     | 0.125    | 2.50  | 2.69   | 2.66   | 2.57     | 2.25 to 2.75    | 108  | 80.0 to 120 | 1.12  | 20.0       |
| BD06614 | Iron, Dissolved      | mg/L  | -0.000107  | 0.0176   | 0.2   | 0.757  | 0.755  | 0.202    | 0.170 to 0.230  | 97.5 | 70.0 to 130 | 0.265 | 20.0       |
| BD06613 | Iron, Total          | mg/L  | -0.000067  | 0.0176   | 0.2   | 100    | 100    | 0.194    | 0.170 to 0.230  | -500 | 70.0 to 130 | 0.00  | 20.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/3/23 08:50  
**Customer ID:**  
**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-1

**Laboratory ID Number:** BD06611

| Sample  | Analysis               | Units | MB        |          | Spike | MS      | MSD     | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB        | Limit    |       |         |         | Standard | Limit              | Rec  | Limit       |       |       |
| BD06614 | Lead, Dissolved        | mg/L  | 0.0000188 | 0.000147 | 0.100 | 0.0994  | 0.0993  | 0.101    | 0.0850 to 0.115    | 99.4 | 70.0 to 130 | 0.101 | 20.0  |
| BD06613 | Lead, Total            | mg/L  | 0.0000100 | 0.000147 | 0.100 | 0.0971  | 0.0966  | 0.0990   | 0.0850 to 0.115    | 97.1 | 70.0 to 130 | 0.516 | 20.0  |
| BD06614 | Lithium, Dissolved     | mg/L  | 0.000058  | 0.0154   | 0.200 | 0.207   | 0.204   | 0.197    | 0.170 to 0.230     | 104  | 70.0 to 130 | 1.46  | 20.0  |
| BD06613 | Lithium, Total         | mg/L  | 0.000883  | 0.0154   | 0.200 | 0.202   | 0.201   | 0.191    | 0.170 to 0.230     | 101  | 70.0 to 130 | 0.496 | 20.0  |
| BD06614 | Magnesium, Dissolved   | mg/L  | -0.00906  | 0.0462   | 5.00  | 5.15    | 4.89    | 4.92     | 4.25 to 5.75       | 98.5 | 70.0 to 130 | 5.18  | 20.0  |
| BD06613 | Magnesium, Total       | mg/L  | -0.00266  | 0.0462   | 5.00  | 16.8    | 16.7    | 4.86     | 4.25 to 5.75       | 96.0 | 70.0 to 130 | 0.597 | 20.0  |
| BD06614 | Manganese, Dissolved   | mg/L  | 0.0000223 | 0.00033  | 0.100 | 0.115   | 0.120   | 0.102    | 0.0850 to 0.115    | 98.9 | 70.0 to 130 | 4.26  | 20.0  |
| BD06613 | Manganese, Total       | mg/L  | 0.0000173 | 0.00033  | 0.100 | 0.894   | 0.904   | 0.101    | 0.0850 to 0.115    | 81.0 | 70.0 to 130 | 1.11  | 20.0  |
| BD06613 | Mercury, Total by CVAA | mg/L  | 3.000E-05 | 0.000500 | 0.004 | 0.00402 | 0.00407 | 0.00409  | 0.00340 to 0.00460 | 100  | 70.0 to 130 | 1.24  | 20.0  |
| BD06614 | Molybdenum, Dissolved  | mg/L  | 0.000012  | 0.0100   | 0.2   | 0.206   | 0.206   | 0.203    | 0.170 to 0.230     | 103  | 70.0 to 130 | 0.00  | 20.0  |
| BD06613 | Molybdenum, Total      | mg/L  | 0.000     | 0.0100   | 0.2   | 0.200   | 0.199   | 0.199    | 0.170 to 0.230     | 100  | 70.0 to 130 | 0.501 | 20.0  |
| BD06614 | Potassium, Dissolved   | mg/L  | 0.0134    | 0.367    | 10.0  | 11.0    | 11.2    | 10.4     | 8.50 to 11.5       | 99.1 | 70.0 to 130 | 1.80  | 20.0  |
| BD06613 | Potassium, Total       | mg/L  | 0.0131    | 0.367    | 10.0  | 12.3    | 12.3    | 10.0     | 8.50 to 11.5       | 99.9 | 70.0 to 130 | 0.00  | 20.0  |
| BD06614 | Selenium, Dissolved    | mg/L  | 0.0000543 | 0.00100  | 0.100 | 0.109   | 0.112   | 0.109    | 0.0850 to 0.115    | 109  | 70.0 to 130 | 2.71  | 20.0  |
| BD06613 | Selenium, Total        | mg/L  | 0.000122  | 0.00100  | 0.100 | 0.103   | 0.0993  | 0.103    | 0.0850 to 0.115    | 103  | 70.0 to 130 | 3.66  | 20.0  |
| BD06614 | Silicon, Dissolved     | mg/L  | 0.000048  | 0.0440   | 1.00  | 6.94    | 6.92    | 1.01     | 0.850 to 1.15      | 102  | 70.0 to 130 | 0.289 | 20.0  |
| BD06613 | Silicon, Total         | mg/L  | 0.00174   | 0.0440   | 1.00  | 14.7    | 14.7    | 0.987    | 0.850 to 1.15      | 90.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD06614 | Sodium, Dissolved      | mg/L  | -0.00120  | 0.0880   | 5.00  | 123     | 122     | 4.73     | 4.25 to 5.75       | -120 | 70.0 to 130 | 0.816 | 20.0  |
| BD06613 | Sodium, Total          | mg/L  | 0.00274   | 0.0880   | 5.00  | 31.5    | 31.4    | 4.66     | 4.25 to 5.75       | 94.0 | 70.0 to 130 | 0.318 | 20.0  |
| BD06613 | Sulfate                | mg/L  | 0.439     | 2.0      | 20.0  | 29.1    | 28.9    | 20.2     | 18.0 to 22.0       | 80.5 | 80.0 to 120 | 0.690 | 20.0  |
| BD06614 | Thallium, Dissolved    | mg/L  | 0.0000007 | 0.000147 | 0.100 | 0.103   | 0.0996  | 0.102    | 0.0850 to 0.115    | 103  | 70.0 to 130 | 3.36  | 20.0  |
| BD06613 | Thallium, Total        | mg/L  | 0.0000062 | 0.000147 | 0.100 | 0.100   | 0.0988  | 0.102    | 0.0850 to 0.115    | 100  | 70.0 to 130 | 1.21  | 20.0  |
| BD06613 | Total Organic Carbon   | mg/L  | 0.142     | 1.00     | 10.0  | 21.8    | 20.3    | 24.2     |                    | 106  | 80.0 to 120 | 7.13  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/3/23 08:50

**Customer ID:**

**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-1

**Laboratory ID Number:** BD06611

| Sample  | Analysis                  | Units      | MB     | MB Limit | Spike | MS   | Sample Duplicate | Standard | Standard Limit | Rec  | Rec Limit   | Prec  | Prec Limit |
|---------|---------------------------|------------|--------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BD06618 | Alkalinity to pH 4.5      | mg CaCO3/L |        |          |       |      | 25.3             | 50.5     | 45.0 to 55.0   |      |             | 0.794 | 10.0       |
| BD06613 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.02   | 0.200    | 2.00  | 1.74 | 0.240            | 2.00     | 1.80 to 2.20   | 75.0 | 90.0 to 110 | 0.418 | 15.0       |
| BD06611 | Solids, Dissolved         | mg/L       | 0.0000 | 25.0     |       |      | 393              | 50.0     | 40.0 to 60.0   |      |             | 1.77  | 10.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-2

**Location Code:** WMWBARAP  
**Collected:** 4/3/23 11:23  
**Customer ID:**  
**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06612

| Name                                | Prepared     | Analyzed     | Vio Spec            | DF    | Results                             | Units | MDL      | RL         | Q |
|-------------------------------------|--------------|--------------|---------------------|-------|-------------------------------------|-------|----------|------------|---|
| <b>Analytical Method: EPA 200.7</b> |              |              | <b>Analyst: ABB</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Boron, Total                      | 4/6/23 06:51 | 4/6/23 12:09 |                     | 1.015 | Not Detected                        | mg/L  | 0.030000 | 0.1015     | U |
| * Calcium, Total                    | 4/6/23 06:51 | 4/6/23 12:09 |                     | 1.015 | 1.79                                | mg/L  | 0.070035 | 0.406      |   |
| * Iron, Total                       | 4/6/23 06:51 | 4/6/23 12:09 |                     | 1.015 | 0.250                               | mg/L  | 0.008120 | 0.0406     |   |
| * Lithium, Total                    | 4/6/23 06:51 | 4/6/23 12:09 |                     | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |
| * Magnesium, Total                  | 4/6/23 06:51 | 4/6/23 12:09 |                     | 1.015 | 1.16                                | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Total                 | 4/6/23 06:51 | 4/6/23 12:09 |                     | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Total (calc.)             | 4/6/23 06:51 | 4/6/23 12:09 |                     | 1     | 16.1                                | mg/L  |          |            |   |
| * Silicon, Total                    | 4/6/23 06:51 | 4/6/23 12:09 |                     | 1.015 | 7.54                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Total                     | 4/6/23 06:51 | 4/6/23 12:09 |                     | 1.015 | 4.15                                | mg/L  | 0.04060  | 0.406      |   |
| <b>Analytical Method: EPA 200.7</b> |              |              | <b>Analyst: ABB</b> |       |                                     |       |          |            |   |
| * Boron, Dissolved                  | 4/6/23 09:44 | 4/7/23 11:43 |                     | 1.015 | Not Detected                        | mg/L  | 0.030000 | 0.1015     | U |
| * Calcium, Dissolved                | 4/6/23 09:44 | 4/7/23 11:43 |                     | 1.015 | 1.77                                | mg/L  | 0.070035 | 0.406      |   |
| * Iron, Dissolved                   | 4/6/23 09:44 | 4/7/23 11:43 |                     | 1.015 | 0.234                               | mg/L  | 0.008120 | 0.0406     |   |
| * Lithium, Dissolved                | 4/6/23 09:44 | 4/7/23 11:43 |                     | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |
| * Magnesium, Dissolved              | 4/6/23 09:44 | 4/7/23 11:43 |                     | 1.015 | 1.17                                | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Dissolved             | 4/6/23 09:44 | 4/7/23 11:43 |                     | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Dissolved (calc.)         | 4/6/23 09:44 | 4/7/23 11:43 |                     | 1     | 16.3                                | mg/L  |          |            |   |
| * Silicon, Dissolved                | 4/6/23 09:44 | 4/7/23 11:43 |                     | 1.015 | 7.63                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Dissolved                 | 4/6/23 09:44 | 4/7/23 11:43 |                     | 1.015 | 4.28                                | mg/L  | 0.04060  | 0.406      |   |
| <b>Analytical Method: EPA 200.8</b> |              |              | <b>Analyst: DLJ</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Antimony, Total                   | 4/6/23 06:51 | 4/7/23 12:00 |                     | 1.015 | Not Detected                        | mg/L  | 0.000710 | 0.001015   | U |
| * Aluminum, Total                   | 4/6/23 06:51 | 4/7/23 12:00 |                     | 1.015 | 0.0187                              | mg/L  | 0.009135 | 0.05075    | J |
| * Arsenic, Total                    | 4/6/23 06:51 | 4/7/23 12:00 |                     | 1.015 | 0.00156                             | mg/L  | 0.000112 | 0.000203   |   |
| * Barium, Total                     | 4/6/23 06:51 | 4/7/23 12:00 |                     | 1.015 | 0.0180                              | mg/L  | 0.000508 | 0.001015   |   |
| * Beryllium, Total                  | 4/6/23 06:51 | 4/7/23 12:00 |                     | 1.015 | Not Detected                        | mg/L  | 0.000406 | 0.001015   | U |
| * Cadmium, Total                    | 4/6/23 06:51 | 4/7/23 12:00 |                     | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |
| * Chromium, Total                   | 4/6/23 06:51 | 4/7/23 12:00 |                     | 1.015 | 0.000877                            | mg/L  | 0.000203 | 0.001015   | J |
| * Cobalt, Total                     | 4/6/23 06:51 | 4/7/23 12:00 |                     | 1.015 | 0.00420                             | mg/L  | 0.000068 | 0.000203   |   |
| * Lead, Total                       | 4/6/23 06:51 | 4/7/23 12:00 |                     | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |
| * Manganese, Total                  | 4/6/23 06:51 | 4/7/23 12:00 |                     | 1.015 | 0.195                               | mg/L  | 0.000152 | 0.001015   |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-2

**Location Code:** WMWBARAP  
**Collected:** 4/3/23 11:23  
**Customer ID:**  
**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06612

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/6/23 06:51  | 4/7/23 12:00        |          | 1.015 | 0.829        | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/6/23 06:51  | 4/7/23 12:00        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/6/23 06:51  | 4/7/23 12:00        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:37        |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:37        |          | 1.015 | Not Detected | mg/L       | 0.009135 | 0.05075  | U |
| * Arsenic, Dissolved                   | 4/6/23 09:44  | 4/6/23 11:37        |          | 1.015 | 0.00151      | mg/L       | 0.000112 | 0.000203 |   |
| * Barium, Dissolved                    | 4/6/23 09:44  | 4/6/23 11:37        |          | 1.015 | 0.0193       | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/6/23 09:44  | 4/6/23 11:37        |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/6/23 09:44  | 4/6/23 11:37        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:37        |          | 1.015 | 0.000209     | mg/L       | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved                    | 4/6/23 09:44  | 4/6/23 11:37        |          | 1.015 | 0.00456      | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/6/23 09:44  | 4/6/23 11:37        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/6/23 09:44  | 4/6/23 11:37        |          | 1.015 | 0.200        | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/6/23 09:44  | 4/6/23 11:37        |          | 1.015 | 0.848        | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:37        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:37        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/11/23 18:35 | 4/11/23 23:04       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/6/23 09:07  | 4/6/23 09:07        |          | 1     | Not Detected | mg/L as N  | 0.20     | 0.3      | U |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/14/23 14:44 | 4/14/23 15:50       |          | 1     | 10.2         | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/6/23 10:55  | 4/7/23 12:30        |          | 1     | 40.7         | mg/L       |          | 25       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/14/23 14:44 | 4/14/23 15:50       |          | 1     | 10.2         | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 4/14/23 14:44 | 4/14/23 15:50       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/5/23 16:29  | 4/5/23 16:29        |          | 1     | Not Detected | mg/L       | 1.00     | 2        | U |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-2

**Location Code:** WMWBARAP

**Collected:** 4/3/23 11:23

**Customer ID:**

**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06612

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results      | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|--------------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: CES</b> |          |    |              |       |      |       |    |
| * Chloride                                   | 4/12/23 11:01 | 4/12/23 11:01       |          | 1  | 7.35         | mg/L  | 0.50 | 0.5   |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: CES</b> |          |    |              |       |      |       |    |
| * Fluoride                                   | 4/13/23 10:31 | 4/13/23 10:31       |          | 1  | Not Detected | mg/L  | 0.06 | 0.125 | U  |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |              |       |      |       |    |
| * Sulfate                                    | 4/6/23 10:10  | 4/6/23 10:10        |          | 1  | 1.77         | mg/L  | 0.6  | 2     | J  |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: TJD</b> |          |    |              |       |      |       |    |
| Conductivity                                 | 4/3/23 11:19  | 4/3/23 11:19        |          |    | 46.42        | uS/cm |      |       | FA |
| pH   | 4/3/23 11:19  | 4/3/23 11:19        |          |    | 4.88         | SU    |      |       | FA |
| Temperature                                  | 4/3/23 11:19  | 4/3/23 11:19        |          |    | 21.66        | C     |      |       | FA |
| Turbidity                                    | 4/3/23 11:19  | 4/3/23 11:19        |          |    | 1.38         | NTU   |      |       | FA |
| Sulfide                                      | 4/3/23 11:19  | 4/3/23 11:19        |          |    | 0            | mg/L  |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/3/23 11:23  
**Customer ID:**  
**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-2

**Laboratory ID Number:** BD06612

| Sample  | Analysis             | Units | MB         |          |       |        |        | Standard |                 | Rec  |             | Prec  | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
|         |                      |       | MB         | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec  | Limit       |       |       |
| BD06614 | Aluminum, Dissolved  | mg/L  | -0.000829  | 0.0198   | 0.100 | 0.101  | 0.103  | 0.103    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 1.96  | 20.0  |
| BD06613 | Aluminum, Total      | mg/L  | 0.000464   | 0.0198   | 0.100 | 0.104  | 0.106  | 0.103    | 0.0850 to 0.115 | 104  | 70.0 to 130 | 1.90  | 20.0  |
| BD06614 | Antimony, Dissolved  | mg/L  | 0.000282   | 0.00100  | 0.100 | 0.105  | 0.107  | 0.105    | 0.0850 to 0.115 | 105  | 70.0 to 130 | 1.89  | 20.0  |
| BD06613 | Antimony, Total      | mg/L  | 0.000260   | 0.00100  | 0.100 | 0.0945 | 0.0970 | 0.0922   | 0.0850 to 0.115 | 94.5 | 70.0 to 130 | 2.61  | 20.0  |
| BD06614 | Arsenic, Dissolved   | mg/L  | 0.000293   | 0.000200 | 0.100 | 0.110  | 0.112  | 0.108    | 0.0850 to 0.115 | 109  | 70.0 to 130 | 1.80  | 20.0  |
| BD06613 | Arsenic, Total       | mg/L  | 0.000185   | 0.000200 | 0.100 | 0.0996 | 0.0980 | 0.101    | 0.0850 to 0.115 | 99.2 | 70.0 to 130 | 1.62  | 20.0  |
| BD06614 | Barium, Dissolved    | mg/L  | 0.000004   | 0.00100  | 0.100 | 0.111  | 0.114  | 0.104    | 0.0850 to 0.115 | 103  | 70.0 to 130 | 2.67  | 20.0  |
| BD06613 | Barium, Total        | mg/L  | 0.0000235  | 0.00100  | 0.100 | 0.272  | 0.282  | 0.0935   | 0.0850 to 0.115 | 83.0 | 70.0 to 130 | 3.61  | 20.0  |
| BD06614 | Beryllium, Dissolved | mg/L  | 0.0000122  | 0.000880 | 0.100 | 0.0988 | 0.102  | 0.0962   | 0.0850 to 0.115 | 98.8 | 70.0 to 130 | 3.19  | 20.0  |
| BD06613 | Beryllium, Total     | mg/L  | 0.0000089  | 0.000880 | 0.100 | 0.0946 | 0.0943 | 0.0982   | 0.0850 to 0.115 | 94.6 | 70.0 to 130 | 0.318 | 20.0  |
| BD06614 | Boron, Dissolved     | mg/L  | 0.000167   | 0.0650   | 1.00  | 1.32   | 1.30   | 1.01     | 0.850 to 1.15   | 102  | 70.0 to 130 | 1.53  | 20.0  |
| BD06613 | Boron, Total         | mg/L  | -0.00119   | 0.0650   | 1.00  | 2.00   | 1.98   | 0.989    | 0.850 to 1.15   | 104  | 70.0 to 130 | 1.01  | 20.0  |
| BD06614 | Cadmium, Dissolved   | mg/L  | 0.0000050  | 0.000147 | 0.100 | 0.107  | 0.109  | 0.111    | 0.0850 to 0.115 | 107  | 70.0 to 130 | 1.85  | 20.0  |
| BD06613 | Cadmium, Total       | mg/L  | 0.0000000  | 0.000147 | 0.100 | 0.0986 | 0.0971 | 0.0971   | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 1.53  | 20.0  |
| BD06614 | Calcium, Dissolved   | mg/L  | -0.0141    | 0.152    | 5.00  | 5.35   | 5.12   | 4.92     | 4.25 to 5.75    | 96.0 | 70.0 to 130 | 4.39  | 20.0  |
| BD06613 | Calcium, Total       | mg/L  | 0.00187    | 0.152    | 5.00  | 63.1   | 64.0   | 4.92     | 4.25 to 5.75    | 78.0 | 70.0 to 130 | 1.42  | 20.0  |
| BD06612 | Chloride             | mg/L  | 0.0720     | 1.00     | 10.0  | 17.6   | 17.8   | 10.3     | 9.00 to 11.0    | 102  | 80.0 to 120 | 1.13  | 20.0  |
| BD06614 | Chromium, Dissolved  | mg/L  | -0.0000464 | 0.000440 | 0.100 | 0.106  | 0.110  | 0.111    | 0.0850 to 0.115 | 106  | 70.0 to 130 | 3.70  | 20.0  |
| BD06613 | Chromium, Total      | mg/L  | 0.0000577  | 0.000440 | 0.100 | 0.0980 | 0.0992 | 0.0984   | 0.0850 to 0.115 | 97.5 | 70.0 to 130 | 1.22  | 20.0  |
| BD06614 | Cobalt, Dissolved    | mg/L  | -0.0000057 | 0.000147 | 0.100 | 0.108  | 0.111  | 0.110    | 0.0850 to 0.115 | 108  | 70.0 to 130 | 2.74  | 20.0  |
| BD06613 | Cobalt, Total        | mg/L  | -0.0000008 | 0.000147 | 0.100 | 0.102  | 0.103  | 0.101    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 0.976 | 20.0  |
| BD06613 | Fluoride             | mg/L  | 0.0117     | 0.125    | 2.50  | 2.69   | 2.66   | 2.57     | 2.25 to 2.75    | 108  | 80.0 to 120 | 1.12  | 20.0  |
| BD06614 | Iron, Dissolved      | mg/L  | -0.000107  | 0.0176   | 0.2   | 0.757  | 0.755  | 0.202    | 0.170 to 0.230  | 97.5 | 70.0 to 130 | 0.265 | 20.0  |
| BD06613 | Iron, Total          | mg/L  | -0.000067  | 0.0176   | 0.2   | 100    | 100    | 0.194    | 0.170 to 0.230  | -500 | 70.0 to 130 | 0.00  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/3/23 11:23

**Customer ID:**

**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-2

**Laboratory ID Number:** BD06612

| Sample  | Analysis               | Units | MB        |          | Spike | MS      | MSD     | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB        | Limit    |       |         |         | Standard | Limit              | Rec  | Limit       |       |       |
| BD06614 | Lead, Dissolved        | mg/L  | 0.0000188 | 0.000147 | 0.100 | 0.0994  | 0.0993  | 0.101    | 0.0850 to 0.115    | 99.4 | 70.0 to 130 | 0.101 | 20.0  |
| BD06613 | Lead, Total            | mg/L  | 0.0000100 | 0.000147 | 0.100 | 0.0971  | 0.0966  | 0.0990   | 0.0850 to 0.115    | 97.1 | 70.0 to 130 | 0.516 | 20.0  |
| BD06614 | Lithium, Dissolved     | mg/L  | 0.000058  | 0.0154   | 0.200 | 0.207   | 0.204   | 0.197    | 0.170 to 0.230     | 104  | 70.0 to 130 | 1.46  | 20.0  |
| BD06613 | Lithium, Total         | mg/L  | 0.000883  | 0.0154   | 0.200 | 0.202   | 0.201   | 0.191    | 0.170 to 0.230     | 101  | 70.0 to 130 | 0.496 | 20.0  |
| BD06614 | Magnesium, Dissolved   | mg/L  | -0.00906  | 0.0462   | 5.00  | 5.15    | 4.89    | 4.92     | 4.25 to 5.75       | 98.5 | 70.0 to 130 | 5.18  | 20.0  |
| BD06613 | Magnesium, Total       | mg/L  | -0.00266  | 0.0462   | 5.00  | 16.8    | 16.7    | 4.86     | 4.25 to 5.75       | 96.0 | 70.0 to 130 | 0.597 | 20.0  |
| BD06614 | Manganese, Dissolved   | mg/L  | 0.0000223 | 0.00033  | 0.100 | 0.115   | 0.120   | 0.102    | 0.0850 to 0.115    | 98.9 | 70.0 to 130 | 4.26  | 20.0  |
| BD06613 | Manganese, Total       | mg/L  | 0.0000173 | 0.00033  | 0.100 | 0.894   | 0.904   | 0.101    | 0.0850 to 0.115    | 81.0 | 70.0 to 130 | 1.11  | 20.0  |
| BD06613 | Mercury, Total by CVAA | mg/L  | 3.000E-05 | 0.000500 | 0.004 | 0.00402 | 0.00407 | 0.00409  | 0.00340 to 0.00460 | 100  | 70.0 to 130 | 1.24  | 20.0  |
| BD06614 | Molybdenum, Dissolved  | mg/L  | 0.000012  | 0.0100   | 0.2   | 0.206   | 0.206   | 0.203    | 0.170 to 0.230     | 103  | 70.0 to 130 | 0.00  | 20.0  |
| BD06613 | Molybdenum, Total      | mg/L  | 0.000     | 0.0100   | 0.2   | 0.200   | 0.199   | 0.199    | 0.170 to 0.230     | 100  | 70.0 to 130 | 0.501 | 20.0  |
| BD06614 | Potassium, Dissolved   | mg/L  | 0.0134    | 0.367    | 10.0  | 11.0    | 11.2    | 10.4     | 8.50 to 11.5       | 99.1 | 70.0 to 130 | 1.80  | 20.0  |
| BD06613 | Potassium, Total       | mg/L  | 0.0131    | 0.367    | 10.0  | 12.3    | 12.3    | 10.0     | 8.50 to 11.5       | 99.9 | 70.0 to 130 | 0.00  | 20.0  |
| BD06614 | Selenium, Dissolved    | mg/L  | 0.0000543 | 0.00100  | 0.100 | 0.109   | 0.112   | 0.109    | 0.0850 to 0.115    | 109  | 70.0 to 130 | 2.71  | 20.0  |
| BD06613 | Selenium, Total        | mg/L  | 0.000122  | 0.00100  | 0.100 | 0.103   | 0.0993  | 0.103    | 0.0850 to 0.115    | 103  | 70.0 to 130 | 3.66  | 20.0  |
| BD06614 | Silicon, Dissolved     | mg/L  | 0.000048  | 0.0440   | 1.00  | 6.94    | 6.92    | 1.01     | 0.850 to 1.15      | 102  | 70.0 to 130 | 0.289 | 20.0  |
| BD06613 | Silicon, Total         | mg/L  | 0.00174   | 0.0440   | 1.00  | 14.7    | 14.7    | 0.987    | 0.850 to 1.15      | 90.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD06614 | Sodium, Dissolved      | mg/L  | -0.00120  | 0.0880   | 5.00  | 123     | 122     | 4.73     | 4.25 to 5.75       | -120 | 70.0 to 130 | 0.816 | 20.0  |
| BD06613 | Sodium, Total          | mg/L  | 0.00274   | 0.0880   | 5.00  | 31.5    | 31.4    | 4.66     | 4.25 to 5.75       | 94.0 | 70.0 to 130 | 0.318 | 20.0  |
| BD06613 | Sulfate                | mg/L  | 0.439     | 2.0      | 20.0  | 29.1    | 28.9    | 20.2     | 18.0 to 22.0       | 80.5 | 80.0 to 120 | 0.690 | 20.0  |
| BD06614 | Thallium, Dissolved    | mg/L  | 0.0000007 | 0.000147 | 0.100 | 0.103   | 0.0996  | 0.102    | 0.0850 to 0.115    | 103  | 70.0 to 130 | 3.36  | 20.0  |
| BD06613 | Thallium, Total        | mg/L  | 0.0000062 | 0.000147 | 0.100 | 0.100   | 0.0988  | 0.102    | 0.0850 to 0.115    | 100  | 70.0 to 130 | 1.21  | 20.0  |
| BD06613 | Total Organic Carbon   | mg/L  | 0.142     | 1.00     | 10.0  | 21.8    | 20.3    | 24.2     |                    | 106  | 80.0 to 120 | 7.13  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/3/23 11:23

**Customer ID:**

**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-2

**Laboratory ID Number:** BD06612

| Sample  | Analysis                  | Units      | MB     | MB Limit | Spike | MS   | Sample Duplicate | Standard | Standard Limit | Rec  | Rec Limit   | Prec  | Prec Limit |
|---------|---------------------------|------------|--------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BD06618 | Alkalinity to pH 4.5      | mg CaCO3/L |        |          |       |      | 25.3             | 50.5     | 45.0 to 55.0   |      |             | 0.794 | 10.0       |
| BD06613 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.02   | 0.200    | 2.00  | 1.74 | 0.240            | 2.00     | 1.80 to 2.20   | 75.0 | 90.0 to 110 | 0.418 | 15.0       |
| BD06620 | Solids, Dissolved         | mg/L       | 0.0000 | 25.0     |       |      | 612              | 50.0     | 40.0 to 60.0   |      |             | 0.651 | 10.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-10V

**Location Code:** WMWBARAP  
**Collected:** 4/3/23 15:16  
**Customer ID:**  
**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06613

| Name                                | Prepared     | Analyzed     | Vio Spec            | DF    | Results      | Units                               | MDL      | RL         | Q  |
|-------------------------------------|--------------|--------------|---------------------|-------|--------------|-------------------------------------|----------|------------|----|
| <b>Analytical Method: EPA 200.7</b> |              |              | <b>Analyst: ABB</b> |       |              | <b>Preparation Method: EPA 1638</b> |          |            |    |
| * Boron, Total                      | 4/6/23 06:51 | 4/6/23 12:12 |                     | 1.015 | 0.965        | mg/L                                | 0.030000 | 0.1015     |    |
| * Calcium, Total                    | 4/6/23 06:51 | 4/6/23 13:25 |                     | 101.5 | 59.2         | mg/L                                | 7.0035   | 40.6       |    |
| * Iron, Total                       | 4/6/23 06:51 | 4/6/23 13:25 |                     | 101.5 | 101          | mg/L                                | 0.8120   | 4.06       | RA |
| * Lithium, Total                    | 4/6/23 06:51 | 4/6/23 12:12 |                     | 1.015 | Not Detected | mg/L                                | 0.007105 | 0.01999956 | U  |
| * Magnesium, Total                  | 4/6/23 06:51 | 4/6/23 12:12 |                     | 1.015 | 12.0         | mg/L                                | 0.021315 | 0.406      |    |
| * Molybdenum, Total                 | 4/6/23 06:51 | 4/6/23 12:12 |                     | 1.015 | Not Detected | mg/L                                | 0.005075 | 0.01015    | U  |
| * Silica, Total (calc.)             | 4/6/23 06:51 | 4/6/23 12:12 |                     | 1     | 29.5         | mg/L                                |          |            |    |
| * Silicon, Total                    | 4/6/23 06:51 | 4/6/23 12:12 |                     | 1.015 | 13.8         | mg/L                                | 0.02030  | 0.25375    |    |
| * Sodium, Total                     | 4/6/23 06:51 | 4/6/23 12:12 |                     | 1.015 | 26.8         | mg/L                                | 0.04060  | 0.406      |    |
| <b>Analytical Method: EPA 200.7</b> |              |              | <b>Analyst: ABB</b> |       |              |                                     |          |            |    |
| * Boron, Dissolved                  | 4/6/23 09:44 | 4/7/23 11:46 |                     | 1.015 | 0.976        | mg/L                                | 0.030000 | 0.1015     |    |
| * Calcium, Dissolved                | 4/6/23 09:44 | 4/7/23 12:52 |                     | 101.5 | 60.0         | mg/L                                | 7.0035   | 40.6       |    |
| * Iron, Dissolved                   | 4/6/23 09:44 | 4/7/23 12:52 |                     | 101.5 | 105          | mg/L                                | 0.8120   | 4.06       |    |
| * Lithium, Dissolved                | 4/6/23 09:44 | 4/7/23 11:46 |                     | 1.015 | Not Detected | mg/L                                | 0.007105 | 0.01999956 | U  |
| * Magnesium, Dissolved              | 4/6/23 09:44 | 4/7/23 11:46 |                     | 1.015 | 12.2         | mg/L                                | 0.021315 | 0.406      |    |
| * Molybdenum, Dissolved             | 4/6/23 09:44 | 4/7/23 11:46 |                     | 1.015 | Not Detected | mg/L                                | 0.005075 | 0.01015    | U  |
| * Silica, Dissolved (calc.)         | 4/6/23 09:44 | 4/7/23 11:46 |                     | 1     | 29.7         | mg/L                                |          |            |    |
| * Silicon, Dissolved                | 4/6/23 09:44 | 4/7/23 11:46 |                     | 1.015 | 13.9         | mg/L                                | 0.02030  | 0.25375    |    |
| * Sodium, Dissolved                 | 4/6/23 09:44 | 4/7/23 11:46 |                     | 1.015 | 27.6         | mg/L                                | 0.04060  | 0.406      |    |
| <b>Analytical Method: EPA 200.8</b> |              |              | <b>Analyst: DLJ</b> |       |              | <b>Preparation Method: EPA 1638</b> |          |            |    |
| * Antimony, Total                   | 4/6/23 06:51 | 4/7/23 12:04 |                     | 1.015 | Not Detected | mg/L                                | 0.000710 | 0.001015   | U  |
| * Aluminum, Total                   | 4/6/23 06:51 | 4/7/23 12:04 |                     | 1.015 | Not Detected | mg/L                                | 0.009135 | 0.05075    | U  |
| * Arsenic, Total                    | 4/6/23 06:51 | 4/7/23 12:04 |                     | 1.015 | 0.000359     | mg/L                                | 0.000112 | 0.000203   |    |
| * Barium, Total                     | 4/6/23 06:51 | 4/7/23 12:04 |                     | 1.015 | 0.189        | mg/L                                | 0.000508 | 0.001015   |    |
| * Beryllium, Total                  | 4/6/23 06:51 | 4/7/23 12:04 |                     | 1.015 | Not Detected | mg/L                                | 0.000406 | 0.001015   | U  |
| * Cadmium, Total                    | 4/6/23 06:51 | 4/7/23 12:04 |                     | 1.015 | Not Detected | mg/L                                | 0.000068 | 0.000203   | U  |
| * Chromium, Total                   | 4/6/23 06:51 | 4/7/23 12:04 |                     | 1.015 | 0.000508     | mg/L                                | 0.000203 | 0.001015   | J  |
| * Cobalt, Total                     | 4/6/23 06:51 | 4/7/23 12:04 |                     | 1.015 | 0.000623     | mg/L                                | 0.000068 | 0.000203   |    |
| * Lead, Total                       | 4/6/23 06:51 | 4/7/23 12:04 |                     | 1.015 | Not Detected | mg/L                                | 0.000068 | 0.000203   | U  |
| * Manganese, Total                  | 4/6/23 06:51 | 4/7/23 12:04 |                     | 1.015 | 0.813        | mg/L                                | 0.000152 | 0.001015   |    |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Nitrate-Nitrite matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-10V

**Location Code:** WMWBARAP

**Collected:** 4/3/23 15:16

**Customer ID:**

**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06613

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/6/23 06:51  | 4/7/23 12:04        |          | 1.015 | 2.31         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/6/23 06:51  | 4/7/23 12:04        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/6/23 06:51  | 4/7/23 12:04        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:40        |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:40        |          | 1.015 | Not Detected | mg/L       | 0.009135 | 0.05075  | U |
| * Arsenic, Dissolved                   | 4/6/23 09:44  | 4/6/23 11:40        |          | 1.015 | 0.000313     | mg/L       | 0.000112 | 0.000203 |   |
| * Barium, Dissolved                    | 4/6/23 09:44  | 4/6/23 11:40        |          | 1.015 | 0.201        | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/6/23 09:44  | 4/6/23 11:40        |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/6/23 09:44  | 4/6/23 11:40        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:40        |          | 1.015 | 0.000522     | mg/L       | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved                    | 4/6/23 09:44  | 4/6/23 11:40        |          | 1.015 | 0.000597     | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/6/23 09:44  | 4/6/23 11:40        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/6/23 09:44  | 4/6/23 11:40        |          | 1.015 | 0.815        | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/6/23 09:44  | 4/6/23 11:40        |          | 1.015 | 2.35         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:40        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:40        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/11/23 18:35 | 4/11/23 23:08       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/6/23 09:09  | 4/6/23 09:09        |          | 1     | 0.239        | mg/L as N  | 0.20     | 0.3      | J |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/17/23 10:54 | 4/17/23 12:30       |          | 1     | 271          | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/6/23 10:55  | 4/7/23 12:30        |          | 1     | 442          | mg/L       |          | 25       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/17/23 10:54 | 4/17/23 12:30       |          | 1     | 271          | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 4/17/23 10:54 | 4/17/23 12:30       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/5/23 16:43  | 4/5/23 16:43        |          | 1     | 11.2         | mg/L       | 1.00     | 2        |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Nitrate-Nitrite matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-10V

**Location Code:** WMWBARAP  
**Collected:** 4/3/23 15:16  
**Customer ID:**  
**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06613

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results      | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|--------------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: CES</b> |          |    |              |       |      |       |    |
| * Chloride                                   | 4/12/23 11:37 | 4/12/23 11:37       |          | 4  | 26.1         | mg/L  | 2.00 | 2     |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: CES</b> |          |    |              |       |      |       |    |
| * Fluoride                                   | 4/13/23 10:33 | 4/13/23 10:33       |          | 1  | Not Detected | mg/L  | 0.06 | 0.125 | U  |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |              |       |      |       |    |
| * Sulfate                                    | 4/6/23 10:11  | 4/6/23 10:11        |          | 1  | 13.0         | mg/L  | 0.6  | 2     | R  |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: TJD</b> |          |    |              |       |      |       |    |
| Conductivity                                 | 4/3/23 15:14  | 4/3/23 15:14        |          |    | 787.79       | uS/cm |      |       | FA |
| pH   | 4/3/23 15:14  | 4/3/23 15:14        |          |    | 6.38         | SU    |      |       | FA |
| Temperature                                  | 4/3/23 15:14  | 4/3/23 15:14        |          |    | 21.47        | C     |      |       | FA |
| Turbidity                                    | 4/3/23 15:14  | 4/3/23 15:14        |          |    | 0.95         | NTU   |      |       | FA |
| Sulfide                                      | 4/3/23 15:14  | 4/3/23 15:14        |          |    | 0            | mg/L  |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Nitrate-Nitrite matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/3/23 15:16  
**Customer ID:**  
**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-10V

**Laboratory ID Number:** BD06613

| Sample  | Analysis             | Units | MB         |          |       |        |        | Standard |                 | Rec  |             |       | Prec Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|------------|
|         |                      |       | MB         | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec  | Limit       | Prec  |            |
| BD06614 | Aluminum, Dissolved  | mg/L  | -0.000829  | 0.0198   | 0.100 | 0.101  | 0.103  | 0.103    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 1.96  | 20.0       |
| BD06613 | Aluminum, Total      | mg/L  | 0.000464   | 0.0198   | 0.100 | 0.104  | 0.106  | 0.103    | 0.0850 to 0.115 | 104  | 70.0 to 130 | 1.90  | 20.0       |
| BD06614 | Antimony, Dissolved  | mg/L  | 0.000282   | 0.00100  | 0.100 | 0.105  | 0.107  | 0.105    | 0.0850 to 0.115 | 105  | 70.0 to 130 | 1.89  | 20.0       |
| BD06613 | Antimony, Total      | mg/L  | 0.000260   | 0.00100  | 0.100 | 0.0945 | 0.0970 | 0.0922   | 0.0850 to 0.115 | 94.5 | 70.0 to 130 | 2.61  | 20.0       |
| BD06614 | Arsenic, Dissolved   | mg/L  | 0.000293   | 0.000200 | 0.100 | 0.110  | 0.112  | 0.108    | 0.0850 to 0.115 | 109  | 70.0 to 130 | 1.80  | 20.0       |
| BD06613 | Arsenic, Total       | mg/L  | 0.000185   | 0.000200 | 0.100 | 0.0996 | 0.0980 | 0.101    | 0.0850 to 0.115 | 99.2 | 70.0 to 130 | 1.62  | 20.0       |
| BD06614 | Barium, Dissolved    | mg/L  | 0.0000004  | 0.00100  | 0.100 | 0.111  | 0.114  | 0.104    | 0.0850 to 0.115 | 103  | 70.0 to 130 | 2.67  | 20.0       |
| BD06613 | Barium, Total        | mg/L  | 0.0000235  | 0.00100  | 0.100 | 0.272  | 0.282  | 0.0935   | 0.0850 to 0.115 | 83.0 | 70.0 to 130 | 3.61  | 20.0       |
| BD06614 | Beryllium, Dissolved | mg/L  | 0.0000122  | 0.000880 | 0.100 | 0.0988 | 0.102  | 0.0962   | 0.0850 to 0.115 | 98.8 | 70.0 to 130 | 3.19  | 20.0       |
| BD06613 | Beryllium, Total     | mg/L  | 0.0000089  | 0.000880 | 0.100 | 0.0946 | 0.0943 | 0.0982   | 0.0850 to 0.115 | 94.6 | 70.0 to 130 | 0.318 | 20.0       |
| BD06614 | Boron, Dissolved     | mg/L  | 0.000167   | 0.0650   | 1.00  | 1.32   | 1.30   | 1.01     | 0.850 to 1.15   | 102  | 70.0 to 130 | 1.53  | 20.0       |
| BD06613 | Boron, Total         | mg/L  | -0.00119   | 0.0650   | 1.00  | 2.00   | 1.98   | 0.989    | 0.850 to 1.15   | 104  | 70.0 to 130 | 1.01  | 20.0       |
| BD06614 | Cadmium, Dissolved   | mg/L  | 0.0000050  | 0.000147 | 0.100 | 0.107  | 0.109  | 0.111    | 0.0850 to 0.115 | 107  | 70.0 to 130 | 1.85  | 20.0       |
| BD06613 | Cadmium, Total       | mg/L  | 0.0000000  | 0.000147 | 0.100 | 0.0986 | 0.0971 | 0.0971   | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 1.53  | 20.0       |
| BD06614 | Calcium, Dissolved   | mg/L  | -0.0141    | 0.152    | 5.00  | 5.35   | 5.12   | 4.92     | 4.25 to 5.75    | 96.0 | 70.0 to 130 | 4.39  | 20.0       |
| BD06613 | Calcium, Total       | mg/L  | 0.00187    | 0.152    | 5.00  | 63.1   | 64.0   | 4.92     | 4.25 to 5.75    | 78.0 | 70.0 to 130 | 1.42  | 20.0       |
| BD06622 | Chloride             | mg/L  | 0.0211     | 1.00     | 10.0  | 26.7   | 26.9   | 10.3     | 9.00 to 11.0    | 87.0 | 80.0 to 120 | 0.746 | 20.0       |
| BD06614 | Chromium, Dissolved  | mg/L  | -0.0000464 | 0.000440 | 0.100 | 0.106  | 0.110  | 0.111    | 0.0850 to 0.115 | 106  | 70.0 to 130 | 3.70  | 20.0       |
| BD06613 | Chromium, Total      | mg/L  | 0.0000577  | 0.000440 | 0.100 | 0.0980 | 0.0992 | 0.0984   | 0.0850 to 0.115 | 97.5 | 70.0 to 130 | 1.22  | 20.0       |
| BD06614 | Cobalt, Dissolved    | mg/L  | -0.0000057 | 0.000147 | 0.100 | 0.108  | 0.111  | 0.110    | 0.0850 to 0.115 | 108  | 70.0 to 130 | 2.74  | 20.0       |
| BD06613 | Cobalt, Total        | mg/L  | -0.0000008 | 0.000147 | 0.100 | 0.102  | 0.103  | 0.101    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 0.976 | 20.0       |
| BD06613 | Fluoride             | mg/L  | 0.0117     | 0.125    | 2.50  | 2.69   | 2.66   | 2.57     | 2.25 to 2.75    | 108  | 80.0 to 120 | 1.12  | 20.0       |
| BD06614 | Iron, Dissolved      | mg/L  | -0.000107  | 0.0176   | 0.2   | 0.757  | 0.755  | 0.202    | 0.170 to 0.230  | 97.5 | 70.0 to 130 | 0.265 | 20.0       |
| BD06613 | Iron, Total          | mg/L  | -0.000067  | 0.0176   | 0.2   | 100    | 100    | 0.194    | 0.170 to 0.230  | -500 | 70.0 to 130 | 0.00  | 20.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Nitrate-Nitrite matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.

# Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/3/23 15:16

**Customer ID:**

**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-10V

**Laboratory ID Number:** BD06613

| Sample  | Analysis               | Units | MB        |          | Spike | MS      | MSD     | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB        | Limit    |       |         |         | Standard | Limit              | Rec  | Limit       |       |       |
| BD06614 | Lead, Dissolved        | mg/L  | 0.0000188 | 0.000147 | 0.100 | 0.0994  | 0.0993  | 0.101    | 0.0850 to 0.115    | 99.4 | 70.0 to 130 | 0.101 | 20.0  |
| BD06613 | Lead, Total            | mg/L  | 0.0000100 | 0.000147 | 0.100 | 0.0971  | 0.0966  | 0.0990   | 0.0850 to 0.115    | 97.1 | 70.0 to 130 | 0.516 | 20.0  |
| BD06614 | Lithium, Dissolved     | mg/L  | 0.000058  | 0.0154   | 0.200 | 0.207   | 0.204   | 0.197    | 0.170 to 0.230     | 104  | 70.0 to 130 | 1.46  | 20.0  |
| BD06613 | Lithium, Total         | mg/L  | 0.000883  | 0.0154   | 0.200 | 0.202   | 0.201   | 0.191    | 0.170 to 0.230     | 101  | 70.0 to 130 | 0.496 | 20.0  |
| BD06614 | Magnesium, Dissolved   | mg/L  | -0.00906  | 0.0462   | 5.00  | 5.15    | 4.89    | 4.92     | 4.25 to 5.75       | 98.5 | 70.0 to 130 | 5.18  | 20.0  |
| BD06613 | Magnesium, Total       | mg/L  | -0.00266  | 0.0462   | 5.00  | 16.8    | 16.7    | 4.86     | 4.25 to 5.75       | 96.0 | 70.0 to 130 | 0.597 | 20.0  |
| BD06614 | Manganese, Dissolved   | mg/L  | 0.0000223 | 0.00033  | 0.100 | 0.115   | 0.120   | 0.102    | 0.0850 to 0.115    | 98.9 | 70.0 to 130 | 4.26  | 20.0  |
| BD06613 | Manganese, Total       | mg/L  | 0.0000173 | 0.00033  | 0.100 | 0.894   | 0.904   | 0.101    | 0.0850 to 0.115    | 81.0 | 70.0 to 130 | 1.11  | 20.0  |
| BD06613 | Mercury, Total by CVAA | mg/L  | 3.000E-05 | 0.000500 | 0.004 | 0.00402 | 0.00407 | 0.00409  | 0.00340 to 0.00460 | 100  | 70.0 to 130 | 1.24  | 20.0  |
| BD06614 | Molybdenum, Dissolved  | mg/L  | 0.000012  | 0.0100   | 0.2   | 0.206   | 0.206   | 0.203    | 0.170 to 0.230     | 103  | 70.0 to 130 | 0.00  | 20.0  |
| BD06613 | Molybdenum, Total      | mg/L  | 0.000     | 0.0100   | 0.2   | 0.200   | 0.199   | 0.199    | 0.170 to 0.230     | 100  | 70.0 to 130 | 0.501 | 20.0  |
| BD06614 | Potassium, Dissolved   | mg/L  | 0.0134    | 0.367    | 10.0  | 11.0    | 11.2    | 10.4     | 8.50 to 11.5       | 99.1 | 70.0 to 130 | 1.80  | 20.0  |
| BD06613 | Potassium, Total       | mg/L  | 0.0131    | 0.367    | 10.0  | 12.3    | 12.3    | 10.0     | 8.50 to 11.5       | 99.9 | 70.0 to 130 | 0.00  | 20.0  |
| BD06614 | Selenium, Dissolved    | mg/L  | 0.0000543 | 0.00100  | 0.100 | 0.109   | 0.112   | 0.109    | 0.0850 to 0.115    | 109  | 70.0 to 130 | 2.71  | 20.0  |
| BD06613 | Selenium, Total        | mg/L  | 0.000122  | 0.00100  | 0.100 | 0.103   | 0.0993  | 0.103    | 0.0850 to 0.115    | 103  | 70.0 to 130 | 3.66  | 20.0  |
| BD06614 | Silicon, Dissolved     | mg/L  | 0.000048  | 0.0440   | 1.00  | 6.94    | 6.92    | 1.01     | 0.850 to 1.15      | 102  | 70.0 to 130 | 0.289 | 20.0  |
| BD06613 | Silicon, Total         | mg/L  | 0.00174   | 0.0440   | 1.00  | 14.7    | 14.7    | 0.987    | 0.850 to 1.15      | 90.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD06614 | Sodium, Dissolved      | mg/L  | -0.00120  | 0.0880   | 5.00  | 123     | 122     | 4.73     | 4.25 to 5.75       | -120 | 70.0 to 130 | 0.816 | 20.0  |
| BD06613 | Sodium, Total          | mg/L  | 0.00274   | 0.0880   | 5.00  | 31.5    | 31.4    | 4.66     | 4.25 to 5.75       | 94.0 | 70.0 to 130 | 0.318 | 20.0  |
| BD06613 | Sulfate                | mg/L  | 0.439     | 2.0      | 20.0  | 29.1    | 28.9    | 20.2     | 18.0 to 22.0       | 80.5 | 80.0 to 120 | 0.690 | 20.0  |
| BD06614 | Thallium, Dissolved    | mg/L  | 0.0000007 | 0.000147 | 0.100 | 0.103   | 0.0996  | 0.102    | 0.0850 to 0.115    | 103  | 70.0 to 130 | 3.36  | 20.0  |
| BD06613 | Thallium, Total        | mg/L  | 0.0000062 | 0.000147 | 0.100 | 0.100   | 0.0988  | 0.102    | 0.0850 to 0.115    | 100  | 70.0 to 130 | 1.21  | 20.0  |
| BD06613 | Total Organic Carbon   | mg/L  | 0.142     | 1.00     | 10.0  | 21.8    | 20.3    | 24.2     |                    | 106  | 80.0 to 120 | 7.13  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Nitrate-Nitrite matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.

## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/3/23 15:16

**Customer ID:**

**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-10V

**Laboratory ID Number:** BD06613

| Sample  | Analysis                  | Units      | MB     | MB Limit | Spike | MS   | Sample Duplicate | Standard | Standard Limit | Rec  | Rec Limit   | Prec  | Prec Limit |
|---------|---------------------------|------------|--------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BD06780 | Alkalinity to pH 4.5      | mg CaCO3/L |        |          |       |      | 147              | 50.5     | 45.0 to 55.0   |      |             | 0.678 | 10.0       |
| BD06613 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.02   | 0.200    | 2.00  | 1.74 | 0.240            | 2.00     | 1.80 to 2.20   | 75.0 | 90.0 to 110 | 0.418 | 15.0       |
| BD06620 | Solids, Dissolved         | mg/L       | 0.0000 | 25.0     |       |      | 612              | 50.0     | 40.0 to 60.0   |      |             | 0.651 | 10.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Nitrate-Nitrite matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.



# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-7V

**Location Code:** WMWBARAP  
**Collected:** 4/3/23 16:40  
**Customer ID:**  
**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06614

| Name                                | Prepared     | Analyzed     | Vio Spec            | DF    | Results      | Units                               | MDL      | RL         | Q  |
|-------------------------------------|--------------|--------------|---------------------|-------|--------------|-------------------------------------|----------|------------|----|
| <b>Analytical Method: EPA 200.7</b> |              |              | <b>Analyst: ABB</b> |       |              | <b>Preparation Method: EPA 1638</b> |          |            |    |
| * Boron, Total                      | 4/6/23 06:51 | 4/6/23 12:28 |                     | 1.015 | 0.293        | mg/L                                | 0.030000 | 0.1015     |    |
| * Calcium, Total                    | 4/6/23 06:51 | 4/6/23 12:28 |                     | 1.015 | 1.43         | mg/L                                | 0.070035 | 0.406      |    |
| * Iron, Total                       | 4/6/23 06:51 | 4/6/23 12:28 |                     | 1.015 | 1.18         | mg/L                                | 0.008120 | 0.0406     |    |
| * Lithium, Total                    | 4/6/23 06:51 | 4/6/23 12:28 |                     | 1.015 | Not Detected | mg/L                                | 0.007105 | 0.01999956 | U  |
| * Magnesium, Total                  | 4/6/23 06:51 | 4/6/23 12:28 |                     | 1.015 | 0.282        | mg/L                                | 0.021315 | 0.406      | J  |
| * Molybdenum, Total                 | 4/6/23 06:51 | 4/6/23 12:28 |                     | 1.015 | Not Detected | mg/L                                | 0.005075 | 0.01015    | U  |
| * Silica, Total (calc.)             | 4/6/23 06:51 | 4/6/23 12:28 |                     | 1     | 12.8         | mg/L                                |          |            |    |
| * Silicon, Total                    | 4/6/23 06:51 | 4/6/23 12:28 |                     | 1.015 | 6.00         | mg/L                                | 0.02030  | 0.25375    |    |
| * Sodium, Total                     | 4/6/23 06:51 | 4/6/23 13:35 |                     | 10.15 | 120          | mg/L                                | 0.4060   | 4.06       |    |
| <b>Analytical Method: EPA 200.7</b> |              |              | <b>Analyst: ABB</b> |       |              |                                     |          |            |    |
| * Boron, Dissolved                  | 4/6/23 09:44 | 4/7/23 11:49 |                     | 1.015 | 0.297        | mg/L                                | 0.030000 | 0.1015     |    |
| * Calcium, Dissolved                | 4/6/23 09:44 | 4/7/23 11:49 |                     | 1.015 | 0.549        | mg/L                                | 0.070035 | 0.406      |    |
| * Iron, Dissolved                   | 4/6/23 09:44 | 4/7/23 11:49 |                     | 1.015 | 0.562        | mg/L                                | 0.008120 | 0.0406     |    |
| * Lithium, Dissolved                | 4/6/23 09:44 | 4/7/23 11:49 |                     | 1.015 | Not Detected | mg/L                                | 0.007105 | 0.01999956 | U  |
| * Magnesium, Dissolved              | 4/6/23 09:44 | 4/7/23 11:49 |                     | 1.015 | 0.227        | mg/L                                | 0.021315 | 0.406      | J  |
| * Molybdenum, Dissolved             | 4/6/23 09:44 | 4/7/23 11:49 |                     | 1.015 | Not Detected | mg/L                                | 0.005075 | 0.01015    | U  |
| * Silica, Dissolved (calc.)         | 4/6/23 09:44 | 4/7/23 11:49 |                     | 1     | 12.7         | mg/L                                |          |            |    |
| * Silicon, Dissolved                | 4/6/23 09:44 | 4/7/23 11:49 |                     | 1.015 | 5.92         | mg/L                                | 0.02030  | 0.25375    |    |
| * Sodium, Dissolved                 | 4/6/23 09:44 | 4/7/23 12:55 |                     | 10.15 | 129          | mg/L                                | 0.4060   | 4.06       | RA |
| <b>Analytical Method: EPA 200.8</b> |              |              | <b>Analyst: DLJ</b> |       |              | <b>Preparation Method: EPA 1638</b> |          |            |    |
| * Antimony, Total                   | 4/6/23 06:51 | 4/7/23 12:25 |                     | 1.015 | Not Detected | mg/L                                | 0.000710 | 0.001015   | U  |
| * Aluminum, Total                   | 4/6/23 06:51 | 4/7/23 12:25 |                     | 1.015 | 0.0394       | mg/L                                | 0.009135 | 0.05075    | J  |
| * Arsenic, Total                    | 4/6/23 06:51 | 4/7/23 12:25 |                     | 1.015 | 0.00117      | mg/L                                | 0.000112 | 0.000203   |    |
| * Barium, Total                     | 4/6/23 06:51 | 4/7/23 12:25 |                     | 1.015 | 0.0100       | mg/L                                | 0.000508 | 0.001015   |    |
| * Beryllium, Total                  | 4/6/23 06:51 | 4/7/23 12:25 |                     | 1.015 | Not Detected | mg/L                                | 0.000406 | 0.001015   | U  |
| * Cadmium, Total                    | 4/6/23 06:51 | 4/7/23 12:25 |                     | 1.015 | Not Detected | mg/L                                | 0.000068 | 0.000203   | U  |
| * Chromium, Total                   | 4/6/23 06:51 | 4/7/23 12:25 |                     | 1.015 | 0.000590     | mg/L                                | 0.000203 | 0.001015   | J  |
| * Cobalt, Total                     | 4/6/23 06:51 | 4/7/23 12:25 |                     | 1.015 | 0.000148     | mg/L                                | 0.000068 | 0.000203   | J  |
| * Lead, Total                       | 4/6/23 06:51 | 4/7/23 12:25 |                     | 1.015 | 0.000161     | mg/L                                | 0.000068 | 0.000203   | J  |
| * Manganese, Total                  | 4/6/23 06:51 | 4/7/23 12:25 |                     | 1.015 | 0.0191       | mg/L                                | 0.000152 | 0.001015   |    |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-7V

**Location Code:** WMWBARAP  
**Collected:** 4/3/23 16:40  
**Customer ID:**  
**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06614

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/6/23 06:51  | 4/7/23 12:25        |          | 1.015 | 1.02         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/6/23 06:51  | 4/7/23 12:25        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/6/23 06:51  | 4/7/23 12:25        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:44        |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:44        |          | 1.015 | Not Detected | mg/L       | 0.009135 | 0.05075  | U |
| * Arsenic, Dissolved                   | 4/6/23 09:44  | 4/6/23 11:44        |          | 1.015 | 0.00104      | mg/L       | 0.000112 | 0.000203 |   |
| * Barium, Dissolved                    | 4/6/23 09:44  | 4/6/23 11:44        |          | 1.015 | 0.00816      | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/6/23 09:44  | 4/6/23 11:44        |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/6/23 09:44  | 4/6/23 11:44        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:44        |          | 1.015 | 0.000210     | mg/L       | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved                    | 4/6/23 09:44  | 4/6/23 11:44        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Lead, Dissolved                      | 4/6/23 09:44  | 4/6/23 11:44        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/6/23 09:44  | 4/6/23 11:44        |          | 1.015 | 0.0161       | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/6/23 09:44  | 4/6/23 11:44        |          | 1.015 | 1.09         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:44        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/6/23 09:44  | 4/6/23 11:44        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/11/23 18:35 | 4/11/23 23:28       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/6/23 09:18  | 4/6/23 09:18        |          | 1     | Not Detected | mg/L as N  | 0.20     | 0.3      | U |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/17/23 10:54 | 4/17/23 12:30       |          | 1     | 155          | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/6/23 10:55  | 4/7/23 12:30        |          | 1     | 311          | mg/L       |          | 25       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/17/23 10:54 | 4/17/23 12:30       |          | 1     | 152          | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 4/17/23 10:54 | 4/17/23 12:30       |          | 1     | 3.12         | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/5/23 17:57  | 4/5/23 17:57        |          | 1     | 1.25         | mg/L       | 1.00     | 2        | J |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-7V

**Location Code:** WMWBARAP

**Collected:** 4/3/23 16:40

**Customer ID:**

**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06614

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Chloride                                   | 4/12/23 11:38 | 4/12/23 11:38       |          | 5  | 85.8    | mg/L  | 2.50 | 2.5   |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Fluoride                                   | 4/13/23 10:49 | 4/13/23 10:49       |          | 1  | 0.418   | mg/L  | 0.06 | 0.125 |    |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |         |       |      |       |    |
| * Sulfate                                    | 4/6/23 10:42  | 4/6/23 10:42        |          | 1  | 5.29    | mg/L  | 0.6  | 2     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: TJD</b> |          |    |         |       |      |       |    |
| Conductivity                                 | 4/3/23 16:38  | 4/3/23 16:38        |          |    | 561.78  | uS/cm |      |       | FA |
| pH   | 4/3/23 16:38  | 4/3/23 16:38        |          |    | 7.67    | SU    |      |       | FA |
| Temperature                                  | 4/3/23 16:38  | 4/3/23 16:38        |          |    | 21.47   | C     |      |       | FA |
| Turbidity                                    | 4/3/23 16:38  | 4/3/23 16:38        |          |    | 1.94    | NTU   |      |       | FA |
| Sulfide                                      | 4/3/23 16:38  | 4/3/23 16:38        |          |    | 0       | mg/L  |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/3/23 16:40  
**Customer ID:**  
**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-7V

**Laboratory ID Number:** BD06614

| Sample  | Analysis             | Units | MB         | MB       |       |        |        | Standard |                 | Rec  |             | Prec  | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
|         |                      |       |            | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec  | Limit       |       |       |
| BD06614 | Aluminum, Dissolved  | mg/L  | -0.000829  | 0.0198   | 0.100 | 0.101  | 0.103  | 0.103    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 1.96  | 20.0  |
| BD06623 | Aluminum, Total      | mg/L  | 0.000464   | 0.0198   | 0.100 | 0.102  | 0.0992 | 0.103    | 0.0850 to 0.115 | 102  | 70.0 to 130 | 2.78  | 20.0  |
| BD06614 | Antimony, Dissolved  | mg/L  | 0.000282   | 0.00100  | 0.100 | 0.105  | 0.107  | 0.105    | 0.0850 to 0.115 | 105  | 70.0 to 130 | 1.89  | 20.0  |
| BD06623 | Antimony, Total      | mg/L  | 0.000260   | 0.00100  | 0.100 | 0.0952 | 0.0937 | 0.0922   | 0.0850 to 0.115 | 95.2 | 70.0 to 130 | 1.59  | 20.0  |
| BD06614 | Arsenic, Dissolved   | mg/L  | 0.000293   | 0.000200 | 0.100 | 0.110  | 0.112  | 0.108    | 0.0850 to 0.115 | 109  | 70.0 to 130 | 1.80  | 20.0  |
| BD06623 | Arsenic, Total       | mg/L  | 0.000185   | 0.000200 | 0.100 | 0.0990 | 0.0984 | 0.101    | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 0.608 | 20.0  |
| BD06614 | Barium, Dissolved    | mg/L  | 0.0000004  | 0.00100  | 0.100 | 0.111  | 0.114  | 0.104    | 0.0850 to 0.115 | 103  | 70.0 to 130 | 2.67  | 20.0  |
| BD06623 | Barium, Total        | mg/L  | 0.0000235  | 0.00100  | 0.100 | 0.0962 | 0.0934 | 0.0935   | 0.0850 to 0.115 | 96.2 | 70.0 to 130 | 2.95  | 20.0  |
| BD06614 | Beryllium, Dissolved | mg/L  | 0.0000122  | 0.000880 | 0.100 | 0.0988 | 0.102  | 0.0962   | 0.0850 to 0.115 | 98.8 | 70.0 to 130 | 3.19  | 20.0  |
| BD06623 | Beryllium, Total     | mg/L  | 0.0000089  | 0.000880 | 0.100 | 0.0937 | 0.0937 | 0.0982   | 0.0850 to 0.115 | 93.7 | 70.0 to 130 | 0.00  | 20.0  |
| BD06614 | Boron, Dissolved     | mg/L  | 0.000167   | 0.0650   | 1.00  | 1.32   | 1.30   | 1.01     | 0.850 to 1.15   | 102  | 70.0 to 130 | 1.53  | 20.0  |
| BD06623 | Boron, Total         | mg/L  | -0.00119   | 0.0650   | 1.00  | 0.992  | 0.982  | 0.989    | 0.850 to 1.15   | 99.2 | 70.0 to 130 | 1.01  | 20.0  |
| BD06614 | Cadmium, Dissolved   | mg/L  | 0.0000050  | 0.000147 | 0.100 | 0.107  | 0.109  | 0.111    | 0.0850 to 0.115 | 107  | 70.0 to 130 | 1.85  | 20.0  |
| BD06623 | Cadmium, Total       | mg/L  | 0.0000000  | 0.000147 | 0.100 | 0.0989 | 0.0992 | 0.0971   | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 0.303 | 20.0  |
| BD06614 | Calcium, Dissolved   | mg/L  | -0.0141    | 0.152    | 5.00  | 5.35   | 5.12   | 4.92     | 4.25 to 5.75    | 96.0 | 70.0 to 130 | 4.39  | 20.0  |
| BD06623 | Calcium, Total       | mg/L  | 0.00187    | 0.152    | 5.00  | 4.77   | 4.82   | 4.92     | 4.25 to 5.75    | 95.4 | 70.0 to 130 | 1.04  | 20.0  |
| BD06622 | Chloride             | mg/L  | 0.0211     | 1.00     | 10.0  | 26.7   | 26.9   | 10.3     | 9.00 to 11.0    | 87.0 | 80.0 to 120 | 0.746 | 20.0  |
| BD06614 | Chromium, Dissolved  | mg/L  | -0.0000464 | 0.000440 | 0.100 | 0.106  | 0.110  | 0.111    | 0.0850 to 0.115 | 106  | 70.0 to 130 | 3.70  | 20.0  |
| BD06623 | Chromium, Total      | mg/L  | 0.0000577  | 0.000440 | 0.100 | 0.100  | 0.0988 | 0.0984   | 0.0850 to 0.115 | 100  | 70.0 to 130 | 1.21  | 20.0  |
| BD06614 | Cobalt, Dissolved    | mg/L  | -0.0000057 | 0.000147 | 0.100 | 0.108  | 0.111  | 0.110    | 0.0850 to 0.115 | 108  | 70.0 to 130 | 2.74  | 20.0  |
| BD06623 | Cobalt, Total        | mg/L  | -0.0000008 | 0.000147 | 0.100 | 0.103  | 0.101  | 0.101    | 0.0850 to 0.115 | 103  | 70.0 to 130 | 1.96  | 20.0  |
| BD06623 | Fluoride             | mg/L  | 0.00185    | 0.125    | 2.50  | 2.65   | 2.62   | 2.62     | 2.25 to 2.75    | 106  | 80.0 to 120 | 1.14  | 20.0  |
| BD06614 | Iron, Dissolved      | mg/L  | -0.000107  | 0.0176   | 0.2   | 0.757  | 0.755  | 0.202    | 0.170 to 0.230  | 97.5 | 70.0 to 130 | 0.265 | 20.0  |
| BD06623 | Iron, Total          | mg/L  | -0.000067  | 0.0176   | 0.2   | 0.197  | 0.193  | 0.194    | 0.170 to 0.230  | 98.5 | 70.0 to 130 | 2.05  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/3/23 16:40

**Customer ID:**

**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-7V

**Laboratory ID Number:** BD06614

| Sample  | Analysis               | Units | MB        |          | Spike | MS      | MSD     | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB        | Limit    |       |         |         | Standard | Limit              | Rec  | Limit       |       |       |
| BD06614 | Lead, Dissolved        | mg/L  | 0.0000188 | 0.000147 | 0.100 | 0.0994  | 0.0993  | 0.101    | 0.0850 to 0.115    | 99.4 | 70.0 to 130 | 0.101 | 20.0  |
| BD06623 | Lead, Total            | mg/L  | 0.0000100 | 0.000147 | 0.100 | 0.0981  | 0.0971  | 0.0990   | 0.0850 to 0.115    | 98.1 | 70.0 to 130 | 1.02  | 20.0  |
| BD06614 | Lithium, Dissolved     | mg/L  | 0.000058  | 0.0154   | 0.200 | 0.207   | 0.204   | 0.197    | 0.170 to 0.230     | 104  | 70.0 to 130 | 1.46  | 20.0  |
| BD06623 | Lithium, Total         | mg/L  | 0.000883  | 0.0154   | 0.200 | 0.197   | 0.195   | 0.191    | 0.170 to 0.230     | 98.5 | 70.0 to 130 | 1.02  | 20.0  |
| BD06614 | Magnesium, Dissolved   | mg/L  | -0.00906  | 0.0462   | 5.00  | 5.15    | 4.89    | 4.92     | 4.25 to 5.75       | 98.5 | 70.0 to 130 | 5.18  | 20.0  |
| BD06623 | Magnesium, Total       | mg/L  | -0.00266  | 0.0462   | 5.00  | 4.84    | 4.81    | 4.86     | 4.25 to 5.75       | 96.8 | 70.0 to 130 | 0.622 | 20.0  |
| BD06614 | Manganese, Dissolved   | mg/L  | 0.0000223 | 0.00033  | 0.100 | 0.115   | 0.120   | 0.102    | 0.0850 to 0.115    | 98.9 | 70.0 to 130 | 4.26  | 20.0  |
| BD06623 | Manganese, Total       | mg/L  | 0.0000173 | 0.00033  | 0.100 | 0.102   | 0.100   | 0.101    | 0.0850 to 0.115    | 102  | 70.0 to 130 | 1.98  | 20.0  |
| BD06623 | Mercury, Total by CVAA | mg/L  | 3.000E-05 | 0.000500 | 0.005 | 0.00388 | 0.00505 | 0.00409  | 0.00340 to 0.00460 | 77.6 | 70.0 to 130 | 26.2  | 20.0  |
| BD06614 | Molybdenum, Dissolved  | mg/L  | 0.000012  | 0.0100   | 0.2   | 0.206   | 0.206   | 0.203    | 0.170 to 0.230     | 103  | 70.0 to 130 | 0.00  | 20.0  |
| BD06623 | Molybdenum, Total      | mg/L  | 0.000     | 0.0100   | 0.2   | 0.199   | 0.197   | 0.199    | 0.170 to 0.230     | 99.5 | 70.0 to 130 | 1.01  | 20.0  |
| BD06614 | Potassium, Dissolved   | mg/L  | 0.0134    | 0.367    | 10.0  | 11.0    | 11.2    | 10.4     | 8.50 to 11.5       | 99.1 | 70.0 to 130 | 1.80  | 20.0  |
| BD06623 | Potassium, Total       | mg/L  | 0.0131    | 0.367    | 10.0  | 10.1    | 9.91    | 10.0     | 8.50 to 11.5       | 101  | 70.0 to 130 | 1.90  | 20.0  |
| BD06614 | Selenium, Dissolved    | mg/L  | 0.0000543 | 0.00100  | 0.100 | 0.109   | 0.112   | 0.109    | 0.0850 to 0.115    | 109  | 70.0 to 130 | 2.71  | 20.0  |
| BD06623 | Selenium, Total        | mg/L  | 0.000122  | 0.00100  | 0.100 | 0.101   | 0.100   | 0.103    | 0.0850 to 0.115    | 101  | 70.0 to 130 | 0.995 | 20.0  |
| BD06614 | Silicon, Dissolved     | mg/L  | 0.000048  | 0.0440   | 1.00  | 6.94    | 6.92    | 1.01     | 0.850 to 1.15      | 102  | 70.0 to 130 | 0.289 | 20.0  |
| BD06623 | Silicon, Total         | mg/L  | 0.00174   | 0.0440   | 1.00  | 0.990   | 0.979   | 0.987    | 0.850 to 1.15      | 99.0 | 70.0 to 130 | 1.12  | 20.0  |
| BD06614 | Sodium, Dissolved      | mg/L  | -0.00120  | 0.0880   | 5.00  | 123     | 122     | 4.73     | 4.25 to 5.75       | -120 | 70.0 to 130 | 0.816 | 20.0  |
| BD06623 | Sodium, Total          | mg/L  | 0.00274   | 0.0880   | 5.00  | 4.73    | 4.72    | 4.66     | 4.25 to 5.75       | 94.6 | 70.0 to 130 | 0.212 | 20.0  |
| BD06623 | Sulfate                | mg/L  | 0.416     | 2.0      | 20.0  | 21.0    | 20.5    | 20.3     | 18.0 to 22.0       | 105  | 80.0 to 120 | 2.41  | 20.0  |
| BD06614 | Thallium, Dissolved    | mg/L  | 0.0000007 | 0.000147 | 0.100 | 0.103   | 0.0996  | 0.102    | 0.0850 to 0.115    | 103  | 70.0 to 130 | 3.36  | 20.0  |
| BD06623 | Thallium, Total        | mg/L  | 0.0000062 | 0.000147 | 0.100 | 0.101   | 0.101   | 0.102    | 0.0850 to 0.115    | 101  | 70.0 to 130 | 0.00  | 20.0  |
| BD06623 | Total Organic Carbon   | mg/L  | 0.0651    | 1.00     | 10.0  | 9.83    | 9.42    | 25.6     |                    | 98.3 | 80.0 to 120 | 4.26  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/3/23 16:40

**Customer ID:**

**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-7V

**Laboratory ID Number:** BD06614

| Sample  | Analysis                  | Units      | MB     | MB<br>Limit | Spike | MS   | Sample<br>Duplicate | Standard | Standard<br>Limit | Rec | Rec<br>Limit | Prec  | Prec<br>Limit |
|---------|---------------------------|------------|--------|-------------|-------|------|---------------------|----------|-------------------|-----|--------------|-------|---------------|
| BD06780 | Alkalinity to pH 4.5      | mg CaCO3/L |        |             |       |      | 147                 | 50.5     | 45.0 to 55.0      |     |              | 0.678 | 10.0          |
| BD06623 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.08   | 0.200       | 2.00  | 2.08 | 0.076               | 2.11     | 1.80 to 2.20      | 104 | 90.0 to 110  | 0.00  | 15.0          |
| BD06620 | Solids, Dissolved         | mg/L       | 0.0000 | 25.0        |       |      | 612                 | 50.0     | 40.0 to 60.0      |     |              | 0.651 | 10.0          |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-7

**Location Code:** WMWBARAP  
**Collected:** 4/3/23 17:37  
**Customer ID:**  
**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06615

| Name                                | Prepared     | Analyzed            | Vio Spec | DF    | Results                             | Units | MDL      | RL         | Q |
|-------------------------------------|--------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| <b>Analytical Method: EPA 200.7</b> |              | <b>Analyst: ABB</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Boron, Total                      | 4/6/23 06:51 | 4/6/23 12:31        |          | 1.015 | 0.174                               | mg/L  | 0.030000 | 0.1015     |   |
| * Calcium, Total                    | 4/6/23 06:51 | 4/6/23 12:31        |          | 1.015 | 3.52                                | mg/L  | 0.070035 | 0.406      |   |
| * Iron, Total                       | 4/6/23 06:51 | 4/6/23 13:38        |          | 10.15 | 8.37                                | mg/L  | 0.08120  | 0.406      |   |
| * Lithium, Total                    | 4/6/23 06:51 | 4/6/23 12:31        |          | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |
| * Magnesium, Total                  | 4/6/23 06:51 | 4/6/23 12:31        |          | 1.015 | 2.50                                | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Total                 | 4/6/23 06:51 | 4/6/23 12:31        |          | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Total (calc.)             | 4/6/23 06:51 | 4/6/23 12:31        |          | 1     | 12.1                                | mg/L  |          |            |   |
| * Silicon, Total                    | 4/6/23 06:51 | 4/6/23 12:31        |          | 1.015 | 5.67                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Total                     | 4/6/23 06:51 | 4/6/23 13:38        |          | 10.15 | 65.6                                | mg/L  | 0.4060   | 4.06       |   |
| <b>Analytical Method: EPA 200.7</b> |              | <b>Analyst: ABB</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Boron, Dissolved                  | 4/6/23 09:44 | 4/7/23 12:05        |          | 1.015 | 0.177                               | mg/L  | 0.030000 | 0.1015     |   |
| * Calcium, Dissolved                | 4/6/23 09:44 | 4/7/23 12:05        |          | 1.015 | 3.52                                | mg/L  | 0.070035 | 0.406      |   |
| * Iron, Dissolved                   | 4/6/23 09:44 | 4/7/23 13:05        |          | 10.15 | 8.47                                | mg/L  | 0.08120  | 0.406      |   |
| * Lithium, Dissolved                | 4/6/23 09:44 | 4/7/23 12:05        |          | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |
| * Magnesium, Dissolved              | 4/6/23 09:44 | 4/7/23 12:05        |          | 1.015 | 2.54                                | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Dissolved             | 4/6/23 09:44 | 4/7/23 12:05        |          | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Dissolved (calc.)         | 4/6/23 09:44 | 4/7/23 12:05        |          | 1     | 12.2                                | mg/L  |          |            |   |
| * Silicon, Dissolved                | 4/6/23 09:44 | 4/7/23 12:05        |          | 1.015 | 5.72                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Dissolved                 | 4/6/23 09:44 | 4/7/23 13:05        |          | 10.15 | 65.4                                | mg/L  | 0.4060   | 4.06       |   |
| <b>Analytical Method: EPA 200.8</b> |              | <b>Analyst: DLJ</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Antimony, Total                   | 4/6/23 06:51 | 4/7/23 12:29        |          | 1.015 | Not Detected                        | mg/L  | 0.000710 | 0.001015   | U |
| * Aluminum, Total                   | 4/6/23 06:51 | 4/7/23 12:29        |          | 1.015 | Not Detected                        | mg/L  | 0.009135 | 0.05075    | U |
| * Arsenic, Total                    | 4/6/23 06:51 | 4/7/23 12:29        |          | 1.015 | 0.0130                              | mg/L  | 0.000112 | 0.000203   |   |
| * Barium, Total                     | 4/6/23 06:51 | 4/7/23 12:29        |          | 1.015 | 0.0288                              | mg/L  | 0.000508 | 0.001015   |   |
| * Beryllium, Total                  | 4/6/23 06:51 | 4/7/23 12:29        |          | 1.015 | Not Detected                        | mg/L  | 0.000406 | 0.001015   | U |
| * Cadmium, Total                    | 4/6/23 06:51 | 4/7/23 12:29        |          | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |
| * Chromium, Total                   | 4/6/23 06:51 | 4/7/23 12:29        |          | 1.015 | 0.000246                            | mg/L  | 0.000203 | 0.001015   | J |
| * Cobalt, Total                     | 4/6/23 06:51 | 4/7/23 12:29        |          | 1.015 | 0.00492                             | mg/L  | 0.000068 | 0.000203   |   |
| * Lead, Total                       | 4/6/23 06:51 | 4/7/23 12:29        |          | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |
| * Manganese, Total                  | 4/6/23 06:51 | 4/7/23 12:29        |          | 1.015 | 0.102                               | mg/L  | 0.000152 | 0.001015   |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-7

**Location Code:** WMWBARAP  
**Collected:** 4/3/23 17:37  
**Customer ID:**  
**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06615

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/6/23 06:51  | 4/7/23 12:29        |          | 1.015 | 1.81         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/6/23 06:51  | 4/7/23 12:29        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/6/23 06:51  | 4/7/23 12:29        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/6/23 09:44  | 4/6/23 12:06        |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/6/23 09:44  | 4/6/23 12:06        |          | 1.015 | Not Detected | mg/L       | 0.009135 | 0.05075  | U |
| * Arsenic, Dissolved                   | 4/6/23 09:44  | 4/6/23 12:06        |          | 1.015 | 0.0148       | mg/L       | 0.000112 | 0.000203 |   |
| * Barium, Dissolved                    | 4/6/23 09:44  | 4/6/23 12:06        |          | 1.015 | 0.0319       | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/6/23 09:44  | 4/6/23 12:06        |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/6/23 09:44  | 4/6/23 12:06        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/6/23 09:44  | 4/6/23 12:06        |          | 1.015 | 0.000218     | mg/L       | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved                    | 4/6/23 09:44  | 4/6/23 12:06        |          | 1.015 | 0.00554      | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/6/23 09:44  | 4/6/23 12:06        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/6/23 09:44  | 4/6/23 12:06        |          | 1.015 | 0.107        | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/6/23 09:44  | 4/6/23 12:06        |          | 1.015 | 1.99         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/6/23 09:44  | 4/6/23 12:06        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/6/23 09:44  | 4/6/23 12:06        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/11/23 18:35 | 4/11/23 23:32       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/6/23 09:20  | 4/6/23 09:20        |          | 1     | Not Detected | mg/L as N  | 0.20     | 0.3      | U |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/17/23 10:54 | 4/17/23 12:30       |          | 1     | 100          | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/6/23 10:55  | 4/7/23 12:30        |          | 1     | 198          | mg/L       |          | 25       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/17/23 10:54 | 4/17/23 12:30       |          | 1     | 99.9         | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 4/17/23 10:54 | 4/17/23 12:30       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/5/23 18:15  | 4/5/23 18:15        |          | 1     | 1.56         | mg/L       | 1.00     | 2        | J |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-7

**Location Code:** WMWBARAP

**Collected:** 4/3/23 17:37

**Customer ID:**

**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06615

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Chloride                                   | 4/12/23 11:41 | 4/12/23 11:41       |          | 5  | 59.4    | mg/L  | 2.50 | 2.5   |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Fluoride                                   | 4/13/23 10:50 | 4/13/23 10:50       |          | 1  | 0.171   | mg/L  | 0.06 | 0.125 |    |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |         |       |      |       |    |
| * Sulfate                                    | 4/6/23 10:43  | 4/6/23 10:43        |          | 1  | 14.8    | mg/L  | 0.6  | 2     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: TJD</b> |          |    |         |       |      |       |    |
| Conductivity                                 | 4/3/23 17:34  | 4/3/23 17:34        |          |    | 376.47  | uS/cm |      |       | FA |
| pH   | 4/3/23 17:34  | 4/3/23 17:34        |          |    | 6.53    | SU    |      |       | FA |
| Temperature                                  | 4/3/23 17:34  | 4/3/23 17:34        |          |    | 21.16   | C     |      |       | FA |
| Turbidity                                    | 4/3/23 17:34  | 4/3/23 17:34        |          |    | 1.03    | NTU   |      |       | FA |
| Sulfide                                      | 4/3/23 17:34  | 4/3/23 17:34        |          |    | 0       | mg/L  |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/3/23 17:37

**Customer ID:**

**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-7

**Laboratory ID Number:** BD06615

| Sample  | Analysis             | Units | MB         | MB       |       |        |        | Standard |                 | Rec  |             |       | Prec Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|------------|
|         |                      |       |            | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec  | Limit       | Prec  |            |
| BD06622 | Aluminum, Dissolved  | mg/L  | -0.0000829 | 0.0198   | 0.100 | 0.102  | 0.102  | 0.103    | 0.0850 to 0.115 | 102  | 70.0 to 130 | 0.00  | 20.0       |
| BD06623 | Aluminum, Total      | mg/L  | 0.000464   | 0.0198   | 0.100 | 0.102  | 0.0992 | 0.103    | 0.0850 to 0.115 | 102  | 70.0 to 130 | 2.78  | 20.0       |
| BD06622 | Antimony, Dissolved  | mg/L  | 0.000282   | 0.00100  | 0.100 | 0.106  | 0.103  | 0.105    | 0.0850 to 0.115 | 106  | 70.0 to 130 | 2.87  | 20.0       |
| BD06623 | Antimony, Total      | mg/L  | 0.000260   | 0.00100  | 0.100 | 0.0952 | 0.0937 | 0.0922   | 0.0850 to 0.115 | 95.2 | 70.0 to 130 | 1.59  | 20.0       |
| BD06622 | Arsenic, Dissolved   | mg/L  | 0.0000293  | 0.000200 | 0.100 | 0.127  | 0.128  | 0.108    | 0.0850 to 0.115 | 110  | 70.0 to 130 | 0.784 | 20.0       |
| BD06623 | Arsenic, Total       | mg/L  | 0.0000185  | 0.000200 | 0.100 | 0.0990 | 0.0984 | 0.101    | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 0.608 | 20.0       |
| BD06622 | Barium, Dissolved    | mg/L  | 0.0000004  | 0.00100  | 0.100 | 0.231  | 0.234  | 0.104    | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 1.29  | 20.0       |
| BD06623 | Barium, Total        | mg/L  | 0.0000235  | 0.00100  | 0.100 | 0.0962 | 0.0934 | 0.0935   | 0.0850 to 0.115 | 96.2 | 70.0 to 130 | 2.95  | 20.0       |
| BD06622 | Beryllium, Dissolved | mg/L  | 0.0000122  | 0.000880 | 0.100 | 0.0999 | 0.0987 | 0.0962   | 0.0850 to 0.115 | 99.9 | 70.0 to 130 | 1.21  | 20.0       |
| BD06623 | Beryllium, Total     | mg/L  | 0.0000089  | 0.000880 | 0.100 | 0.0937 | 0.0937 | 0.0982   | 0.0850 to 0.115 | 93.7 | 70.0 to 130 | 0.00  | 20.0       |
| BD06622 | Boron, Dissolved     | mg/L  | 0.000167   | 0.0650   | 1.00  | 2.70   | 2.69   | 1.01     | 0.850 to 1.15   | 102  | 70.0 to 130 | 0.371 | 20.0       |
| BD06623 | Boron, Total         | mg/L  | -0.00119   | 0.0650   | 1.00  | 0.992  | 0.982  | 0.989    | 0.850 to 1.15   | 99.2 | 70.0 to 130 | 1.01  | 20.0       |
| BD06622 | Cadmium, Dissolved   | mg/L  | 0.0000050  | 0.000147 | 0.100 | 0.103  | 0.109  | 0.111    | 0.0850 to 0.115 | 103  | 70.0 to 130 | 5.66  | 20.0       |
| BD06623 | Cadmium, Total       | mg/L  | 0.0000000  | 0.000147 | 0.100 | 0.0989 | 0.0992 | 0.0971   | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 0.303 | 20.0       |
| BD06622 | Calcium, Dissolved   | mg/L  | -0.0141    | 0.152    | 5.00  | 38.0   | 37.8   | 4.92     | 4.25 to 5.75    | 96.0 | 70.0 to 130 | 0.528 | 20.0       |
| BD06623 | Calcium, Total       | mg/L  | 0.00187    | 0.152    | 5.00  | 4.77   | 4.82   | 4.92     | 4.25 to 5.75    | 95.4 | 70.0 to 130 | 1.04  | 20.0       |
| BD06622 | Chloride             | mg/L  | 0.0211     | 1.00     | 10.0  | 26.7   | 26.9   | 10.3     | 9.00 to 11.0    | 87.0 | 80.0 to 120 | 0.746 | 20.0       |
| BD06622 | Chromium, Dissolved  | mg/L  | -0.0000464 | 0.000440 | 0.100 | 0.105  | 0.106  | 0.111    | 0.0850 to 0.115 | 104  | 70.0 to 130 | 0.948 | 20.0       |
| BD06623 | Chromium, Total      | mg/L  | 0.0000577  | 0.000440 | 0.100 | 0.100  | 0.0988 | 0.0984   | 0.0850 to 0.115 | 100  | 70.0 to 130 | 1.21  | 20.0       |
| BD06622 | Cobalt, Dissolved    | mg/L  | -0.0000057 | 0.000147 | 0.100 | 0.108  | 0.107  | 0.110    | 0.0850 to 0.115 | 107  | 70.0 to 130 | 0.930 | 20.0       |
| BD06623 | Cobalt, Total        | mg/L  | -0.0000008 | 0.000147 | 0.100 | 0.103  | 0.101  | 0.101    | 0.0850 to 0.115 | 103  | 70.0 to 130 | 1.96  | 20.0       |
| BD06623 | Fluoride             | mg/L  | 0.00185    | 0.125    | 2.50  | 2.65   | 2.62   | 2.62     | 2.25 to 2.75    | 106  | 80.0 to 120 | 1.14  | 20.0       |
| BD06622 | Iron, Dissolved      | mg/L  | -0.000107  | 0.0176   | 0.2   | 93.2   | 93.5   | 0.202    | 0.170 to 0.230  | 100  | 70.0 to 130 | 0.321 | 20.0       |
| BD06623 | Iron, Total          | mg/L  | -0.000067  | 0.0176   | 0.2   | 0.197  | 0.193  | 0.194    | 0.170 to 0.230  | 98.5 | 70.0 to 130 | 2.05  | 20.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/3/23 17:37  
**Customer ID:**  
**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-7

**Laboratory ID Number:** BD06615

| Sample  | Analysis               | Units | MB        |          |       |         |         | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB        | Limit    | Spike | MS      | MSD     | Standard | Limit              | Rec  | Limit       |       |       |
| BD06622 | Lead, Dissolved        | mg/L  | 0.0000188 | 0.000147 | 0.100 | 0.0986  | 0.0971  | 0.101    | 0.0850 to 0.115    | 98.6 | 70.0 to 130 | 1.53  | 20.0  |
| BD06623 | Lead, Total            | mg/L  | 0.0000100 | 0.000147 | 0.100 | 0.0981  | 0.0971  | 0.0990   | 0.0850 to 0.115    | 98.1 | 70.0 to 130 | 1.02  | 20.0  |
| BD06622 | Lithium, Dissolved     | mg/L  | 0.000058  | 0.0154   | 0.200 | 0.206   | 0.207   | 0.197    | 0.170 to 0.230     | 103  | 70.0 to 130 | 0.484 | 20.0  |
| BD06623 | Lithium, Total         | mg/L  | 0.000883  | 0.0154   | 0.200 | 0.197   | 0.195   | 0.191    | 0.170 to 0.230     | 98.5 | 70.0 to 130 | 1.02  | 20.0  |
| BD06622 | Magnesium, Dissolved   | mg/L  | -0.00906  | 0.0462   | 5.00  | 17.0    | 17.0    | 4.92     | 4.25 to 5.75       | 96.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD06623 | Magnesium, Total       | mg/L  | -0.00266  | 0.0462   | 5.00  | 4.84    | 4.81    | 4.86     | 4.25 to 5.75       | 96.8 | 70.0 to 130 | 0.622 | 20.0  |
| BD06622 | Manganese, Dissolved   | mg/L  | 0.0000223 | 0.00033  | 0.100 | 1.87    | 1.84    | 0.102    | 0.0850 to 0.115    | 110  | 70.0 to 130 | 1.62  | 20.0  |
| BD06623 | Manganese, Total       | mg/L  | 0.0000173 | 0.00033  | 0.100 | 0.102   | 0.100   | 0.101    | 0.0850 to 0.115    | 102  | 70.0 to 130 | 1.98  | 20.0  |
| BD06623 | Mercury, Total by CVAA | mg/L  | 3.000E-05 | 0.000500 | 0.005 | 0.00388 | 0.00505 | 0.00409  | 0.00340 to 0.00460 | 77.6 | 70.0 to 130 | 26.2  | 20.0  |
| BD06622 | Molybdenum, Dissolved  | mg/L  | 0.000012  | 0.0100   | 0.2   | 0.204   | 0.203   | 0.203    | 0.170 to 0.230     | 102  | 70.0 to 130 | 0.491 | 20.0  |
| BD06623 | Molybdenum, Total      | mg/L  | 0.000     | 0.0100   | 0.2   | 0.199   | 0.197   | 0.199    | 0.170 to 0.230     | 99.5 | 70.0 to 130 | 1.01  | 20.0  |
| BD06622 | Potassium, Dissolved   | mg/L  | 0.0134    | 0.367    | 10.0  | 11.7    | 11.4    | 10.4     | 8.50 to 11.5       | 99.1 | 70.0 to 130 | 2.60  | 20.0  |
| BD06623 | Potassium, Total       | mg/L  | 0.0131    | 0.367    | 10.0  | 10.1    | 9.91    | 10.0     | 8.50 to 11.5       | 101  | 70.0 to 130 | 1.90  | 20.0  |
| BD06622 | Selenium, Dissolved    | mg/L  | 0.0000543 | 0.00100  | 0.100 | 0.112   | 0.114   | 0.109    | 0.0850 to 0.115    | 112  | 70.0 to 130 | 1.77  | 20.0  |
| BD06623 | Selenium, Total        | mg/L  | 0.000122  | 0.00100  | 0.100 | 0.101   | 0.100   | 0.103    | 0.0850 to 0.115    | 101  | 70.0 to 130 | 0.995 | 20.0  |
| BD06622 | Silicon, Dissolved     | mg/L  | 0.000048  | 0.0440   | 1.00  | 10.6    | 10.6    | 1.01     | 0.850 to 1.15      | 97.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD06623 | Silicon, Total         | mg/L  | 0.00174   | 0.0440   | 1.00  | 0.990   | 0.979   | 0.987    | 0.850 to 1.15      | 99.0 | 70.0 to 130 | 1.12  | 20.0  |
| BD06622 | Sodium, Dissolved      | mg/L  | -0.00120  | 0.0880   | 5.00  | 23.4    | 23.5    | 4.73     | 4.25 to 5.75       | 90.0 | 70.0 to 130 | 0.426 | 20.0  |
| BD06623 | Sodium, Total          | mg/L  | 0.00274   | 0.0880   | 5.00  | 4.73    | 4.72    | 4.66     | 4.25 to 5.75       | 94.6 | 70.0 to 130 | 0.212 | 20.0  |
| BD06623 | Sulfate                | mg/L  | 0.416     | 2.0      | 20.0  | 21.0    | 20.5    | 20.3     | 18.0 to 22.0       | 105  | 80.0 to 120 | 2.41  | 20.0  |
| BD06622 | Thallium, Dissolved    | mg/L  | 0.0000007 | 0.000147 | 0.100 | 0.101   | 0.101   | 0.102    | 0.0850 to 0.115    | 101  | 70.0 to 130 | 0.00  | 20.0  |
| BD06623 | Thallium, Total        | mg/L  | 0.0000062 | 0.000147 | 0.100 | 0.101   | 0.101   | 0.102    | 0.0850 to 0.115    | 101  | 70.0 to 130 | 0.00  | 20.0  |
| BD06623 | Total Organic Carbon   | mg/L  | 0.0651    | 1.00     | 10.0  | 9.83    | 9.42    | 25.6     |                    | 98.3 | 80.0 to 120 | 4.26  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/3/23 17:37

**Customer ID:**

**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-7

**Laboratory ID Number:** BD06615

| Sample  | Analysis                  | Units      | MB     | MB Limit | Spike | MS   | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit   | Prec  | Prec Limit |
|---------|---------------------------|------------|--------|----------|-------|------|------------------|----------|----------------|-----|-------------|-------|------------|
| BD06780 | Alkalinity to pH 4.5      | mg CaCO3/L |        |          |       |      | 147              | 50.5     | 45.0 to 55.0   |     |             | 0.678 | 10.0       |
| BD06623 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.08   | 0.200    | 2.00  | 2.08 | 0.076            | 2.11     | 1.80 to 2.20   | 104 | 90.0 to 110 | 0.00  | 15.0       |
| BD06620 | Solids, Dissolved         | mg/L       | 0.0000 | 25.0     |       |      | 612              | 50.0     | 40.0 to 60.0   |     |             | 0.651 | 10.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-6

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 08:50  
**Customer ID:**  
**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06616

| Name                                | Prepared     | Analyzed            | Vio Spec | DF    | Results                             | Units | MDL      | RL         | Q |  |
|-------------------------------------|--------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| <b>Analytical Method: EPA 200.7</b> |              | <b>Analyst: ABB</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |  |
| * Boron, Total                      | 4/6/23 06:51 | 4/6/23 12:34        |          | 1.015 | Not Detected                        | mg/L  | 0.030000 | 0.1015     | U |  |
| * Calcium, Total                    | 4/6/23 06:51 | 4/6/23 12:34        |          | 1.015 | 1.94                                | mg/L  | 0.070035 | 0.406      |   |  |
| * Iron, Total                       | 4/6/23 06:51 | 4/6/23 12:34        |          | 1.015 | 0.0289                              | mg/L  | 0.008120 | 0.0406     | J |  |
| * Lithium, Total                    | 4/6/23 06:51 | 4/6/23 12:34        |          | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |  |
| * Magnesium, Total                  | 4/6/23 06:51 | 4/6/23 12:34        |          | 1.015 | 1.32                                | mg/L  | 0.021315 | 0.406      |   |  |
| * Molybdenum, Total                 | 4/6/23 06:51 | 4/6/23 12:34        |          | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |  |
| * Silica, Total (calc.)             | 4/6/23 06:51 | 4/6/23 12:34        |          | 1     | 13.3                                | mg/L  |          |            |   |  |
| * Silicon, Total                    | 4/6/23 06:51 | 4/6/23 12:34        |          | 1.015 | 6.21                                | mg/L  | 0.02030  | 0.25375    |   |  |
| * Sodium, Total                     | 4/6/23 06:51 | 4/6/23 12:34        |          | 1.015 | 7.30                                | mg/L  | 0.04060  | 0.406      |   |  |
| <b>Analytical Method: EPA 200.7</b> |              | <b>Analyst: ABB</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |  |
| * Boron, Dissolved                  | 4/6/23 09:44 | 4/7/23 12:08        |          | 1.015 | Not Detected                        | mg/L  | 0.030000 | 0.1015     | U |  |
| * Calcium, Dissolved                | 4/6/23 09:44 | 4/7/23 12:08        |          | 1.015 | 1.91                                | mg/L  | 0.070035 | 0.406      |   |  |
| * Iron, Dissolved                   | 4/6/23 09:44 | 4/7/23 12:08        |          | 1.015 | 0.0360                              | mg/L  | 0.008120 | 0.0406     | J |  |
| * Lithium, Dissolved                | 4/6/23 09:44 | 4/7/23 12:08        |          | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |  |
| * Magnesium, Dissolved              | 4/6/23 09:44 | 4/7/23 12:08        |          | 1.015 | 1.32                                | mg/L  | 0.021315 | 0.406      |   |  |
| * Molybdenum, Dissolved             | 4/6/23 09:44 | 4/7/23 12:08        |          | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |  |
| * Silica, Dissolved (calc.)         | 4/6/23 09:44 | 4/7/23 12:08        |          | 1     | 13.4                                | mg/L  |          |            |   |  |
| * Silicon, Dissolved                | 4/6/23 09:44 | 4/7/23 12:08        |          | 1.015 | 6.24                                | mg/L  | 0.02030  | 0.25375    |   |  |
| * Sodium, Dissolved                 | 4/6/23 09:44 | 4/7/23 12:08        |          | 1.015 | 7.38                                | mg/L  | 0.04060  | 0.406      |   |  |
| <b>Analytical Method: EPA 200.8</b> |              | <b>Analyst: DLJ</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |  |
| * Antimony, Total                   | 4/6/23 06:51 | 4/7/23 12:33        |          | 1.015 | Not Detected                        | mg/L  | 0.000710 | 0.001015   | U |  |
| * Aluminum, Total                   | 4/6/23 06:51 | 4/7/23 12:33        |          | 1.015 | Not Detected                        | mg/L  | 0.009135 | 0.05075    | U |  |
| * Arsenic, Total                    | 4/6/23 06:51 | 4/7/23 12:33        |          | 1.015 | Not Detected                        | mg/L  | 0.000112 | 0.000203   | U |  |
| * Barium, Total                     | 4/6/23 06:51 | 4/7/23 12:33        |          | 1.015 | 0.0275                              | mg/L  | 0.000508 | 0.001015   |   |  |
| * Beryllium, Total                  | 4/6/23 06:51 | 4/7/23 12:33        |          | 1.015 | Not Detected                        | mg/L  | 0.000406 | 0.001015   | U |  |
| * Cadmium, Total                    | 4/6/23 06:51 | 4/7/23 12:33        |          | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |  |
| * Chromium, Total                   | 4/6/23 06:51 | 4/7/23 12:33        |          | 1.015 | 0.000267                            | mg/L  | 0.000203 | 0.001015   | J |  |
| * Cobalt, Total                     | 4/6/23 06:51 | 4/7/23 12:33        |          | 1.015 | 0.000584                            | mg/L  | 0.000068 | 0.000203   |   |  |
| * Lead, Total                       | 4/6/23 06:51 | 4/7/23 12:33        |          | 1.015 | 0.00183                             | mg/L  | 0.000068 | 0.000203   |   |  |
| * Manganese, Total                  | 4/6/23 06:51 | 4/7/23 12:33        |          | 1.015 | 0.00463                             | mg/L  | 0.000152 | 0.001015   |   |  |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-6

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 08:50  
**Customer ID:**  
**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06616

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/6/23 06:51  | 4/7/23 12:33        |          | 1.015 | 1.16         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/6/23 06:51  | 4/7/23 12:33        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/6/23 06:51  | 4/7/23 12:33        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/6/23 09:44  | 4/6/23 12:09        |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/6/23 09:44  | 4/6/23 12:09        |          | 1.015 | Not Detected | mg/L       | 0.009135 | 0.05075  | U |
| * Arsenic, Dissolved                   | 4/6/23 09:44  | 4/6/23 12:09        |          | 1.015 | Not Detected | mg/L       | 0.000112 | 0.000203 | U |
| * Barium, Dissolved                    | 4/6/23 09:44  | 4/6/23 12:09        |          | 1.015 | 0.0312       | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/6/23 09:44  | 4/6/23 12:09        |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/6/23 09:44  | 4/6/23 12:09        |          | 1.015 | 0.0000780    | mg/L       | 0.000068 | 0.000203 | J |
| * Chromium, Dissolved                  | 4/6/23 09:44  | 4/6/23 12:09        |          | 1.015 | 0.000216     | mg/L       | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved                    | 4/6/23 09:44  | 4/6/23 12:09        |          | 1.015 | 0.000652     | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/6/23 09:44  | 4/6/23 12:09        |          | 1.015 | 0.00195      | mg/L       | 0.000068 | 0.000203 |   |
| * Manganese, Dissolved                 | 4/6/23 09:44  | 4/6/23 12:09        |          | 1.015 | 0.00503      | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/6/23 09:44  | 4/6/23 12:09        |          | 1.015 | 1.18         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/6/23 09:44  | 4/6/23 12:09        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/6/23 09:44  | 4/6/23 12:09        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/11/23 18:35 | 4/11/23 23:36       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/6/23 09:22  | 4/6/23 09:22        |          | 1     | Not Detected | mg/L as N  | 0.20     | 0.3      | U |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/17/23 10:54 | 4/17/23 12:30       |          | 1     | 15.8         | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/6/23 10:55  | 4/7/23 12:30        |          | 1     | 40.0         | mg/L       |          | 25       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/17/23 10:54 | 4/17/23 12:30       |          | 1     | 15.8         | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 4/17/23 10:54 | 4/17/23 12:30       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/5/23 18:29  | 4/5/23 18:29        |          | 1     | Not Detected | mg/L       | 1.00     | 2        | U |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-6

**Location Code:** WMWBARAP

**Collected:** 4/4/23 08:50

**Customer ID:**

**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06616

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results      | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|--------------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: CES</b> |          |    |              |       |      |       |    |
| * Chloride                                   | 4/12/23 11:26 | 4/12/23 11:26       |          | 1  | 7.81         | mg/L  | 0.50 | 0.5   |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: CES</b> |          |    |              |       |      |       |    |
| * Fluoride                                   | 4/13/23 10:51 | 4/13/23 10:51       |          | 1  | Not Detected | mg/L  | 0.06 | 0.125 | U  |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |              |       |      |       |    |
| * Sulfate                                    | 4/6/23 10:44  | 4/6/23 10:44        |          | 1  | 1.59         | mg/L  | 0.6  | 2     | J  |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: TJD</b> |          |    |              |       |      |       |    |
| Conductivity                                 | 4/4/23 08:47  | 4/4/23 08:47        |          |    | 61.93        | uS/cm |      |       | FA |
| pH   | 4/4/23 08:47  | 4/4/23 08:47        |          |    | 5.33         | SU    |      |       | FA |
| Temperature                                  | 4/4/23 08:47  | 4/4/23 08:47        |          |    | 21.41        | C     |      |       | FA |
| Turbidity                                    | 4/4/23 08:47  | 4/4/23 08:47        |          |    | 1.33         | NTU   |      |       | FA |
| Sulfide                                      | 4/4/23 08:47  | 4/4/23 08:47        |          |    | 0            | mg/L  |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/4/23 08:50  
**Customer ID:**  
**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-6

**Laboratory ID Number:** BD06616

| Sample  | Analysis             | Units | MB         | MB       |       |        |        | Standard |                 | Rec  |             | Prec  | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
|         |                      |       |            | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec  | Limit       |       |       |
| BD06622 | Aluminum, Dissolved  | mg/L  | -0.000829  | 0.0198   | 0.100 | 0.102  | 0.102  | 0.103    | 0.0850 to 0.115 | 102  | 70.0 to 130 | 0.00  | 20.0  |
| BD06623 | Aluminum, Total      | mg/L  | 0.000464   | 0.0198   | 0.100 | 0.102  | 0.0992 | 0.103    | 0.0850 to 0.115 | 102  | 70.0 to 130 | 2.78  | 20.0  |
| BD06622 | Antimony, Dissolved  | mg/L  | 0.000282   | 0.00100  | 0.100 | 0.106  | 0.103  | 0.105    | 0.0850 to 0.115 | 106  | 70.0 to 130 | 2.87  | 20.0  |
| BD06623 | Antimony, Total      | mg/L  | 0.000260   | 0.00100  | 0.100 | 0.0952 | 0.0937 | 0.0922   | 0.0850 to 0.115 | 95.2 | 70.0 to 130 | 1.59  | 20.0  |
| BD06622 | Arsenic, Dissolved   | mg/L  | 0.000293   | 0.000200 | 0.100 | 0.127  | 0.128  | 0.108    | 0.0850 to 0.115 | 110  | 70.0 to 130 | 0.784 | 20.0  |
| BD06623 | Arsenic, Total       | mg/L  | 0.000185   | 0.000200 | 0.100 | 0.0990 | 0.0984 | 0.101    | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 0.608 | 20.0  |
| BD06622 | Barium, Dissolved    | mg/L  | 0.0000004  | 0.00100  | 0.100 | 0.231  | 0.234  | 0.104    | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 1.29  | 20.0  |
| BD06623 | Barium, Total        | mg/L  | 0.0000235  | 0.00100  | 0.100 | 0.0962 | 0.0934 | 0.0935   | 0.0850 to 0.115 | 96.2 | 70.0 to 130 | 2.95  | 20.0  |
| BD06622 | Beryllium, Dissolved | mg/L  | 0.0000122  | 0.000880 | 0.100 | 0.0999 | 0.0987 | 0.0962   | 0.0850 to 0.115 | 99.9 | 70.0 to 130 | 1.21  | 20.0  |
| BD06623 | Beryllium, Total     | mg/L  | 0.0000089  | 0.000880 | 0.100 | 0.0937 | 0.0937 | 0.0982   | 0.0850 to 0.115 | 93.7 | 70.0 to 130 | 0.00  | 20.0  |
| BD06622 | Boron, Dissolved     | mg/L  | 0.000167   | 0.0650   | 1.00  | 2.70   | 2.69   | 1.01     | 0.850 to 1.15   | 102  | 70.0 to 130 | 0.371 | 20.0  |
| BD06623 | Boron, Total         | mg/L  | -0.00119   | 0.0650   | 1.00  | 0.992  | 0.982  | 0.989    | 0.850 to 1.15   | 99.2 | 70.0 to 130 | 1.01  | 20.0  |
| BD06622 | Cadmium, Dissolved   | mg/L  | 0.0000050  | 0.000147 | 0.100 | 0.103  | 0.109  | 0.111    | 0.0850 to 0.115 | 103  | 70.0 to 130 | 5.66  | 20.0  |
| BD06623 | Cadmium, Total       | mg/L  | 0.0000000  | 0.000147 | 0.100 | 0.0989 | 0.0992 | 0.0971   | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 0.303 | 20.0  |
| BD06622 | Calcium, Dissolved   | mg/L  | -0.0141    | 0.152    | 5.00  | 38.0   | 37.8   | 4.92     | 4.25 to 5.75    | 96.0 | 70.0 to 130 | 0.528 | 20.0  |
| BD06623 | Calcium, Total       | mg/L  | 0.00187    | 0.152    | 5.00  | 4.77   | 4.82   | 4.92     | 4.25 to 5.75    | 95.4 | 70.0 to 130 | 1.04  | 20.0  |
| BD06622 | Chloride             | mg/L  | 0.0211     | 1.00     | 10.0  | 26.7   | 26.9   | 10.3     | 9.00 to 11.0    | 87.0 | 80.0 to 120 | 0.746 | 20.0  |
| BD06622 | Chromium, Dissolved  | mg/L  | -0.0000464 | 0.000440 | 0.100 | 0.105  | 0.106  | 0.111    | 0.0850 to 0.115 | 104  | 70.0 to 130 | 0.948 | 20.0  |
| BD06623 | Chromium, Total      | mg/L  | 0.0000577  | 0.000440 | 0.100 | 0.100  | 0.0988 | 0.0984   | 0.0850 to 0.115 | 100  | 70.0 to 130 | 1.21  | 20.0  |
| BD06622 | Cobalt, Dissolved    | mg/L  | -0.0000057 | 0.000147 | 0.100 | 0.108  | 0.107  | 0.110    | 0.0850 to 0.115 | 107  | 70.0 to 130 | 0.930 | 20.0  |
| BD06623 | Cobalt, Total        | mg/L  | -0.0000008 | 0.000147 | 0.100 | 0.103  | 0.101  | 0.101    | 0.0850 to 0.115 | 103  | 70.0 to 130 | 1.96  | 20.0  |
| BD06623 | Fluoride             | mg/L  | 0.00185    | 0.125    | 2.50  | 2.65   | 2.62   | 2.62     | 2.25 to 2.75    | 106  | 80.0 to 120 | 1.14  | 20.0  |
| BD06622 | Iron, Dissolved      | mg/L  | -0.000107  | 0.0176   | 0.2   | 93.2   | 93.5   | 0.202    | 0.170 to 0.230  | 100  | 70.0 to 130 | 0.321 | 20.0  |
| BD06623 | Iron, Total          | mg/L  | -0.000067  | 0.0176   | 0.2   | 0.197  | 0.193  | 0.194    | 0.170 to 0.230  | 98.5 | 70.0 to 130 | 2.05  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/4/23 08:50  
**Customer ID:**  
**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-6

**Laboratory ID Number:** BD06616

| Sample  | Analysis               | Units | MB        |          | Spike | MS      | MSD     | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB        | Limit    |       |         |         | Standard | Limit              | Rec  | Limit       |       |       |
| BD06622 | Lead, Dissolved        | mg/L  | 0.0000188 | 0.000147 | 0.100 | 0.0986  | 0.0971  | 0.101    | 0.0850 to 0.115    | 98.6 | 70.0 to 130 | 1.53  | 20.0  |
| BD06623 | Lead, Total            | mg/L  | 0.0000100 | 0.000147 | 0.100 | 0.0981  | 0.0971  | 0.0990   | 0.0850 to 0.115    | 98.1 | 70.0 to 130 | 1.02  | 20.0  |
| BD06622 | Lithium, Dissolved     | mg/L  | 0.000058  | 0.0154   | 0.200 | 0.206   | 0.207   | 0.197    | 0.170 to 0.230     | 103  | 70.0 to 130 | 0.484 | 20.0  |
| BD06623 | Lithium, Total         | mg/L  | 0.000883  | 0.0154   | 0.200 | 0.197   | 0.195   | 0.191    | 0.170 to 0.230     | 98.5 | 70.0 to 130 | 1.02  | 20.0  |
| BD06622 | Magnesium, Dissolved   | mg/L  | -0.00906  | 0.0462   | 5.00  | 17.0    | 17.0    | 4.92     | 4.25 to 5.75       | 96.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD06623 | Magnesium, Total       | mg/L  | -0.00266  | 0.0462   | 5.00  | 4.84    | 4.81    | 4.86     | 4.25 to 5.75       | 96.8 | 70.0 to 130 | 0.622 | 20.0  |
| BD06622 | Manganese, Dissolved   | mg/L  | 0.0000223 | 0.00033  | 0.100 | 1.87    | 1.84    | 0.102    | 0.0850 to 0.115    | 110  | 70.0 to 130 | 1.62  | 20.0  |
| BD06623 | Manganese, Total       | mg/L  | 0.0000173 | 0.00033  | 0.100 | 0.102   | 0.100   | 0.101    | 0.0850 to 0.115    | 102  | 70.0 to 130 | 1.98  | 20.0  |
| BD06623 | Mercury, Total by CVAA | mg/L  | 3.000E-05 | 0.000500 | 0.005 | 0.00388 | 0.00505 | 0.00409  | 0.00340 to 0.00460 | 77.6 | 70.0 to 130 | 26.2  | 20.0  |
| BD06622 | Molybdenum, Dissolved  | mg/L  | 0.000012  | 0.0100   | 0.2   | 0.204   | 0.203   | 0.203    | 0.170 to 0.230     | 102  | 70.0 to 130 | 0.491 | 20.0  |
| BD06623 | Molybdenum, Total      | mg/L  | 0.000     | 0.0100   | 0.2   | 0.199   | 0.197   | 0.199    | 0.170 to 0.230     | 99.5 | 70.0 to 130 | 1.01  | 20.0  |
| BD06622 | Potassium, Dissolved   | mg/L  | 0.0134    | 0.367    | 10.0  | 11.7    | 11.4    | 10.4     | 8.50 to 11.5       | 99.1 | 70.0 to 130 | 2.60  | 20.0  |
| BD06623 | Potassium, Total       | mg/L  | 0.0131    | 0.367    | 10.0  | 10.1    | 9.91    | 10.0     | 8.50 to 11.5       | 101  | 70.0 to 130 | 1.90  | 20.0  |
| BD06622 | Selenium, Dissolved    | mg/L  | 0.0000543 | 0.00100  | 0.100 | 0.112   | 0.114   | 0.109    | 0.0850 to 0.115    | 112  | 70.0 to 130 | 1.77  | 20.0  |
| BD06623 | Selenium, Total        | mg/L  | 0.000122  | 0.00100  | 0.100 | 0.101   | 0.100   | 0.103    | 0.0850 to 0.115    | 101  | 70.0 to 130 | 0.995 | 20.0  |
| BD06622 | Silicon, Dissolved     | mg/L  | 0.000048  | 0.0440   | 1.00  | 10.6    | 10.6    | 1.01     | 0.850 to 1.15      | 97.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD06623 | Silicon, Total         | mg/L  | 0.00174   | 0.0440   | 1.00  | 0.990   | 0.979   | 0.987    | 0.850 to 1.15      | 99.0 | 70.0 to 130 | 1.12  | 20.0  |
| BD06622 | Sodium, Dissolved      | mg/L  | -0.00120  | 0.0880   | 5.00  | 23.4    | 23.5    | 4.73     | 4.25 to 5.75       | 90.0 | 70.0 to 130 | 0.426 | 20.0  |
| BD06623 | Sodium, Total          | mg/L  | 0.00274   | 0.0880   | 5.00  | 4.73    | 4.72    | 4.66     | 4.25 to 5.75       | 94.6 | 70.0 to 130 | 0.212 | 20.0  |
| BD06623 | Sulfate                | mg/L  | 0.416     | 2.0      | 20.0  | 21.0    | 20.5    | 20.3     | 18.0 to 22.0       | 105  | 80.0 to 120 | 2.41  | 20.0  |
| BD06622 | Thallium, Dissolved    | mg/L  | 0.0000007 | 0.000147 | 0.100 | 0.101   | 0.101   | 0.102    | 0.0850 to 0.115    | 101  | 70.0 to 130 | 0.00  | 20.0  |
| BD06623 | Thallium, Total        | mg/L  | 0.0000062 | 0.000147 | 0.100 | 0.101   | 0.101   | 0.102    | 0.0850 to 0.115    | 101  | 70.0 to 130 | 0.00  | 20.0  |
| BD06623 | Total Organic Carbon   | mg/L  | 0.0651    | 1.00     | 10.0  | 9.83    | 9.42    | 25.6     |                    | 98.3 | 80.0 to 120 | 4.26  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/4/23 08:50

**Customer ID:**

**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-6

**Laboratory ID Number:** BD06616

| Sample  | Analysis                  | Units      | MB     | MB<br>Limit | Spike | MS   | Sample<br>Duplicate | Standard | Standard<br>Limit | Rec | Limit       | Prec  | Limit |
|---------|---------------------------|------------|--------|-------------|-------|------|---------------------|----------|-------------------|-----|-------------|-------|-------|
| BD06780 | Alkalinity to pH 4.5      | mg CaCO3/L |        |             |       |      | 147                 | 50.5     | 45.0 to 55.0      |     |             | 0.678 | 10.0  |
| BD06623 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.08   | 0.200       | 2.00  | 2.08 | 0.076               | 2.11     | 1.80 to 2.20      | 104 | 90.0 to 110 | 0.00  | 15.0  |
| BD06620 | Solids, Dissolved         | mg/L       | 0.0000 | 25.0        |       |      | 612                 | 50.0     | 40.0 to 60.0      |     |             | 0.651 | 10.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

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

**Location Code:** WMWBARAPFB

**Collected:** 4/4/23 09:20

**Customer ID:**

**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06617

| Name                                | Prepared      | Analyzed            | Vio Spec | DF    | Results                             | Units     | MDL      | RL         | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-----------|----------|------------|---|
| <b>Analytical Method: EPA 200.7</b> |               | <b>Analyst: ABB</b> |          |       | <b>Preparation Method: EPA 1638</b> |           |          |            |   |
| * Boron, Total                      | 4/6/23 06:51  | 4/6/23 12:37        |          | 1.015 | Not Detected                        | mg/L      | 0.030000 | 0.1015     | U |
| * Calcium, Total                    | 4/6/23 06:51  | 4/6/23 12:37        |          | 1.015 | Not Detected                        | mg/L      | 0.070035 | 0.406      | U |
| * Iron, Total                       | 4/6/23 06:51  | 4/6/23 12:37        |          | 1.015 | Not Detected                        | mg/L      | 0.008120 | 0.0406     | U |
| * Lithium, Total                    | 4/6/23 06:51  | 4/6/23 12:37        |          | 1.015 | Not Detected                        | mg/L      | 0.007105 | 0.01999956 | U |
| * Magnesium, Total                  | 4/6/23 06:51  | 4/6/23 12:37        |          | 1.015 | Not Detected                        | mg/L      | 0.021315 | 0.406      | U |
| * Molybdenum, Total                 | 4/6/23 06:51  | 4/6/23 12:37        |          | 1.015 | Not Detected                        | mg/L      | 0.005075 | 0.01015    | U |
| * Silica, Total (calc.)             | 4/6/23 06:51  | 4/6/23 12:37        |          | 1     | Not Detected                        | mg/L      |          |            |   |
| * Silicon, Total                    | 4/6/23 06:51  | 4/6/23 12:37        |          | 1.015 | Not Detected                        | mg/L      | 0.02030  | 0.25375    | U |
| * Sodium, Total                     | 4/6/23 06:51  | 4/6/23 12:37        |          | 1.015 | Not Detected                        | mg/L      | 0.04060  | 0.406      | U |
| <b>Analytical Method: EPA 200.8</b> |               | <b>Analyst: DLJ</b> |          |       | <b>Preparation Method: EPA 1638</b> |           |          |            |   |
| * Antimony, Total                   | 4/6/23 06:51  | 4/7/23 12:36        |          | 1.015 | Not Detected                        | mg/L      | 0.000710 | 0.001015   | U |
| * Aluminum, Total                   | 4/6/23 06:51  | 4/7/23 12:36        |          | 1.015 | Not Detected                        | mg/L      | 0.009135 | 0.05075    | U |
| * Arsenic, Total                    | 4/6/23 06:51  | 4/7/23 12:36        |          | 1.015 | Not Detected                        | mg/L      | 0.000112 | 0.000203   | U |
| * Barium, Total                     | 4/6/23 06:51  | 4/7/23 12:36        |          | 1.015 | Not Detected                        | mg/L      | 0.000508 | 0.001015   | U |
| * Beryllium, Total                  | 4/6/23 06:51  | 4/7/23 12:36        |          | 1.015 | Not Detected                        | mg/L      | 0.000406 | 0.001015   | U |
| * Cadmium, Total                    | 4/6/23 06:51  | 4/7/23 12:36        |          | 1.015 | Not Detected                        | mg/L      | 0.000068 | 0.000203   | U |
| * Chromium, Total                   | 4/6/23 06:51  | 4/7/23 12:36        |          | 1.015 | 0.000231                            | mg/L      | 0.000203 | 0.001015   | J |
| * Cobalt, Total                     | 4/6/23 06:51  | 4/7/23 12:36        |          | 1.015 | Not Detected                        | mg/L      | 0.000068 | 0.000203   | U |
| * Lead, Total                       | 4/6/23 06:51  | 4/7/23 12:36        |          | 1.015 | Not Detected                        | mg/L      | 0.000068 | 0.000203   | U |
| * Manganese, Total                  | 4/6/23 06:51  | 4/7/23 12:36        |          | 1.015 | Not Detected                        | mg/L      | 0.000152 | 0.001015   | U |
| * Potassium, Total                  | 4/6/23 06:51  | 4/7/23 12:36        |          | 1.015 | Not Detected                        | mg/L      | 0.169505 | 0.5075     | U |
| * Selenium, Total                   | 4/6/23 06:51  | 4/7/23 12:36        |          | 1.015 | Not Detected                        | mg/L      | 0.000508 | 0.001015   | U |
| * Thallium, Total                   | 4/6/23 06:51  | 4/7/23 12:36        |          | 1.015 | Not Detected                        | mg/L      | 0.000068 | 0.000203   | U |
| <b>Analytical Method: EPA 245.1</b> |               | <b>Analyst: CRB</b> |          |       |                                     |           |          |            |   |
| * Mercury, Total by CVAA            | 4/11/23 18:35 | 4/11/23 23:40       |          | 1     | Not Detected                        | mg/L      | 0.0003   | 0.0005     | U |
| <b>Analytical Method: EPA 353.2</b> |               | <b>Analyst: SC</b>  |          |       |                                     |           |          |            |   |
| * Nitrogen, Nitrate/Nitrite         | 4/6/23 09:24  | 4/6/23 09:24        |          | 1     | Not Detected                        | mg/L as N | 0.20     | 0.3        | U |
| <b>Analytical Method: SM 2540C</b>  |               | <b>Analyst: CNJ</b> |          |       |                                     |           |          |            |   |
| * Solids, Dissolved                 | 4/6/23 10:55  | 4/7/23 12:30        |          | 1     | Not Detected                        | mg/L      |          | 25         | U |

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

**Comments:**

# Certificate Of Analysis

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

**Location Code:** WMWBARAPFB

**Collected:** 4/4/23 09:20

**Customer ID:**

**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06617

| Name                                       | Prepared      | Analyzed            | Vio Spec | DF | Results      | Units | MDL  | RL    | Q |
|--|---------------|---------------------|----------|----|--------------|-------|------|-------|---|
| <b>Analytical Method: SM 5310 B</b>        |               | <b>Analyst: SC</b>  |          |    |              |       |      |       |   |
| * Total Organic Carbon                     | 4/5/23 18:44  | 4/5/23 18:44        |          | 1  | Not Detected | mg/L  | 1.00 | 2     | U |
| <b>Analytical Method: SM4500Cl E</b>       |               | <b>Analyst: CES</b> |          |    |              |       |      |       |   |
| * Chloride                                 | 4/12/23 11:36 | 4/12/23 11:36       |          | 1  | Not Detected | mg/L  | 0.50 | 0.5   | U |
| <b>Analytical Method: SM4500F G 2017</b>   |               | <b>Analyst: CES</b> |          |    |              |       |      |       |   |
| * Fluoride                                 | 4/13/23 10:52 | 4/13/23 10:52       |          | 1  | Not Detected | mg/L  | 0.06 | 0.125 | U |
| <b>Analytical Method: SM4500SO4 E 2011</b> |               | <b>Analyst: JCC</b> |          |    |              |       |      |       |   |
| * Sulfate                                  | 4/6/23 10:46  | 4/6/23 10:46        |          | 1  | Not Detected | mg/L  | 0.6  | 2     | U |

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

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**Comments:**

# Batch QC Summary

**Customer Account:** WMWBARAPFB

**Sample Date:** 4/4/23 09:20

**Customer ID:**

**Delivery Date:** 4/5/23 07:36

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

**Laboratory ID Number:** BD06617

| Sample  | Analysis               | Units | MB         |          | Spike | MS      | MSD     | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB         | Limit    |       |         |         | Standard | Limit              | Rec  | Limit       |       |       |
| BD06623 | Aluminum, Total        | mg/L  | 0.000464   | 0.0198   | 0.100 | 0.102   | 0.0992  | 0.103    | 0.0850 to 0.115    | 102  | 70.0 to 130 | 2.78  | 20.0  |
| BD06623 | Antimony, Total        | mg/L  | 0.000260   | 0.00100  | 0.100 | 0.0952  | 0.0937  | 0.0922   | 0.0850 to 0.115    | 95.2 | 70.0 to 130 | 1.59  | 20.0  |
| BD06623 | Arsenic, Total         | mg/L  | 0.0000185  | 0.000200 | 0.100 | 0.0990  | 0.0984  | 0.101    | 0.0850 to 0.115    | 99.0 | 70.0 to 130 | 0.608 | 20.0  |
| BD06623 | Barium, Total          | mg/L  | 0.0000235  | 0.00100  | 0.100 | 0.0962  | 0.0934  | 0.0935   | 0.0850 to 0.115    | 96.2 | 70.0 to 130 | 2.95  | 20.0  |
| BD06623 | Beryllium, Total       | mg/L  | 0.0000089  | 0.000880 | 0.100 | 0.0937  | 0.0937  | 0.0982   | 0.0850 to 0.115    | 93.7 | 70.0 to 130 | 0.00  | 20.0  |
| BD06623 | Boron, Total           | mg/L  | -0.00119   | 0.0650   | 1.00  | 0.992   | 0.982   | 0.989    | 0.850 to 1.15      | 99.2 | 70.0 to 130 | 1.01  | 20.0  |
| BD06623 | Cadmium, Total         | mg/L  | 0.0000000  | 0.000147 | 0.100 | 0.0989  | 0.0992  | 0.0971   | 0.0850 to 0.115    | 98.9 | 70.0 to 130 | 0.303 | 20.0  |
| BD06623 | Calcium, Total         | mg/L  | 0.00187    | 0.152    | 5.00  | 4.77    | 4.82    | 4.92     | 4.25 to 5.75       | 95.4 | 70.0 to 130 | 1.04  | 20.0  |
| BD06622 | Chloride               | mg/L  | 0.0211     | 1.00     | 10.0  | 26.7    | 26.9    | 10.3     | 9.00 to 11.0       | 87.0 | 80.0 to 120 | 0.746 | 20.0  |
| BD06623 | Chromium, Total        | mg/L  | 0.0000577  | 0.000440 | 0.100 | 0.100   | 0.0988  | 0.0984   | 0.0850 to 0.115    | 100  | 70.0 to 130 | 1.21  | 20.0  |
| BD06623 | Cobalt, Total          | mg/L  | -0.0000008 | 0.000147 | 0.100 | 0.103   | 0.101   | 0.101    | 0.0850 to 0.115    | 103  | 70.0 to 130 | 1.96  | 20.0  |
| BD06623 | Fluoride               | mg/L  | 0.00185    | 0.125    | 2.50  | 2.65    | 2.62    | 2.62     | 2.25 to 2.75       | 106  | 80.0 to 120 | 1.14  | 20.0  |
| BD06623 | Iron, Total            | mg/L  | -0.000067  | 0.0176   | 0.2   | 0.197   | 0.193   | 0.194    | 0.170 to 0.230     | 98.5 | 70.0 to 130 | 2.05  | 20.0  |
| BD06623 | Lead, Total            | mg/L  | 0.0000100  | 0.000147 | 0.100 | 0.0981  | 0.0971  | 0.0990   | 0.0850 to 0.115    | 98.1 | 70.0 to 130 | 1.02  | 20.0  |
| BD06623 | Lithium, Total         | mg/L  | 0.000883   | 0.0154   | 0.200 | 0.197   | 0.195   | 0.191    | 0.170 to 0.230     | 98.5 | 70.0 to 130 | 1.02  | 20.0  |
| BD06623 | Magnesium, Total       | mg/L  | -0.00266   | 0.0462   | 5.00  | 4.84    | 4.81    | 4.86     | 4.25 to 5.75       | 96.8 | 70.0 to 130 | 0.622 | 20.0  |
| BD06623 | Manganese, Total       | mg/L  | 0.0000173  | 0.00033  | 0.100 | 0.102   | 0.100   | 0.101    | 0.0850 to 0.115    | 102  | 70.0 to 130 | 1.98  | 20.0  |
| BD06623 | Mercury, Total by CVAA | mg/L  | 3.000E-05  | 0.000500 | 0.005 | 0.00388 | 0.00505 | 0.00409  | 0.00340 to 0.00460 | 77.6 | 70.0 to 130 | 26.2  | 20.0  |
| BD06623 | Molybdenum, Total      | mg/L  | 0.000      | 0.0100   | 0.2   | 0.199   | 0.197   | 0.199    | 0.170 to 0.230     | 99.5 | 70.0 to 130 | 1.01  | 20.0  |
| BD06623 | Potassium, Total       | mg/L  | 0.0131     | 0.367    | 10.0  | 10.1    | 9.91    | 10.0     | 8.50 to 11.5       | 101  | 70.0 to 130 | 1.90  | 20.0  |
| BD06623 | Selenium, Total        | mg/L  | 0.000122   | 0.00100  | 0.100 | 0.101   | 0.100   | 0.103    | 0.0850 to 0.115    | 101  | 70.0 to 130 | 0.995 | 20.0  |
| BD06623 | Silicon, Total         | mg/L  | 0.00174    | 0.0440   | 1.00  | 0.990   | 0.979   | 0.987    | 0.850 to 1.15      | 99.0 | 70.0 to 130 | 1.12  | 20.0  |
| BD06623 | Sodium, Total          | mg/L  | 0.00274    | 0.0880   | 5.00  | 4.73    | 4.72    | 4.66     | 4.25 to 5.75       | 94.6 | 70.0 to 130 | 0.212 | 20.0  |
| BD06623 | Sulfate                | mg/L  | 0.416      | 2.0      | 20.0  | 21.0    | 20.5    | 20.3     | 18.0 to 22.0       | 105  | 80.0 to 120 | 2.41  | 20.0  |

**Comments:**

# Batch QC Summary

**Customer Account:** WMWBARAPFB

**Sample Date:** 4/4/23 09:20

**Customer ID:**

**Delivery Date:** 4/5/23 07:36

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

**Laboratory ID Number:** BD06617

| Sample  | Analysis             | Units | MB        | MB       |       |       |       | Standard |                 | Rec  |             | Prec |       |
|---------|----------------------|-------|-----------|----------|-------|-------|-------|----------|-----------------|------|-------------|------|-------|
|         |                      |       |           | Limit    | Spike | MS    | MSD   | Standard | Limit           | Rec  | Limit       | Prec | Limit |
| BD06623 | Thallium, Total      | mg/L  | 0.0000062 | 0.000147 | 0.100 | 0.101 | 0.101 | 0.102    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 0.00 | 20.0  |
| BD06623 | Total Organic Carbon | mg/L  | 0.0651    | 1.00     | 10.0  | 9.83  | 9.42  | 25.6     |                 | 98.3 | 80.0 to 120 | 4.26 | 20.0  |

**Comments:**

## Batch QC Summary

**Customer Account:** WMWBARAPFB

**Sample Date:** 4/4/23 09:20

**Customer ID:**

**Delivery Date:** 4/5/23 07:36

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

**Laboratory ID Number:** BD06617

| Sample  | Analysis                  | Units     | MB     | MB<br>Limit | Spike | MS   | Sample<br>Duplicate | Standard | Standard<br>Limit | Rec | Rec<br>Limit | Prec  | Prec<br>Limit |
|---------|---------------------------|-----------|--------|-------------|-------|------|---------------------|----------|-------------------|-----|--------------|-------|---------------|
| BD06623 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.08   | 0.200       | 2.00  | 2.08 | 0.076               | 2.11     | 1.80 to 2.20      | 104 | 90.0 to 110  | 0.00  | 15.0          |
| BD06620 | Solids, Dissolved         | mg/L      | 0.0000 | 25.0        |       |      | 612                 | 50.0     | 40.0 to 60.0      |     |              | 0.651 | 10.0          |

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**Comments:**

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-8

**Location Code:** WMWBARAP  
**Collected:** 4/3/23 09:42  
**Customer ID:**  
**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06618

| Name                                | Prepared     | Analyzed     | Vio Spec            | DF    | Results      | Units                               | MDL      | RL         | Q |
|-------------------------------------|--------------|--------------|---------------------|-------|--------------|-------------------------------------|----------|------------|---|
| <b>Analytical Method: EPA 200.7</b> |              |              | <b>Analyst: ABB</b> |       |              | <b>Preparation Method: EPA 1638</b> |          |            |   |
| * Boron, Total                      | 4/6/23 06:51 | 4/6/23 12:41 |                     | 1.015 | 0.129        | mg/L                                | 0.030000 | 0.1015     |   |
| * Calcium, Total                    | 4/6/23 06:51 | 4/6/23 12:41 |                     | 1.015 | 4.21         | mg/L                                | 0.070035 | 0.406      |   |
| * Iron, Total                       | 4/6/23 06:51 | 4/6/23 13:41 |                     | 10.15 | 12.4         | mg/L                                | 0.08120  | 0.406      |   |
| * Lithium, Total                    | 4/6/23 06:51 | 4/6/23 12:41 |                     | 1.015 | Not Detected | mg/L                                | 0.007105 | 0.01999956 | U |
| * Magnesium, Total                  | 4/6/23 06:51 | 4/6/23 12:41 |                     | 1.015 | 1.54         | mg/L                                | 0.021315 | 0.406      |   |
| * Molybdenum, Total                 | 4/6/23 06:51 | 4/6/23 12:41 |                     | 1.015 | Not Detected | mg/L                                | 0.005075 | 0.01015    | U |
| * Silica, Total (calc.)             | 4/6/23 06:51 | 4/6/23 12:41 |                     | 1     | 13.6         | mg/L                                |          |            |   |
| * Silicon, Total                    | 4/6/23 06:51 | 4/6/23 12:41 |                     | 1.015 | 6.36         | mg/L                                | 0.02030  | 0.25375    |   |
| * Sodium, Total                     | 4/6/23 06:51 | 4/6/23 12:41 |                     | 1.015 | 18.4         | mg/L                                | 0.04060  | 0.406      |   |
| <b>Analytical Method: EPA 200.7</b> |              |              | <b>Analyst: ABB</b> |       |              |                                     |          |            |   |
| * Boron, Dissolved                  | 4/6/23 09:44 | 4/7/23 12:11 |                     | 1.015 | 0.134        | mg/L                                | 0.030000 | 0.1015     |   |
| * Calcium, Dissolved                | 4/6/23 09:44 | 4/7/23 12:11 |                     | 1.015 | 3.99         | mg/L                                | 0.070035 | 0.406      |   |
| * Iron, Dissolved                   | 4/6/23 09:44 | 4/7/23 13:08 |                     | 10.15 | 12.5         | mg/L                                | 0.08120  | 0.406      |   |
| * Lithium, Dissolved                | 4/6/23 09:44 | 4/7/23 12:11 |                     | 1.015 | Not Detected | mg/L                                | 0.007105 | 0.01999956 | U |
| * Magnesium, Dissolved              | 4/6/23 09:44 | 4/7/23 12:11 |                     | 1.015 | 1.49         | mg/L                                | 0.021315 | 0.406      |   |
| * Molybdenum, Dissolved             | 4/6/23 09:44 | 4/7/23 12:11 |                     | 1.015 | Not Detected | mg/L                                | 0.005075 | 0.01015    | U |
| * Silica, Dissolved (calc.)         | 4/6/23 09:44 | 4/7/23 12:11 |                     | 1     | 13.7         | mg/L                                |          |            |   |
| * Silicon, Dissolved                | 4/6/23 09:44 | 4/7/23 12:11 |                     | 1.015 | 6.41         | mg/L                                | 0.02030  | 0.25375    |   |
| * Sodium, Dissolved                 | 4/6/23 09:44 | 4/7/23 12:11 |                     | 1.015 | 18.5         | mg/L                                | 0.04060  | 0.406      |   |
| <b>Analytical Method: EPA 200.8</b> |              |              | <b>Analyst: DLJ</b> |       |              | <b>Preparation Method: EPA 1638</b> |          |            |   |
| * Antimony, Total                   | 4/6/23 06:51 | 4/7/23 12:40 |                     | 1.015 | Not Detected | mg/L                                | 0.000710 | 0.001015   | U |
| * Aluminum, Total                   | 4/6/23 06:51 | 4/7/23 12:40 |                     | 1.015 | 0.0369       | mg/L                                | 0.009135 | 0.05075    | J |
| * Arsenic, Total                    | 4/6/23 06:51 | 4/7/23 12:40 |                     | 1.015 | 0.00353      | mg/L                                | 0.000112 | 0.000203   |   |
| * Barium, Total                     | 4/6/23 06:51 | 4/7/23 12:40 |                     | 1.015 | 0.0223       | mg/L                                | 0.000508 | 0.001015   |   |
| * Beryllium, Total                  | 4/6/23 06:51 | 4/7/23 12:40 |                     | 1.015 | Not Detected | mg/L                                | 0.000406 | 0.001015   | U |
| * Cadmium, Total                    | 4/6/23 06:51 | 4/7/23 12:40 |                     | 1.015 | Not Detected | mg/L                                | 0.000068 | 0.000203   | U |
| * Chromium, Total                   | 4/6/23 06:51 | 4/7/23 12:40 |                     | 1.015 | 0.00115      | mg/L                                | 0.000203 | 0.001015   |   |
| * Cobalt, Total                     | 4/6/23 06:51 | 4/7/23 12:40 |                     | 1.015 | 0.000153     | mg/L                                | 0.000068 | 0.000203   | J |
| * Lead, Total                       | 4/6/23 06:51 | 4/7/23 12:40 |                     | 1.015 | Not Detected | mg/L                                | 0.000068 | 0.000203   | U |
| * Manganese, Total                  | 4/6/23 06:51 | 4/7/23 12:40 |                     | 1.015 | 0.211        | mg/L                                | 0.000152 | 0.001015   |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-8

**Location Code:** WMWBARAP  
**Collected:** 4/3/23 09:42  
**Customer ID:**  
**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06618

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/6/23 06:51  | 4/7/23 12:40        |          | 1.015 | 0.546        | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/6/23 06:51  | 4/7/23 12:40        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/6/23 06:51  | 4/7/23 12:40        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/6/23 09:44  | 4/6/23 12:13        |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/6/23 09:44  | 4/6/23 12:13        |          | 1.015 | Not Detected | mg/L       | 0.009135 | 0.05075  | U |
| * Arsenic, Dissolved                   | 4/6/23 09:44  | 4/6/23 12:13        |          | 1.015 | 0.00320      | mg/L       | 0.000112 | 0.000203 |   |
| * Barium, Dissolved                    | 4/6/23 09:44  | 4/6/23 12:13        |          | 1.015 | 0.0232       | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/6/23 09:44  | 4/6/23 12:13        |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/6/23 09:44  | 4/6/23 12:13        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/6/23 09:44  | 4/6/23 12:13        |          | 1.015 | 0.000805     | mg/L       | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved                    | 4/6/23 09:44  | 4/6/23 12:13        |          | 1.015 | 0.000149     | mg/L       | 0.000068 | 0.000203 | J |
| * Lead, Dissolved                      | 4/6/23 09:44  | 4/6/23 12:13        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/6/23 09:44  | 4/6/23 12:13        |          | 1.015 | 0.211        | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/6/23 09:44  | 4/6/23 12:13        |          | 1.015 | 0.546        | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/6/23 09:44  | 4/6/23 12:13        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/6/23 09:44  | 4/6/23 12:13        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/11/23 18:35 | 4/11/23 23:44       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/6/23 09:26  | 4/6/23 09:26        |          | 1     | Not Detected | mg/L as N  | 0.20     | 0.3      | U |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/14/23 14:44 | 4/14/23 15:50       |          | 1     | 25.1         | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/6/23 10:55  | 4/7/23 12:30        |          | 1     | 107          | mg/L       |          | 25       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/14/23 14:44 | 4/14/23 15:50       |          | 1     | 25.1         | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 4/14/23 14:44 | 4/14/23 15:50       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/5/23 18:58  | 4/5/23 18:58        |          | 1     | 4.99         | mg/L       | 1.00     | 2        |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-8

**Location Code:** WMWBARAP

**Collected:** 4/3/23 09:42

**Customer ID:**

**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06618

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Chloride                                   | 4/12/23 11:28 | 4/12/23 11:28       |          | 1  | 10.8    | mg/L  | 0.50 | 0.5   |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Fluoride                                   | 4/13/23 10:53 | 4/13/23 10:53       |          | 1  | 0.0706  | mg/L  | 0.06 | 0.125 | J  |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |         |       |      |       |    |
| * Sulfate                                    | 4/6/23 10:47  | 4/6/23 10:47        |          | 1  | 32.1    | mg/L  | 0.6  | 2     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: DKG</b> |          |    |         |       |      |       |    |
| Conductivity                                 | 4/3/23 09:39  | 4/3/23 09:39        |          |    | 154.48  | uS/cm |      |       | FA |
| pH   | 4/3/23 09:39  | 4/3/23 09:39        |          |    | 6.34    | SU    |      |       | FA |
| Temperature                                  | 4/3/23 09:39  | 4/3/23 09:39        |          |    | 19.37   | C     |      |       | FA |
| Turbidity                                    | 4/3/23 09:39  | 4/3/23 09:39        |          |    | 5.38    | NTU   |      |       | FA |
| Sulfide                                      | 4/3/23 09:39  | 4/3/23 09:39        |          |    | 0       | mg/L  |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/3/23 09:42  
**Customer ID:**  
**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-8

**Laboratory ID Number:** BD06618

| Sample  | Analysis             | Units | MB         | MB       |       |        |        | Standard |                 | Rec  |             | Prec  | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
|         |                      |       |            | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec  | Limit       |       |       |
| BD06622 | Aluminum, Dissolved  | mg/L  | -0.000829  | 0.0198   | 0.100 | 0.102  | 0.102  | 0.103    | 0.0850 to 0.115 | 102  | 70.0 to 130 | 0.00  | 20.0  |
| BD06623 | Aluminum, Total      | mg/L  | 0.000464   | 0.0198   | 0.100 | 0.102  | 0.0992 | 0.103    | 0.0850 to 0.115 | 102  | 70.0 to 130 | 2.78  | 20.0  |
| BD06622 | Antimony, Dissolved  | mg/L  | 0.000282   | 0.00100  | 0.100 | 0.106  | 0.103  | 0.105    | 0.0850 to 0.115 | 106  | 70.0 to 130 | 2.87  | 20.0  |
| BD06623 | Antimony, Total      | mg/L  | 0.000260   | 0.00100  | 0.100 | 0.0952 | 0.0937 | 0.0922   | 0.0850 to 0.115 | 95.2 | 70.0 to 130 | 1.59  | 20.0  |
| BD06622 | Arsenic, Dissolved   | mg/L  | 0.000293   | 0.000200 | 0.100 | 0.127  | 0.128  | 0.108    | 0.0850 to 0.115 | 110  | 70.0 to 130 | 0.784 | 20.0  |
| BD06623 | Arsenic, Total       | mg/L  | 0.000185   | 0.000200 | 0.100 | 0.0990 | 0.0984 | 0.101    | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 0.608 | 20.0  |
| BD06622 | Barium, Dissolved    | mg/L  | 0.0000004  | 0.00100  | 0.100 | 0.231  | 0.234  | 0.104    | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 1.29  | 20.0  |
| BD06623 | Barium, Total        | mg/L  | 0.0000235  | 0.00100  | 0.100 | 0.0962 | 0.0934 | 0.0935   | 0.0850 to 0.115 | 96.2 | 70.0 to 130 | 2.95  | 20.0  |
| BD06622 | Beryllium, Dissolved | mg/L  | 0.0000122  | 0.000880 | 0.100 | 0.0999 | 0.0987 | 0.0962   | 0.0850 to 0.115 | 99.9 | 70.0 to 130 | 1.21  | 20.0  |
| BD06623 | Beryllium, Total     | mg/L  | 0.0000089  | 0.000880 | 0.100 | 0.0937 | 0.0937 | 0.0982   | 0.0850 to 0.115 | 93.7 | 70.0 to 130 | 0.00  | 20.0  |
| BD06622 | Boron, Dissolved     | mg/L  | 0.000167   | 0.0650   | 1.00  | 2.70   | 2.69   | 1.01     | 0.850 to 1.15   | 102  | 70.0 to 130 | 0.371 | 20.0  |
| BD06623 | Boron, Total         | mg/L  | -0.00119   | 0.0650   | 1.00  | 0.992  | 0.982  | 0.989    | 0.850 to 1.15   | 99.2 | 70.0 to 130 | 1.01  | 20.0  |
| BD06622 | Cadmium, Dissolved   | mg/L  | 0.0000050  | 0.000147 | 0.100 | 0.103  | 0.109  | 0.111    | 0.0850 to 0.115 | 103  | 70.0 to 130 | 5.66  | 20.0  |
| BD06623 | Cadmium, Total       | mg/L  | 0.0000000  | 0.000147 | 0.100 | 0.0989 | 0.0992 | 0.0971   | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 0.303 | 20.0  |
| BD06622 | Calcium, Dissolved   | mg/L  | -0.0141    | 0.152    | 5.00  | 38.0   | 37.8   | 4.92     | 4.25 to 5.75    | 96.0 | 70.0 to 130 | 0.528 | 20.0  |
| BD06623 | Calcium, Total       | mg/L  | 0.00187    | 0.152    | 5.00  | 4.77   | 4.82   | 4.92     | 4.25 to 5.75    | 95.4 | 70.0 to 130 | 1.04  | 20.0  |
| BD06622 | Chloride             | mg/L  | 0.0211     | 1.00     | 10.0  | 26.7   | 26.9   | 10.3     | 9.00 to 11.0    | 87.0 | 80.0 to 120 | 0.746 | 20.0  |
| BD06622 | Chromium, Dissolved  | mg/L  | -0.0000464 | 0.000440 | 0.100 | 0.105  | 0.106  | 0.111    | 0.0850 to 0.115 | 104  | 70.0 to 130 | 0.948 | 20.0  |
| BD06623 | Chromium, Total      | mg/L  | 0.0000577  | 0.000440 | 0.100 | 0.100  | 0.0988 | 0.0984   | 0.0850 to 0.115 | 100  | 70.0 to 130 | 1.21  | 20.0  |
| BD06622 | Cobalt, Dissolved    | mg/L  | -0.0000057 | 0.000147 | 0.100 | 0.108  | 0.107  | 0.110    | 0.0850 to 0.115 | 107  | 70.0 to 130 | 0.930 | 20.0  |
| BD06623 | Cobalt, Total        | mg/L  | -0.0000008 | 0.000147 | 0.100 | 0.103  | 0.101  | 0.101    | 0.0850 to 0.115 | 103  | 70.0 to 130 | 1.96  | 20.0  |
| BD06623 | Fluoride             | mg/L  | 0.00185    | 0.125    | 2.50  | 2.65   | 2.62   | 2.62     | 2.25 to 2.75    | 106  | 80.0 to 120 | 1.14  | 20.0  |
| BD06622 | Iron, Dissolved      | mg/L  | -0.000107  | 0.0176   | 0.2   | 93.2   | 93.5   | 0.202    | 0.170 to 0.230  | 100  | 70.0 to 130 | 0.321 | 20.0  |
| BD06623 | Iron, Total          | mg/L  | -0.000067  | 0.0176   | 0.2   | 0.197  | 0.193  | 0.194    | 0.170 to 0.230  | 98.5 | 70.0 to 130 | 2.05  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/3/23 09:42  
**Customer ID:**  
**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-8

**Laboratory ID Number:** BD06618

| Sample  | Analysis               | Units | MB        |          | Spike | MS      | MSD     | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB        | Limit    |       |         |         | Standard | Limit              | Rec  | Limit       |       |       |
| BD06622 | Lead, Dissolved        | mg/L  | 0.0000188 | 0.000147 | 0.100 | 0.0986  | 0.0971  | 0.101    | 0.0850 to 0.115    | 98.6 | 70.0 to 130 | 1.53  | 20.0  |
| BD06623 | Lead, Total            | mg/L  | 0.0000100 | 0.000147 | 0.100 | 0.0981  | 0.0971  | 0.0990   | 0.0850 to 0.115    | 98.1 | 70.0 to 130 | 1.02  | 20.0  |
| BD06622 | Lithium, Dissolved     | mg/L  | 0.000058  | 0.0154   | 0.200 | 0.206   | 0.207   | 0.197    | 0.170 to 0.230     | 103  | 70.0 to 130 | 0.484 | 20.0  |
| BD06623 | Lithium, Total         | mg/L  | 0.000883  | 0.0154   | 0.200 | 0.197   | 0.195   | 0.191    | 0.170 to 0.230     | 98.5 | 70.0 to 130 | 1.02  | 20.0  |
| BD06622 | Magnesium, Dissolved   | mg/L  | -0.00906  | 0.0462   | 5.00  | 17.0    | 17.0    | 4.92     | 4.25 to 5.75       | 96.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD06623 | Magnesium, Total       | mg/L  | -0.00266  | 0.0462   | 5.00  | 4.84    | 4.81    | 4.86     | 4.25 to 5.75       | 96.8 | 70.0 to 130 | 0.622 | 20.0  |
| BD06622 | Manganese, Dissolved   | mg/L  | 0.0000223 | 0.00033  | 0.100 | 1.87    | 1.84    | 0.102    | 0.0850 to 0.115    | 110  | 70.0 to 130 | 1.62  | 20.0  |
| BD06623 | Manganese, Total       | mg/L  | 0.0000173 | 0.00033  | 0.100 | 0.102   | 0.100   | 0.101    | 0.0850 to 0.115    | 102  | 70.0 to 130 | 1.98  | 20.0  |
| BD06623 | Mercury, Total by CVAA | mg/L  | 3.000E-05 | 0.000500 | 0.005 | 0.00388 | 0.00505 | 0.00409  | 0.00340 to 0.00460 | 77.6 | 70.0 to 130 | 26.2  | 20.0  |
| BD06622 | Molybdenum, Dissolved  | mg/L  | 0.000012  | 0.0100   | 0.2   | 0.204   | 0.203   | 0.203    | 0.170 to 0.230     | 102  | 70.0 to 130 | 0.491 | 20.0  |
| BD06623 | Molybdenum, Total      | mg/L  | 0.000     | 0.0100   | 0.2   | 0.199   | 0.197   | 0.199    | 0.170 to 0.230     | 99.5 | 70.0 to 130 | 1.01  | 20.0  |
| BD06622 | Potassium, Dissolved   | mg/L  | 0.0134    | 0.367    | 10.0  | 11.7    | 11.4    | 10.4     | 8.50 to 11.5       | 99.1 | 70.0 to 130 | 2.60  | 20.0  |
| BD06623 | Potassium, Total       | mg/L  | 0.0131    | 0.367    | 10.0  | 10.1    | 9.91    | 10.0     | 8.50 to 11.5       | 101  | 70.0 to 130 | 1.90  | 20.0  |
| BD06622 | Selenium, Dissolved    | mg/L  | 0.0000543 | 0.00100  | 0.100 | 0.112   | 0.114   | 0.109    | 0.0850 to 0.115    | 112  | 70.0 to 130 | 1.77  | 20.0  |
| BD06623 | Selenium, Total        | mg/L  | 0.000122  | 0.00100  | 0.100 | 0.101   | 0.100   | 0.103    | 0.0850 to 0.115    | 101  | 70.0 to 130 | 0.995 | 20.0  |
| BD06622 | Silicon, Dissolved     | mg/L  | 0.000048  | 0.0440   | 1.00  | 10.6    | 10.6    | 1.01     | 0.850 to 1.15      | 97.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD06623 | Silicon, Total         | mg/L  | 0.00174   | 0.0440   | 1.00  | 0.990   | 0.979   | 0.987    | 0.850 to 1.15      | 99.0 | 70.0 to 130 | 1.12  | 20.0  |
| BD06622 | Sodium, Dissolved      | mg/L  | -0.00120  | 0.0880   | 5.00  | 23.4    | 23.5    | 4.73     | 4.25 to 5.75       | 90.0 | 70.0 to 130 | 0.426 | 20.0  |
| BD06623 | Sodium, Total          | mg/L  | 0.00274   | 0.0880   | 5.00  | 4.73    | 4.72    | 4.66     | 4.25 to 5.75       | 94.6 | 70.0 to 130 | 0.212 | 20.0  |
| BD06623 | Sulfate                | mg/L  | 0.416     | 2.0      | 20.0  | 21.0    | 20.5    | 20.3     | 18.0 to 22.0       | 105  | 80.0 to 120 | 2.41  | 20.0  |
| BD06622 | Thallium, Dissolved    | mg/L  | 0.0000007 | 0.000147 | 0.100 | 0.101   | 0.101   | 0.102    | 0.0850 to 0.115    | 101  | 70.0 to 130 | 0.00  | 20.0  |
| BD06623 | Thallium, Total        | mg/L  | 0.0000062 | 0.000147 | 0.100 | 0.101   | 0.101   | 0.102    | 0.0850 to 0.115    | 101  | 70.0 to 130 | 0.00  | 20.0  |
| BD06623 | Total Organic Carbon   | mg/L  | 0.0651    | 1.00     | 10.0  | 9.83    | 9.42    | 25.6     |                    | 98.3 | 80.0 to 120 | 4.26  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/3/23 09:42

**Customer ID:**

**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-8

**Laboratory ID Number:** BD06618

| Sample  | Analysis                  | Units      | MB     | MB Limit | Spike | MS   | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit   | Prec  | Prec Limit |
|---------|---------------------------|------------|--------|----------|-------|------|------------------|----------|----------------|-----|-------------|-------|------------|
| BD06618 | Alkalinity to pH 4.5      | mg CaCO3/L |        |          |       |      | 25.3             | 50.5     | 45.0 to 55.0   |     |             | 0.794 | 10.0       |
| BD06623 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.08   | 0.200    | 2.00  | 2.08 | 0.076            | 2.11     | 1.80 to 2.20   | 104 | 90.0 to 110 | 0.00  | 15.0       |
| BD06620 | Solids, Dissolved         | mg/L       | 0.0000 | 25.0     |       |      | 612              | 50.0     | 40.0 to 60.0   |     |             | 0.651 | 10.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-10

**Location Code:** WMWBARAP  
**Collected:** 4/3/23 12:42  
**Customer ID:**  
**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06619

| Name                                | Prepared     | Analyzed     | Vio Spec            | DF    | Results      | Units                               | MDL      | RL         | Q |
|-------------------------------------|--------------|--------------|---------------------|-------|--------------|-------------------------------------|----------|------------|---|
| <b>Analytical Method: EPA 200.7</b> |              |              | <b>Analyst: ABB</b> |       |              | <b>Preparation Method: EPA 1638</b> |          |            |   |
| * Boron, Total                      | 4/6/23 06:51 | 4/6/23 12:44 |                     | 1.015 | 2.22         | mg/L                                | 0.030000 | 0.1015     |   |
| * Calcium, Total                    | 4/6/23 06:51 | 4/6/23 13:44 |                     | 101.5 | 48.8         | mg/L                                | 7.0035   | 40.6       |   |
| * Iron, Total                       | 4/6/23 06:51 | 4/6/23 13:44 |                     | 101.5 | 70.7         | mg/L                                | 0.8120   | 4.06       |   |
| * Lithium, Total                    | 4/6/23 06:51 | 4/6/23 12:44 |                     | 1.015 | Not Detected | mg/L                                | 0.007105 | 0.01999956 | U |
| * Magnesium, Total                  | 4/6/23 06:51 | 4/6/23 12:44 |                     | 1.015 | 14.4         | mg/L                                | 0.021315 | 0.406      |   |
| * Molybdenum, Total                 | 4/6/23 06:51 | 4/6/23 12:44 |                     | 1.015 | Not Detected | mg/L                                | 0.005075 | 0.01015    | U |
| * Silica, Total (calc.)             | 4/6/23 06:51 | 4/6/23 12:44 |                     | 1     | 25.0         | mg/L                                |          |            |   |
| * Silicon, Total                    | 4/6/23 06:51 | 4/6/23 12:44 |                     | 1.015 | 11.7         | mg/L                                | 0.02030  | 0.25375    |   |
| * Sodium, Total                     | 4/6/23 06:51 | 4/6/23 12:44 |                     | 1.015 | 23.6         | mg/L                                | 0.04060  | 0.406      |   |
| <b>Analytical Method: EPA 200.7</b> |              |              | <b>Analyst: ABB</b> |       |              |                                     |          |            |   |
| * Boron, Dissolved                  | 4/6/23 09:44 | 4/7/23 12:14 |                     | 1.015 | 2.23         | mg/L                                | 0.030000 | 0.1015     |   |
| * Calcium, Dissolved                | 4/6/23 09:44 | 4/7/23 13:11 |                     | 101.5 | 46.2         | mg/L                                | 7.0035   | 40.6       |   |
| * Iron, Dissolved                   | 4/6/23 09:44 | 4/7/23 13:11 |                     | 101.5 | 72.5         | mg/L                                | 0.8120   | 4.06       |   |
| * Lithium, Dissolved                | 4/6/23 09:44 | 4/7/23 12:14 |                     | 1.015 | Not Detected | mg/L                                | 0.007105 | 0.01999956 | U |
| * Magnesium, Dissolved              | 4/6/23 09:44 | 4/7/23 12:14 |                     | 1.015 | 14.8         | mg/L                                | 0.021315 | 0.406      |   |
| * Molybdenum, Dissolved             | 4/6/23 09:44 | 4/7/23 12:14 |                     | 1.015 | Not Detected | mg/L                                | 0.005075 | 0.01015    | U |
| * Silica, Dissolved (calc.)         | 4/6/23 09:44 | 4/7/23 12:14 |                     | 1     | 25.0         | mg/L                                |          |            |   |
| * Silicon, Dissolved                | 4/6/23 09:44 | 4/7/23 12:14 |                     | 1.015 | 11.7         | mg/L                                | 0.02030  | 0.25375    |   |
| * Sodium, Dissolved                 | 4/6/23 09:44 | 4/7/23 12:14 |                     | 1.015 | 23.9         | mg/L                                | 0.04060  | 0.406      |   |
| <b>Analytical Method: EPA 200.8</b> |              |              | <b>Analyst: DLJ</b> |       |              | <b>Preparation Method: EPA 1638</b> |          |            |   |
| * Antimony, Total                   | 4/6/23 06:51 | 4/7/23 12:43 |                     | 1.015 | Not Detected | mg/L                                | 0.000710 | 0.001015   | U |
| * Aluminum, Total                   | 4/6/23 06:51 | 4/7/23 12:43 |                     | 1.015 | Not Detected | mg/L                                | 0.009135 | 0.05075    | U |
| * Arsenic, Total                    | 4/6/23 06:51 | 4/7/23 12:43 |                     | 1.015 | 0.0561       | mg/L                                | 0.000112 | 0.000203   |   |
| * Barium, Total                     | 4/6/23 06:51 | 4/7/23 12:43 |                     | 1.015 | 0.0628       | mg/L                                | 0.000508 | 0.001015   |   |
| * Beryllium, Total                  | 4/6/23 06:51 | 4/7/23 12:43 |                     | 1.015 | Not Detected | mg/L                                | 0.000406 | 0.001015   | U |
| * Cadmium, Total                    | 4/6/23 06:51 | 4/7/23 12:43 |                     | 1.015 | Not Detected | mg/L                                | 0.000068 | 0.000203   | U |
| * Chromium, Total                   | 4/6/23 06:51 | 4/7/23 12:43 |                     | 1.015 | 0.000660     | mg/L                                | 0.000203 | 0.001015   | J |
| * Cobalt, Total                     | 4/6/23 06:51 | 4/7/23 12:43 |                     | 1.015 | 0.000622     | mg/L                                | 0.000068 | 0.000203   |   |
| * Lead, Total                       | 4/6/23 06:51 | 4/7/23 12:43 |                     | 1.015 | Not Detected | mg/L                                | 0.000068 | 0.000203   | U |
| * Manganese, Total                  | 4/6/23 06:51 | 4/7/23 12:43 |                     | 1.015 | 1.18         | mg/L                                | 0.000152 | 0.001015   |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-10

**Location Code:** WMWBARAP  
**Collected:** 4/3/23 12:42  
**Customer ID:**  
**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06619

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/6/23 06:51  | 4/7/23 12:43        |          | 1.015 | 1.70         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/6/23 06:51  | 4/7/23 12:43        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/6/23 06:51  | 4/7/23 12:43        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/6/23 09:44  | 4/6/23 12:17        |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/6/23 09:44  | 4/6/23 12:17        |          | 1.015 | Not Detected | mg/L       | 0.009135 | 0.05075  | U |
| * Arsenic, Dissolved                   | 4/6/23 09:44  | 4/6/23 12:17        |          | 1.015 | 0.0647       | mg/L       | 0.000112 | 0.000203 |   |
| * Barium, Dissolved                    | 4/6/23 09:44  | 4/6/23 12:17        |          | 1.015 | 0.0684       | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/6/23 09:44  | 4/6/23 12:17        |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/6/23 09:44  | 4/6/23 12:17        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/6/23 09:44  | 4/6/23 12:17        |          | 1.015 | 0.000727     | mg/L       | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved                    | 4/6/23 09:44  | 4/6/23 12:17        |          | 1.015 | 0.000699     | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/6/23 09:44  | 4/6/23 12:17        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/6/23 09:44  | 4/6/23 12:17        |          | 1.015 | 1.21         | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/6/23 09:44  | 4/6/23 12:17        |          | 1.015 | 1.79         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/6/23 09:44  | 4/6/23 12:17        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/6/23 09:44  | 4/6/23 12:17        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/11/23 18:35 | 4/11/23 23:48       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/6/23 09:28  | 4/6/23 09:28        |          | 1     | 0.230        | mg/L as N  | 0.20     | 0.3      | J |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/17/23 10:54 | 4/17/23 12:30       |          | 1     | 234          | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/6/23 10:55  | 4/7/23 12:30        |          | 1     | 370          | mg/L       |          | 25       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/17/23 10:54 | 4/17/23 12:30       |          | 1     | 234          | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 4/17/23 10:54 | 4/17/23 12:30       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/5/23 19:12  | 4/5/23 19:12        |          | 1     | 11.4         | mg/L       | 1.00     | 2        |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-10

**Location Code:** WMWBARAP  
**Collected:** 4/3/23 12:42  
**Customer ID:**  
**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06619

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results      | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|--------------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: CES</b> |          |    |              |       |      |       |    |
| * Chloride                                   | 4/12/23 11:42 | 4/12/23 11:42       |          | 4  | 29.7         | mg/L  | 2.00 | 2     |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: CES</b> |          |    |              |       |      |       |    |
| * Fluoride                                   | 4/13/23 10:55 | 4/13/23 10:55       |          | 1  | Not Detected | mg/L  | 0.06 | 0.125 | U  |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |              |       |      |       |    |
| * Sulfate                                    | 4/6/23 10:48  | 4/6/23 10:48        |          | 1  | 15.0         | mg/L  | 0.6  | 2     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: DKG</b> |          |    |              |       |      |       |    |
| Conductivity                                 | 4/3/23 12:39  | 4/3/23 12:39        |          |    | 644.19       | uS/cm |      |       | FA |
| pH   | 4/3/23 12:39  | 4/3/23 12:39        |          |    | 6.05         | SU    |      |       | FA |
| Temperature                                  | 4/3/23 12:39  | 4/3/23 12:39        |          |    | 21.82        | C     |      |       | FA |
| Turbidity                                    | 4/3/23 12:39  | 4/3/23 12:39        |          |    | 2.92         | NTU   |      |       | FA |
| Sulfide                                      | 4/3/23 12:39  | 4/3/23 12:39        |          |    | 0            | mg/L  |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/3/23 12:42  
**Customer ID:**  
**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-10

**Laboratory ID Number:** BD06619

| Sample  | Analysis             | Units | MB         | MB       |       |        |        | Standard |                 | Rec  |             | Prec  | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
|         |                      |       |            | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec  | Limit       |       |       |
| BD06622 | Aluminum, Dissolved  | mg/L  | -0.000829  | 0.0198   | 0.100 | 0.102  | 0.102  | 0.103    | 0.0850 to 0.115 | 102  | 70.0 to 130 | 0.00  | 20.0  |
| BD06623 | Aluminum, Total      | mg/L  | 0.000464   | 0.0198   | 0.100 | 0.102  | 0.0992 | 0.103    | 0.0850 to 0.115 | 102  | 70.0 to 130 | 2.78  | 20.0  |
| BD06622 | Antimony, Dissolved  | mg/L  | 0.000282   | 0.00100  | 0.100 | 0.106  | 0.103  | 0.105    | 0.0850 to 0.115 | 106  | 70.0 to 130 | 2.87  | 20.0  |
| BD06623 | Antimony, Total      | mg/L  | 0.000260   | 0.00100  | 0.100 | 0.0952 | 0.0937 | 0.0922   | 0.0850 to 0.115 | 95.2 | 70.0 to 130 | 1.59  | 20.0  |
| BD06622 | Arsenic, Dissolved   | mg/L  | 0.0000293  | 0.000200 | 0.100 | 0.127  | 0.128  | 0.108    | 0.0850 to 0.115 | 110  | 70.0 to 130 | 0.784 | 20.0  |
| BD06623 | Arsenic, Total       | mg/L  | 0.0000185  | 0.000200 | 0.100 | 0.0990 | 0.0984 | 0.101    | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 0.608 | 20.0  |
| BD06622 | Barium, Dissolved    | mg/L  | 0.0000004  | 0.00100  | 0.100 | 0.231  | 0.234  | 0.104    | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 1.29  | 20.0  |
| BD06623 | Barium, Total        | mg/L  | 0.0000235  | 0.00100  | 0.100 | 0.0962 | 0.0934 | 0.0935   | 0.0850 to 0.115 | 96.2 | 70.0 to 130 | 2.95  | 20.0  |
| BD06622 | Beryllium, Dissolved | mg/L  | 0.0000122  | 0.000880 | 0.100 | 0.0999 | 0.0987 | 0.0962   | 0.0850 to 0.115 | 99.9 | 70.0 to 130 | 1.21  | 20.0  |
| BD06623 | Beryllium, Total     | mg/L  | 0.0000089  | 0.000880 | 0.100 | 0.0937 | 0.0937 | 0.0982   | 0.0850 to 0.115 | 93.7 | 70.0 to 130 | 0.00  | 20.0  |
| BD06622 | Boron, Dissolved     | mg/L  | 0.000167   | 0.0650   | 1.00  | 2.70   | 2.69   | 1.01     | 0.850 to 1.15   | 102  | 70.0 to 130 | 0.371 | 20.0  |
| BD06623 | Boron, Total         | mg/L  | -0.00119   | 0.0650   | 1.00  | 0.992  | 0.982  | 0.989    | 0.850 to 1.15   | 99.2 | 70.0 to 130 | 1.01  | 20.0  |
| BD06622 | Cadmium, Dissolved   | mg/L  | 0.0000050  | 0.000147 | 0.100 | 0.103  | 0.109  | 0.111    | 0.0850 to 0.115 | 103  | 70.0 to 130 | 5.66  | 20.0  |
| BD06623 | Cadmium, Total       | mg/L  | 0.0000000  | 0.000147 | 0.100 | 0.0989 | 0.0992 | 0.0971   | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 0.303 | 20.0  |
| BD06622 | Calcium, Dissolved   | mg/L  | -0.0141    | 0.152    | 5.00  | 38.0   | 37.8   | 4.92     | 4.25 to 5.75    | 96.0 | 70.0 to 130 | 0.528 | 20.0  |
| BD06623 | Calcium, Total       | mg/L  | 0.00187    | 0.152    | 5.00  | 4.77   | 4.82   | 4.92     | 4.25 to 5.75    | 95.4 | 70.0 to 130 | 1.04  | 20.0  |
| BD06622 | Chloride             | mg/L  | 0.0211     | 1.00     | 10.0  | 26.7   | 26.9   | 10.3     | 9.00 to 11.0    | 87.0 | 80.0 to 120 | 0.746 | 20.0  |
| BD06622 | Chromium, Dissolved  | mg/L  | -0.0000464 | 0.000440 | 0.100 | 0.105  | 0.106  | 0.111    | 0.0850 to 0.115 | 104  | 70.0 to 130 | 0.948 | 20.0  |
| BD06623 | Chromium, Total      | mg/L  | 0.0000577  | 0.000440 | 0.100 | 0.100  | 0.0988 | 0.0984   | 0.0850 to 0.115 | 100  | 70.0 to 130 | 1.21  | 20.0  |
| BD06622 | Cobalt, Dissolved    | mg/L  | -0.0000057 | 0.000147 | 0.100 | 0.108  | 0.107  | 0.110    | 0.0850 to 0.115 | 107  | 70.0 to 130 | 0.930 | 20.0  |
| BD06623 | Cobalt, Total        | mg/L  | -0.0000008 | 0.000147 | 0.100 | 0.103  | 0.101  | 0.101    | 0.0850 to 0.115 | 103  | 70.0 to 130 | 1.96  | 20.0  |
| BD06623 | Fluoride             | mg/L  | 0.00185    | 0.125    | 2.50  | 2.65   | 2.62   | 2.62     | 2.25 to 2.75    | 106  | 80.0 to 120 | 1.14  | 20.0  |
| BD06622 | Iron, Dissolved      | mg/L  | -0.000107  | 0.0176   | 0.2   | 93.2   | 93.5   | 0.202    | 0.170 to 0.230  | 100  | 70.0 to 130 | 0.321 | 20.0  |
| BD06623 | Iron, Total          | mg/L  | -0.000067  | 0.0176   | 0.2   | 0.197  | 0.193  | 0.194    | 0.170 to 0.230  | 98.5 | 70.0 to 130 | 2.05  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/3/23 12:42  
**Customer ID:**  
**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-10

**Laboratory ID Number:** BD06619

| Sample  | Analysis               | Units | MB        |          | Spike | MS      | MSD     | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB        | Limit    |       |         |         | Standard | Limit              | Rec  | Limit       |       |       |
| BD06622 | Lead, Dissolved        | mg/L  | 0.0000188 | 0.000147 | 0.100 | 0.0986  | 0.0971  | 0.101    | 0.0850 to 0.115    | 98.6 | 70.0 to 130 | 1.53  | 20.0  |
| BD06623 | Lead, Total            | mg/L  | 0.0000100 | 0.000147 | 0.100 | 0.0981  | 0.0971  | 0.0990   | 0.0850 to 0.115    | 98.1 | 70.0 to 130 | 1.02  | 20.0  |
| BD06622 | Lithium, Dissolved     | mg/L  | 0.000058  | 0.0154   | 0.200 | 0.206   | 0.207   | 0.197    | 0.170 to 0.230     | 103  | 70.0 to 130 | 0.484 | 20.0  |
| BD06623 | Lithium, Total         | mg/L  | 0.000883  | 0.0154   | 0.200 | 0.197   | 0.195   | 0.191    | 0.170 to 0.230     | 98.5 | 70.0 to 130 | 1.02  | 20.0  |
| BD06622 | Magnesium, Dissolved   | mg/L  | -0.00906  | 0.0462   | 5.00  | 17.0    | 17.0    | 4.92     | 4.25 to 5.75       | 96.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD06623 | Magnesium, Total       | mg/L  | -0.00266  | 0.0462   | 5.00  | 4.84    | 4.81    | 4.86     | 4.25 to 5.75       | 96.8 | 70.0 to 130 | 0.622 | 20.0  |
| BD06622 | Manganese, Dissolved   | mg/L  | 0.0000223 | 0.00033  | 0.100 | 1.87    | 1.84    | 0.102    | 0.0850 to 0.115    | 110  | 70.0 to 130 | 1.62  | 20.0  |
| BD06623 | Manganese, Total       | mg/L  | 0.0000173 | 0.00033  | 0.100 | 0.102   | 0.100   | 0.101    | 0.0850 to 0.115    | 102  | 70.0 to 130 | 1.98  | 20.0  |
| BD06623 | Mercury, Total by CVAA | mg/L  | 3.000E-05 | 0.000500 | 0.005 | 0.00388 | 0.00505 | 0.00409  | 0.00340 to 0.00460 | 77.6 | 70.0 to 130 | 26.2  | 20.0  |
| BD06622 | Molybdenum, Dissolved  | mg/L  | 0.000012  | 0.0100   | 0.2   | 0.204   | 0.203   | 0.203    | 0.170 to 0.230     | 102  | 70.0 to 130 | 0.491 | 20.0  |
| BD06623 | Molybdenum, Total      | mg/L  | 0.000     | 0.0100   | 0.2   | 0.199   | 0.197   | 0.199    | 0.170 to 0.230     | 99.5 | 70.0 to 130 | 1.01  | 20.0  |
| BD06622 | Potassium, Dissolved   | mg/L  | 0.0134    | 0.367    | 10.0  | 11.7    | 11.4    | 10.4     | 8.50 to 11.5       | 99.1 | 70.0 to 130 | 2.60  | 20.0  |
| BD06623 | Potassium, Total       | mg/L  | 0.0131    | 0.367    | 10.0  | 10.1    | 9.91    | 10.0     | 8.50 to 11.5       | 101  | 70.0 to 130 | 1.90  | 20.0  |
| BD06622 | Selenium, Dissolved    | mg/L  | 0.0000543 | 0.00100  | 0.100 | 0.112   | 0.114   | 0.109    | 0.0850 to 0.115    | 112  | 70.0 to 130 | 1.77  | 20.0  |
| BD06623 | Selenium, Total        | mg/L  | 0.000122  | 0.00100  | 0.100 | 0.101   | 0.100   | 0.103    | 0.0850 to 0.115    | 101  | 70.0 to 130 | 0.995 | 20.0  |
| BD06622 | Silicon, Dissolved     | mg/L  | 0.000048  | 0.0440   | 1.00  | 10.6    | 10.6    | 1.01     | 0.850 to 1.15      | 97.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD06623 | Silicon, Total         | mg/L  | 0.00174   | 0.0440   | 1.00  | 0.990   | 0.979   | 0.987    | 0.850 to 1.15      | 99.0 | 70.0 to 130 | 1.12  | 20.0  |
| BD06622 | Sodium, Dissolved      | mg/L  | -0.00120  | 0.0880   | 5.00  | 23.4    | 23.5    | 4.73     | 4.25 to 5.75       | 90.0 | 70.0 to 130 | 0.426 | 20.0  |
| BD06623 | Sodium, Total          | mg/L  | 0.00274   | 0.0880   | 5.00  | 4.73    | 4.72    | 4.66     | 4.25 to 5.75       | 94.6 | 70.0 to 130 | 0.212 | 20.0  |
| BD06623 | Sulfate                | mg/L  | 0.416     | 2.0      | 20.0  | 21.0    | 20.5    | 20.3     | 18.0 to 22.0       | 105  | 80.0 to 120 | 2.41  | 20.0  |
| BD06622 | Thallium, Dissolved    | mg/L  | 0.0000007 | 0.000147 | 0.100 | 0.101   | 0.101   | 0.102    | 0.0850 to 0.115    | 101  | 70.0 to 130 | 0.00  | 20.0  |
| BD06623 | Thallium, Total        | mg/L  | 0.0000062 | 0.000147 | 0.100 | 0.101   | 0.101   | 0.102    | 0.0850 to 0.115    | 101  | 70.0 to 130 | 0.00  | 20.0  |
| BD06623 | Total Organic Carbon   | mg/L  | 0.0651    | 1.00     | 10.0  | 9.83    | 9.42    | 25.6     |                    | 98.3 | 80.0 to 120 | 4.26  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/3/23 12:42

**Customer ID:**

**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-10

**Laboratory ID Number:** BD06619

| Sample  | Analysis                  | Units      | MB     | MB<br>Limit | Spike | MS   | Sample<br>Duplicate | Standard | Standard<br>Limit | Rec | Limit       | Prec  | Limit |
|---------|---------------------------|------------|--------|-------------|-------|------|---------------------|----------|-------------------|-----|-------------|-------|-------|
| BD06780 | Alkalinity to pH 4.5      | mg CaCO3/L |        |             |       |      | 147                 | 50.5     | 45.0 to 55.0      |     |             | 0.678 | 10.0  |
| BD06623 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.08   | 0.200       | 2.00  | 2.08 | 0.076               | 2.11     | 1.80 to 2.20      | 104 | 90.0 to 110 | 0.00  | 15.0  |
| BD06620 | Solids, Dissolved         | mg/L       | 0.0000 | 25.0        |       |      | 612                 | 50.0     | 40.0 to 60.0      |     |             | 0.651 | 10.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-8V

**Location Code:** WMWBARAP  
**Collected:** 4/3/23 15:40  
**Customer ID:**  
**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06620

| Name                                | Prepared     | Analyzed     | Vio Spec            | DF    | Results      | Units                               | MDL      | RL         | Q |
|-------------------------------------|--------------|--------------|---------------------|-------|--------------|-------------------------------------|----------|------------|---|
| <b>Analytical Method: EPA 200.7</b> |              |              | <b>Analyst: ABB</b> |       |              | <b>Preparation Method: EPA 1638</b> |          |            |   |
| * Boron, Total                      | 4/6/23 06:51 | 4/6/23 12:47 |                     | 1.015 | 0.245        | mg/L                                | 0.030000 | 0.1015     |   |
| * Calcium, Total                    | 4/6/23 06:51 | 4/6/23 12:47 |                     | 1.015 | 8.95         | mg/L                                | 0.070035 | 0.406      |   |
| * Iron, Total                       | 4/6/23 06:51 | 4/6/23 13:47 |                     | 10.15 | 12.9         | mg/L                                | 0.08120  | 0.406      |   |
| * Lithium, Total                    | 4/6/23 06:51 | 4/6/23 12:47 |                     | 1.015 | 0.00904      | mg/L                                | 0.007105 | 0.01999956 | J |
| * Magnesium, Total                  | 4/6/23 06:51 | 4/6/23 12:47 |                     | 1.015 | 5.17         | mg/L                                | 0.021315 | 0.406      |   |
| * Molybdenum, Total                 | 4/6/23 06:51 | 4/6/23 12:47 |                     | 1.015 | Not Detected | mg/L                                | 0.005075 | 0.01015    | U |
| * Silica, Total (calc.)             | 4/6/23 06:51 | 4/6/23 12:47 |                     | 1     | 18.0         | mg/L                                |          |            |   |
| * Silicon, Total                    | 4/6/23 06:51 | 4/6/23 12:47 |                     | 1.015 | 8.39         | mg/L                                | 0.02030  | 0.25375    |   |
| * Sodium, Total                     | 4/6/23 06:51 | 4/6/23 13:47 |                     | 10.15 | 215          | mg/L                                | 0.4060   | 4.06       |   |
| <b>Analytical Method: EPA 200.7</b> |              |              | <b>Analyst: ABB</b> |       |              |                                     |          |            |   |
| * Boron, Dissolved                  | 4/6/23 09:44 | 4/7/23 12:17 |                     | 1.015 | 0.249        | mg/L                                | 0.030000 | 0.1015     |   |
| * Calcium, Dissolved                | 4/6/23 09:44 | 4/7/23 12:17 |                     | 1.015 | 7.52         | mg/L                                | 0.070035 | 0.406      |   |
| * Iron, Dissolved                   | 4/6/23 09:44 | 4/7/23 13:14 |                     | 10.15 | 13.6         | mg/L                                | 0.08120  | 0.406      |   |
| * Lithium, Dissolved                | 4/6/23 09:44 | 4/7/23 12:17 |                     | 1.015 | 0.00830      | mg/L                                | 0.007105 | 0.01999956 | J |
| * Magnesium, Dissolved              | 4/6/23 09:44 | 4/7/23 12:17 |                     | 1.015 | 4.59         | mg/L                                | 0.021315 | 0.406      |   |
| * Molybdenum, Dissolved             | 4/6/23 09:44 | 4/7/23 12:17 |                     | 1.015 | Not Detected | mg/L                                | 0.005075 | 0.01015    | U |
| * Silica, Dissolved (calc.)         | 4/6/23 09:44 | 4/7/23 12:17 |                     | 1     | 17.6         | mg/L                                |          |            |   |
| * Silicon, Dissolved                | 4/6/23 09:44 | 4/7/23 12:17 |                     | 1.015 | 8.24         | mg/L                                | 0.02030  | 0.25375    |   |
| * Sodium, Dissolved                 | 4/6/23 09:44 | 4/7/23 13:14 |                     | 10.15 | 225          | mg/L                                | 0.4060   | 4.06       |   |
| <b>Analytical Method: EPA 200.8</b> |              |              | <b>Analyst: DLJ</b> |       |              | <b>Preparation Method: EPA 1638</b> |          |            |   |
| * Antimony, Total                   | 4/6/23 06:51 | 4/7/23 12:47 |                     | 1.015 | Not Detected | mg/L                                | 0.000710 | 0.001015   | U |
| * Aluminum, Total                   | 4/6/23 06:51 | 4/7/23 12:47 |                     | 1.015 | 0.127        | mg/L                                | 0.009135 | 0.05075    |   |
| * Arsenic, Total                    | 4/6/23 06:51 | 4/7/23 12:47 |                     | 1.015 | 0.000552     | mg/L                                | 0.000112 | 0.000203   |   |
| * Barium, Total                     | 4/6/23 06:51 | 4/7/23 12:47 |                     | 1.015 | 0.139        | mg/L                                | 0.000508 | 0.001015   |   |
| * Beryllium, Total                  | 4/6/23 06:51 | 4/7/23 12:47 |                     | 1.015 | Not Detected | mg/L                                | 0.000406 | 0.001015   | U |
| * Cadmium, Total                    | 4/6/23 06:51 | 4/7/23 12:47 |                     | 1.015 | Not Detected | mg/L                                | 0.000068 | 0.000203   | U |
| * Chromium, Total                   | 4/6/23 06:51 | 4/7/23 12:47 |                     | 1.015 | 0.000809     | mg/L                                | 0.000203 | 0.001015   | J |
| * Cobalt, Total                     | 4/6/23 06:51 | 4/7/23 12:47 |                     | 1.015 | 0.000362     | mg/L                                | 0.000068 | 0.000203   |   |
| * Lead, Total                       | 4/6/23 06:51 | 4/7/23 12:47 |                     | 1.015 | 0.000158     | mg/L                                | 0.000068 | 0.000203   | J |
| * Manganese, Total                  | 4/6/23 06:51 | 4/7/23 12:47 |                     | 1.015 | 0.176        | mg/L                                | 0.000152 | 0.001015   |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-8V

**Location Code:** WMWBARAP

**Collected:** 4/3/23 15:40

**Customer ID:**

**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06620

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/6/23 06:51  | 4/7/23 12:47        |          | 1.015 | 3.24         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/6/23 06:51  | 4/7/23 12:47        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/6/23 06:51  | 4/7/23 12:47        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/6/23 09:44  | 4/6/23 12:20        |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/6/23 09:44  | 4/6/23 12:20        |          | 1.015 | Not Detected | mg/L       | 0.009135 | 0.05075  | U |
| * Arsenic, Dissolved                   | 4/6/23 09:44  | 4/6/23 12:20        |          | 1.015 | 0.000444     | mg/L       | 0.000112 | 0.000203 |   |
| * Barium, Dissolved                    | 4/6/23 09:44  | 4/6/23 12:20        |          | 1.015 | 0.151        | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/6/23 09:44  | 4/6/23 12:20        |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/6/23 09:44  | 4/6/23 12:20        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/6/23 09:44  | 4/6/23 12:20        |          | 1.015 | 0.000369     | mg/L       | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved                    | 4/6/23 09:44  | 4/6/23 12:20        |          | 1.015 | 0.000226     | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/6/23 09:44  | 4/6/23 12:20        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/6/23 09:44  | 4/6/23 12:20        |          | 1.015 | 0.176        | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/6/23 09:44  | 4/6/23 12:20        |          | 1.015 | 3.39         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/6/23 09:44  | 4/6/23 12:20        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/6/23 09:44  | 4/6/23 12:20        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/11/23 18:35 | 4/11/23 23:52       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/6/23 09:30  | 4/6/23 09:30        |          | 1     | Not Detected | mg/L as N  | 0.20     | 0.3      | U |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/17/23 10:54 | 4/17/23 12:30       |          | 1     | 149          | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/6/23 10:55  | 4/7/23 12:30        |          | 1     | 616          | mg/L       |          | 50       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/17/23 10:54 | 4/17/23 12:30       |          | 1     | 149          | mg CaCO3/L |          | 1        | A |
| * Carbonate Alkalinity, (calc.)        | 4/17/23 10:54 | 4/17/23 12:30       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      | A |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/5/23 19:29  | 4/5/23 19:29        |          | 1     | 7.04         | mg/L       | 1.00     | 2        |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-8V

**Location Code:** WMWBARAP

**Collected:** 4/3/23 15:40

**Customer ID:**

**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06620

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results | Units | MDL   | RL    | Q  |
|--|---------------|---------------------|----------|----|---------|-------|-------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: CES</b> |          |    |         |       |       |       |    |
| * Chloride                                   | 4/12/23 11:40 | 4/12/23 11:40       |          | 20 | 279     | mg/L  | 10.00 | 10    |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: CES</b> |          |    |         |       |       |       |    |
| * Fluoride                                   | 4/13/23 10:56 | 4/13/23 10:56       |          | 1  | 0.212   | mg/L  | 0.06  | 0.125 |    |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |         |       |       |       |    |
| * Sulfate                                    | 4/6/23 10:49  | 4/6/23 10:49        |          | 1  | 21.7    | mg/L  | 0.6   | 2     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: DKG</b> |          |    |         |       |       |       |    |
| Conductivity                                 | 4/3/23 15:37  | 4/3/23 15:37        |          |    | 1142.75 | uS/cm |       |       | FA |
| pH   | 4/3/23 15:37  | 4/3/23 15:37        |          |    | 6.50    | SU    |       |       | FA |
| Temperature                                  | 4/3/23 15:37  | 4/3/23 15:37        |          |    | 21.45   | C     |       |       | FA |
| Turbidity                                    | 4/3/23 15:37  | 4/3/23 15:37        |          |    | 5.17    | NTU   |       |       | FA |
| Sulfide                                      | 4/3/23 15:37  | 4/3/23 15:37        |          |    | 0       | mg/L  |       |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/3/23 15:40  
**Customer ID:**  
**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-8V

**Laboratory ID Number:** BD06620

| Sample  | Analysis             | Units | MB         | MB       |       |        |        | Standard |                 | Rec  |             | Prec  | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
|         |                      |       |            | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec  | Limit       |       |       |
| BD06622 | Aluminum, Dissolved  | mg/L  | -0.000829  | 0.0198   | 0.100 | 0.102  | 0.102  | 0.103    | 0.0850 to 0.115 | 102  | 70.0 to 130 | 0.00  | 20.0  |
| BD06623 | Aluminum, Total      | mg/L  | 0.000464   | 0.0198   | 0.100 | 0.102  | 0.0992 | 0.103    | 0.0850 to 0.115 | 102  | 70.0 to 130 | 2.78  | 20.0  |
| BD06622 | Antimony, Dissolved  | mg/L  | 0.000282   | 0.00100  | 0.100 | 0.106  | 0.103  | 0.105    | 0.0850 to 0.115 | 106  | 70.0 to 130 | 2.87  | 20.0  |
| BD06623 | Antimony, Total      | mg/L  | 0.000260   | 0.00100  | 0.100 | 0.0952 | 0.0937 | 0.0922   | 0.0850 to 0.115 | 95.2 | 70.0 to 130 | 1.59  | 20.0  |
| BD06622 | Arsenic, Dissolved   | mg/L  | 0.0000293  | 0.000200 | 0.100 | 0.127  | 0.128  | 0.108    | 0.0850 to 0.115 | 110  | 70.0 to 130 | 0.784 | 20.0  |
| BD06623 | Arsenic, Total       | mg/L  | 0.0000185  | 0.000200 | 0.100 | 0.0990 | 0.0984 | 0.101    | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 0.608 | 20.0  |
| BD06622 | Barium, Dissolved    | mg/L  | 0.0000004  | 0.00100  | 0.100 | 0.231  | 0.234  | 0.104    | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 1.29  | 20.0  |
| BD06623 | Barium, Total        | mg/L  | 0.0000235  | 0.00100  | 0.100 | 0.0962 | 0.0934 | 0.0935   | 0.0850 to 0.115 | 96.2 | 70.0 to 130 | 2.95  | 20.0  |
| BD06622 | Beryllium, Dissolved | mg/L  | 0.0000122  | 0.000880 | 0.100 | 0.0999 | 0.0987 | 0.0962   | 0.0850 to 0.115 | 99.9 | 70.0 to 130 | 1.21  | 20.0  |
| BD06623 | Beryllium, Total     | mg/L  | 0.0000089  | 0.000880 | 0.100 | 0.0937 | 0.0937 | 0.0982   | 0.0850 to 0.115 | 93.7 | 70.0 to 130 | 0.00  | 20.0  |
| BD06622 | Boron, Dissolved     | mg/L  | 0.000167   | 0.0650   | 1.00  | 2.70   | 2.69   | 1.01     | 0.850 to 1.15   | 102  | 70.0 to 130 | 0.371 | 20.0  |
| BD06623 | Boron, Total         | mg/L  | -0.00119   | 0.0650   | 1.00  | 0.992  | 0.982  | 0.989    | 0.850 to 1.15   | 99.2 | 70.0 to 130 | 1.01  | 20.0  |
| BD06622 | Cadmium, Dissolved   | mg/L  | 0.0000050  | 0.000147 | 0.100 | 0.103  | 0.109  | 0.111    | 0.0850 to 0.115 | 103  | 70.0 to 130 | 5.66  | 20.0  |
| BD06623 | Cadmium, Total       | mg/L  | 0.0000000  | 0.000147 | 0.100 | 0.0989 | 0.0992 | 0.0971   | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 0.303 | 20.0  |
| BD06622 | Calcium, Dissolved   | mg/L  | -0.0141    | 0.152    | 5.00  | 38.0   | 37.8   | 4.92     | 4.25 to 5.75    | 96.0 | 70.0 to 130 | 0.528 | 20.0  |
| BD06623 | Calcium, Total       | mg/L  | 0.00187    | 0.152    | 5.00  | 4.77   | 4.82   | 4.92     | 4.25 to 5.75    | 95.4 | 70.0 to 130 | 1.04  | 20.0  |
| BD06622 | Chloride             | mg/L  | 0.0211     | 1.00     | 10.0  | 26.7   | 26.9   | 10.3     | 9.00 to 11.0    | 87.0 | 80.0 to 120 | 0.746 | 20.0  |
| BD06622 | Chromium, Dissolved  | mg/L  | -0.0000464 | 0.000440 | 0.100 | 0.105  | 0.106  | 0.111    | 0.0850 to 0.115 | 104  | 70.0 to 130 | 0.948 | 20.0  |
| BD06623 | Chromium, Total      | mg/L  | 0.0000577  | 0.000440 | 0.100 | 0.100  | 0.0988 | 0.0984   | 0.0850 to 0.115 | 100  | 70.0 to 130 | 1.21  | 20.0  |
| BD06622 | Cobalt, Dissolved    | mg/L  | -0.0000057 | 0.000147 | 0.100 | 0.108  | 0.107  | 0.110    | 0.0850 to 0.115 | 107  | 70.0 to 130 | 0.930 | 20.0  |
| BD06623 | Cobalt, Total        | mg/L  | -0.0000008 | 0.000147 | 0.100 | 0.103  | 0.101  | 0.101    | 0.0850 to 0.115 | 103  | 70.0 to 130 | 1.96  | 20.0  |
| BD06623 | Fluoride             | mg/L  | 0.00185    | 0.125    | 2.50  | 2.65   | 2.62   | 2.62     | 2.25 to 2.75    | 106  | 80.0 to 120 | 1.14  | 20.0  |
| BD06622 | Iron, Dissolved      | mg/L  | -0.000107  | 0.0176   | 0.2   | 93.2   | 93.5   | 0.202    | 0.170 to 0.230  | 100  | 70.0 to 130 | 0.321 | 20.0  |
| BD06623 | Iron, Total          | mg/L  | -0.000067  | 0.0176   | 0.2   | 0.197  | 0.193  | 0.194    | 0.170 to 0.230  | 98.5 | 70.0 to 130 | 2.05  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/3/23 15:40  
**Customer ID:**  
**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-8V

**Laboratory ID Number:** BD06620

| Sample  | Analysis               | Units | MB        |          | Spike | MS      | MSD     | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB        | Limit    |       |         |         | Standard | Limit              | Rec  | Limit       |       |       |
| BD06622 | Lead, Dissolved        | mg/L  | 0.0000188 | 0.000147 | 0.100 | 0.0986  | 0.0971  | 0.101    | 0.0850 to 0.115    | 98.6 | 70.0 to 130 | 1.53  | 20.0  |
| BD06623 | Lead, Total            | mg/L  | 0.0000100 | 0.000147 | 0.100 | 0.0981  | 0.0971  | 0.0990   | 0.0850 to 0.115    | 98.1 | 70.0 to 130 | 1.02  | 20.0  |
| BD06622 | Lithium, Dissolved     | mg/L  | 0.000058  | 0.0154   | 0.200 | 0.206   | 0.207   | 0.197    | 0.170 to 0.230     | 103  | 70.0 to 130 | 0.484 | 20.0  |
| BD06623 | Lithium, Total         | mg/L  | 0.000883  | 0.0154   | 0.200 | 0.197   | 0.195   | 0.191    | 0.170 to 0.230     | 98.5 | 70.0 to 130 | 1.02  | 20.0  |
| BD06622 | Magnesium, Dissolved   | mg/L  | -0.00906  | 0.0462   | 5.00  | 17.0    | 17.0    | 4.92     | 4.25 to 5.75       | 96.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD06623 | Magnesium, Total       | mg/L  | -0.00266  | 0.0462   | 5.00  | 4.84    | 4.81    | 4.86     | 4.25 to 5.75       | 96.8 | 70.0 to 130 | 0.622 | 20.0  |
| BD06622 | Manganese, Dissolved   | mg/L  | 0.0000223 | 0.00033  | 0.100 | 1.87    | 1.84    | 0.102    | 0.0850 to 0.115    | 110  | 70.0 to 130 | 1.62  | 20.0  |
| BD06623 | Manganese, Total       | mg/L  | 0.0000173 | 0.00033  | 0.100 | 0.102   | 0.100   | 0.101    | 0.0850 to 0.115    | 102  | 70.0 to 130 | 1.98  | 20.0  |
| BD06623 | Mercury, Total by CVAA | mg/L  | 3.000E-05 | 0.000500 | 0.005 | 0.00388 | 0.00505 | 0.00409  | 0.00340 to 0.00460 | 77.6 | 70.0 to 130 | 26.2  | 20.0  |
| BD06622 | Molybdenum, Dissolved  | mg/L  | 0.000012  | 0.0100   | 0.2   | 0.204   | 0.203   | 0.203    | 0.170 to 0.230     | 102  | 70.0 to 130 | 0.491 | 20.0  |
| BD06623 | Molybdenum, Total      | mg/L  | 0.000     | 0.0100   | 0.2   | 0.199   | 0.197   | 0.199    | 0.170 to 0.230     | 99.5 | 70.0 to 130 | 1.01  | 20.0  |
| BD06622 | Potassium, Dissolved   | mg/L  | 0.0134    | 0.367    | 10.0  | 11.7    | 11.4    | 10.4     | 8.50 to 11.5       | 99.1 | 70.0 to 130 | 2.60  | 20.0  |
| BD06623 | Potassium, Total       | mg/L  | 0.0131    | 0.367    | 10.0  | 10.1    | 9.91    | 10.0     | 8.50 to 11.5       | 101  | 70.0 to 130 | 1.90  | 20.0  |
| BD06622 | Selenium, Dissolved    | mg/L  | 0.0000543 | 0.00100  | 0.100 | 0.112   | 0.114   | 0.109    | 0.0850 to 0.115    | 112  | 70.0 to 130 | 1.77  | 20.0  |
| BD06623 | Selenium, Total        | mg/L  | 0.000122  | 0.00100  | 0.100 | 0.101   | 0.100   | 0.103    | 0.0850 to 0.115    | 101  | 70.0 to 130 | 0.995 | 20.0  |
| BD06622 | Silicon, Dissolved     | mg/L  | 0.000048  | 0.0440   | 1.00  | 10.6    | 10.6    | 1.01     | 0.850 to 1.15      | 97.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD06623 | Silicon, Total         | mg/L  | 0.00174   | 0.0440   | 1.00  | 0.990   | 0.979   | 0.987    | 0.850 to 1.15      | 99.0 | 70.0 to 130 | 1.12  | 20.0  |
| BD06622 | Sodium, Dissolved      | mg/L  | -0.00120  | 0.0880   | 5.00  | 23.4    | 23.5    | 4.73     | 4.25 to 5.75       | 90.0 | 70.0 to 130 | 0.426 | 20.0  |
| BD06623 | Sodium, Total          | mg/L  | 0.00274   | 0.0880   | 5.00  | 4.73    | 4.72    | 4.66     | 4.25 to 5.75       | 94.6 | 70.0 to 130 | 0.212 | 20.0  |
| BD06623 | Sulfate                | mg/L  | 0.416     | 2.0      | 20.0  | 21.0    | 20.5    | 20.3     | 18.0 to 22.0       | 105  | 80.0 to 120 | 2.41  | 20.0  |
| BD06622 | Thallium, Dissolved    | mg/L  | 0.0000007 | 0.000147 | 0.100 | 0.101   | 0.101   | 0.102    | 0.0850 to 0.115    | 101  | 70.0 to 130 | 0.00  | 20.0  |
| BD06623 | Thallium, Total        | mg/L  | 0.0000062 | 0.000147 | 0.100 | 0.101   | 0.101   | 0.102    | 0.0850 to 0.115    | 101  | 70.0 to 130 | 0.00  | 20.0  |
| BD06623 | Total Organic Carbon   | mg/L  | 0.0651    | 1.00     | 10.0  | 9.83    | 9.42    | 25.6     |                    | 98.3 | 80.0 to 120 | 4.26  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/3/23 15:40

**Customer ID:**

**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-8V

**Laboratory ID Number:** BD06620

| Sample  | Analysis                  | Units      | MB     | MB Limit | Spike | MS   | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit   | Prec  | Prec Limit |
|---------|---------------------------|------------|--------|----------|-------|------|------------------|----------|----------------|-----|-------------|-------|------------|
| BD06780 | Alkalinity to pH 4.5      | mg CaCO3/L |        |          |       |      | 147              | 50.5     | 45.0 to 55.0   |     |             | 0.678 | 10.0       |
| BD06623 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.08   | 0.200    | 2.00  | 2.08 | 0.076            | 2.11     | 1.80 to 2.20   | 104 | 90.0 to 110 | 0.00  | 15.0       |
| BD06620 | Solids, Dissolved         | mg/L       | 0.0000 | 25.0     |       |      | 612              | 50.0     | 40.0 to 60.0   |     |             | 0.651 | 10.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-9

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 08:47  
**Customer ID:**  
**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06621

| Name                                | Prepared     | Analyzed     | Vio Spec            | DF    | Results                             | Units | MDL      | RL         | Q |
|-------------------------------------|--------------|--------------|---------------------|-------|-------------------------------------|-------|----------|------------|---|
| <b>Analytical Method: EPA 200.7</b> |              |              | <b>Analyst: ABB</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Boron, Total                      | 4/6/23 06:51 | 4/6/23 12:50 |                     | 1.015 | 1.65                                | mg/L  | 0.030000 | 0.1015     |   |
| * Calcium, Total                    | 4/6/23 06:51 | 4/6/23 12:50 |                     | 1.015 | 32.4                                | mg/L  | 0.070035 | 0.406      |   |
| * Iron, Total                       | 4/6/23 06:51 | 4/6/23 13:57 |                     | 101.5 | 91.2                                | mg/L  | 0.8120   | 4.06       |   |
| * Lithium, Total                    | 4/6/23 06:51 | 4/6/23 12:50 |                     | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |
| * Magnesium, Total                  | 4/6/23 06:51 | 4/6/23 12:50 |                     | 1.015 | 12.0                                | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Total                 | 4/6/23 06:51 | 4/6/23 12:50 |                     | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Total (calc.)             | 4/6/23 06:51 | 4/6/23 12:50 |                     | 1     | 20.4                                | mg/L  |          |            |   |
| * Silicon, Total                    | 4/6/23 06:51 | 4/6/23 12:50 |                     | 1.015 | 9.53                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Total                     | 4/6/23 06:51 | 4/6/23 12:50 |                     | 1.015 | 18.7                                | mg/L  | 0.04060  | 0.406      |   |
| <b>Analytical Method: EPA 200.7</b> |              |              | <b>Analyst: ABB</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Boron, Dissolved                  | 4/6/23 09:44 | 4/7/23 12:20 |                     | 1.015 | 1.68                                | mg/L  | 0.030000 | 0.1015     |   |
| * Calcium, Dissolved                | 4/6/23 09:44 | 4/7/23 12:20 |                     | 1.015 | 33.1                                | mg/L  | 0.070035 | 0.406      |   |
| * Iron, Dissolved                   | 4/6/23 09:44 | 4/7/23 13:24 |                     | 101.5 | 93.9                                | mg/L  | 0.8120   | 4.06       |   |
| * Lithium, Dissolved                | 4/6/23 09:44 | 4/7/23 12:20 |                     | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |
| * Magnesium, Dissolved              | 4/6/23 09:44 | 4/7/23 12:20 |                     | 1.015 | 12.1                                | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Dissolved             | 4/6/23 09:44 | 4/7/23 12:20 |                     | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Dissolved (calc.)         | 4/6/23 09:44 | 4/7/23 12:20 |                     | 1     | 20.6                                | mg/L  |          |            |   |
| * Silicon, Dissolved                | 4/6/23 09:44 | 4/7/23 12:20 |                     | 1.015 | 9.62                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Dissolved                 | 4/6/23 09:44 | 4/7/23 12:20 |                     | 1.015 | 18.8                                | mg/L  | 0.04060  | 0.406      |   |
| <b>Analytical Method: EPA 200.8</b> |              |              | <b>Analyst: DLJ</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Antimony, Total                   | 4/6/23 06:51 | 4/7/23 12:51 |                     | 1.015 | Not Detected                        | mg/L  | 0.000710 | 0.001015   | U |
| * Aluminum, Total                   | 4/6/23 06:51 | 4/7/23 12:51 |                     | 1.015 | Not Detected                        | mg/L  | 0.009135 | 0.05075    | U |
| * Arsenic, Total                    | 4/6/23 06:51 | 4/7/23 12:51 |                     | 1.015 | 0.0145                              | mg/L  | 0.000112 | 0.000203   |   |
| * Barium, Total                     | 4/6/23 06:51 | 4/7/23 12:51 |                     | 1.015 | 0.128                               | mg/L  | 0.000508 | 0.001015   |   |
| * Beryllium, Total                  | 4/6/23 06:51 | 4/7/23 12:51 |                     | 1.015 | Not Detected                        | mg/L  | 0.000406 | 0.001015   | U |
| * Cadmium, Total                    | 4/6/23 06:51 | 4/7/23 12:51 |                     | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |
| * Chromium, Total                   | 4/6/23 06:51 | 4/7/23 12:51 |                     | 1.015 | 0.000620                            | mg/L  | 0.000203 | 0.001015   | J |
| * Cobalt, Total                     | 4/6/23 06:51 | 4/7/23 12:51 |                     | 1.015 | 0.000737                            | mg/L  | 0.000068 | 0.000203   |   |
| * Lead, Total                       | 4/6/23 06:51 | 4/7/23 12:51 |                     | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |
| * Manganese, Total                  | 4/6/23 06:51 | 4/7/23 19:30 |                     | 5.075 | 1.78                                | mg/L  | 0.000761 | 0.005075   |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-9

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 08:47  
**Customer ID:**  
**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06621

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/6/23 06:51  | 4/7/23 12:51        |          | 1.015 | 1.77         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/6/23 06:51  | 4/7/23 12:51        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/6/23 06:51  | 4/7/23 12:51        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/6/23 09:44  | 4/6/23 12:24        |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/6/23 09:44  | 4/6/23 12:24        |          | 1.015 | Not Detected | mg/L       | 0.009135 | 0.05075  | U |
| * Arsenic, Dissolved                   | 4/6/23 09:44  | 4/6/23 12:24        |          | 1.015 | 0.0157       | mg/L       | 0.000112 | 0.000203 |   |
| * Barium, Dissolved                    | 4/6/23 09:44  | 4/6/23 12:24        |          | 1.015 | 0.127        | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/6/23 09:44  | 4/6/23 12:24        |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/6/23 09:44  | 4/6/23 12:24        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/6/23 09:44  | 4/6/23 12:24        |          | 1.015 | 0.000525     | mg/L       | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved                    | 4/6/23 09:44  | 4/6/23 12:24        |          | 1.015 | 0.000716     | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/6/23 09:44  | 4/6/23 12:24        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/6/23 09:44  | 4/7/23 19:05        |          | 5.075 | 1.74         | mg/L       | 0.000761 | 0.005075 |   |
| * Potassium, Dissolved                 | 4/6/23 09:44  | 4/6/23 12:24        |          | 1.015 | 1.71         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/6/23 09:44  | 4/6/23 12:24        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/6/23 09:44  | 4/6/23 12:24        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/11/23 18:35 | 4/11/23 23:55       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/6/23 09:31  | 4/6/23 09:31        |          | 1     | 0.297        | mg/L as N  | 0.20     | 0.3      | J |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/17/23 10:54 | 4/17/23 14:05       |          | 1     | 195          | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/7/23 10:42  | 4/10/23 13:50       |          | 1     | 317          | mg/L       |          | 25       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/17/23 10:54 | 4/17/23 14:05       |          | 1     | 195          | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 4/17/23 10:54 | 4/17/23 14:05       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/5/23 19:43  | 4/5/23 19:43        |          | 1     | 12.1         | mg/L       | 1.00     | 2        |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-9

**Location Code:** WMWBARAP

**Collected:** 4/4/23 08:47

**Customer ID:**

**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06621

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Chloride                                   | 4/12/23 11:31 | 4/12/23 11:31       |          | 1  | 18.0    | mg/L  | 0.50 | 0.5   |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Fluoride                                   | 4/13/23 10:57 | 4/13/23 10:57       |          | 1  | 0.0797  | mg/L  | 0.06 | 0.125 | J  |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |         |       |      |       |    |
| * Sulfate                                    | 4/6/23 10:50  | 4/6/23 10:50        |          | 1  | 25.3    | mg/L  | 0.6  | 2     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: DKG</b> |          |    |         |       |      |       |    |
| Conductivity                                 | 4/4/23 08:44  | 4/4/23 08:44        |          |    | 557.93  | uS/cm |      |       | FA |
| pH   | 4/4/23 08:44  | 4/4/23 08:44        |          |    | 6.15    | SU    |      |       | FA |
| Temperature                                  | 4/4/23 08:44  | 4/4/23 08:44        |          |    | 21.55   | C     |      |       | FA |
| Turbidity                                    | 4/4/23 08:44  | 4/4/23 08:44        |          |    | 3.66    | NTU   |      |       | FA |
| Sulfide                                      | 4/4/23 08:44  | 4/4/23 08:44        |          |    | 0       | mg/L  |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/4/23 08:47  
**Customer ID:**  
**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-9

**Laboratory ID Number:** BD06621

| Sample  | Analysis             | Units | MB         | MB       |       |        |        | Standard |                 | Rec  |             | Prec  | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
|         |                      |       |            | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec  | Limit       |       |       |
| BD06622 | Aluminum, Dissolved  | mg/L  | -0.000829  | 0.0198   | 0.100 | 0.102  | 0.102  | 0.103    | 0.0850 to 0.115 | 102  | 70.0 to 130 | 0.00  | 20.0  |
| BD06623 | Aluminum, Total      | mg/L  | 0.000464   | 0.0198   | 0.100 | 0.102  | 0.0992 | 0.103    | 0.0850 to 0.115 | 102  | 70.0 to 130 | 2.78  | 20.0  |
| BD06622 | Antimony, Dissolved  | mg/L  | 0.000282   | 0.00100  | 0.100 | 0.106  | 0.103  | 0.105    | 0.0850 to 0.115 | 106  | 70.0 to 130 | 2.87  | 20.0  |
| BD06623 | Antimony, Total      | mg/L  | 0.000260   | 0.00100  | 0.100 | 0.0952 | 0.0937 | 0.0922   | 0.0850 to 0.115 | 95.2 | 70.0 to 130 | 1.59  | 20.0  |
| BD06622 | Arsenic, Dissolved   | mg/L  | 0.0000293  | 0.000200 | 0.100 | 0.127  | 0.128  | 0.108    | 0.0850 to 0.115 | 110  | 70.0 to 130 | 0.784 | 20.0  |
| BD06623 | Arsenic, Total       | mg/L  | 0.0000185  | 0.000200 | 0.100 | 0.0990 | 0.0984 | 0.101    | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 0.608 | 20.0  |
| BD06622 | Barium, Dissolved    | mg/L  | 0.0000004  | 0.00100  | 0.100 | 0.231  | 0.234  | 0.104    | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 1.29  | 20.0  |
| BD06623 | Barium, Total        | mg/L  | 0.0000235  | 0.00100  | 0.100 | 0.0962 | 0.0934 | 0.0935   | 0.0850 to 0.115 | 96.2 | 70.0 to 130 | 2.95  | 20.0  |
| BD06622 | Beryllium, Dissolved | mg/L  | 0.0000122  | 0.000880 | 0.100 | 0.0999 | 0.0987 | 0.0962   | 0.0850 to 0.115 | 99.9 | 70.0 to 130 | 1.21  | 20.0  |
| BD06623 | Beryllium, Total     | mg/L  | 0.0000089  | 0.000880 | 0.100 | 0.0937 | 0.0937 | 0.0982   | 0.0850 to 0.115 | 93.7 | 70.0 to 130 | 0.00  | 20.0  |
| BD06622 | Boron, Dissolved     | mg/L  | 0.000167   | 0.0650   | 1.00  | 2.70   | 2.69   | 1.01     | 0.850 to 1.15   | 102  | 70.0 to 130 | 0.371 | 20.0  |
| BD06623 | Boron, Total         | mg/L  | -0.00119   | 0.0650   | 1.00  | 0.992  | 0.982  | 0.989    | 0.850 to 1.15   | 99.2 | 70.0 to 130 | 1.01  | 20.0  |
| BD06622 | Cadmium, Dissolved   | mg/L  | 0.0000050  | 0.000147 | 0.100 | 0.103  | 0.109  | 0.111    | 0.0850 to 0.115 | 103  | 70.0 to 130 | 5.66  | 20.0  |
| BD06623 | Cadmium, Total       | mg/L  | 0.0000000  | 0.000147 | 0.100 | 0.0989 | 0.0992 | 0.0971   | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 0.303 | 20.0  |
| BD06622 | Calcium, Dissolved   | mg/L  | -0.0141    | 0.152    | 5.00  | 38.0   | 37.8   | 4.92     | 4.25 to 5.75    | 96.0 | 70.0 to 130 | 0.528 | 20.0  |
| BD06623 | Calcium, Total       | mg/L  | 0.00187    | 0.152    | 5.00  | 4.77   | 4.82   | 4.92     | 4.25 to 5.75    | 95.4 | 70.0 to 130 | 1.04  | 20.0  |
| BD06622 | Chloride             | mg/L  | 0.0211     | 1.00     | 10.0  | 26.7   | 26.9   | 10.3     | 9.00 to 11.0    | 87.0 | 80.0 to 120 | 0.746 | 20.0  |
| BD06622 | Chromium, Dissolved  | mg/L  | -0.0000464 | 0.000440 | 0.100 | 0.105  | 0.106  | 0.111    | 0.0850 to 0.115 | 104  | 70.0 to 130 | 0.948 | 20.0  |
| BD06623 | Chromium, Total      | mg/L  | 0.0000577  | 0.000440 | 0.100 | 0.100  | 0.0988 | 0.0984   | 0.0850 to 0.115 | 100  | 70.0 to 130 | 1.21  | 20.0  |
| BD06622 | Cobalt, Dissolved    | mg/L  | -0.0000057 | 0.000147 | 0.100 | 0.108  | 0.107  | 0.110    | 0.0850 to 0.115 | 107  | 70.0 to 130 | 0.930 | 20.0  |
| BD06623 | Cobalt, Total        | mg/L  | -0.0000008 | 0.000147 | 0.100 | 0.103  | 0.101  | 0.101    | 0.0850 to 0.115 | 103  | 70.0 to 130 | 1.96  | 20.0  |
| BD06623 | Fluoride             | mg/L  | 0.00185    | 0.125    | 2.50  | 2.65   | 2.62   | 2.62     | 2.25 to 2.75    | 106  | 80.0 to 120 | 1.14  | 20.0  |
| BD06622 | Iron, Dissolved      | mg/L  | -0.000107  | 0.0176   | 0.2   | 93.2   | 93.5   | 0.202    | 0.170 to 0.230  | 100  | 70.0 to 130 | 0.321 | 20.0  |
| BD06623 | Iron, Total          | mg/L  | -0.000067  | 0.0176   | 0.2   | 0.197  | 0.193  | 0.194    | 0.170 to 0.230  | 98.5 | 70.0 to 130 | 2.05  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/4/23 08:47  
**Customer ID:**  
**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-9

**Laboratory ID Number:** BD06621

| Sample  | Analysis               | Units | MB        |          | Spike | MS      | MSD     | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB        | Limit    |       |         |         | Standard | Limit              | Rec  | Limit       |       |       |
| BD06622 | Lead, Dissolved        | mg/L  | 0.0000188 | 0.000147 | 0.100 | 0.0986  | 0.0971  | 0.101    | 0.0850 to 0.115    | 98.6 | 70.0 to 130 | 1.53  | 20.0  |
| BD06623 | Lead, Total            | mg/L  | 0.0000100 | 0.000147 | 0.100 | 0.0981  | 0.0971  | 0.0990   | 0.0850 to 0.115    | 98.1 | 70.0 to 130 | 1.02  | 20.0  |
| BD06622 | Lithium, Dissolved     | mg/L  | 0.000058  | 0.0154   | 0.200 | 0.206   | 0.207   | 0.197    | 0.170 to 0.230     | 103  | 70.0 to 130 | 0.484 | 20.0  |
| BD06623 | Lithium, Total         | mg/L  | 0.000883  | 0.0154   | 0.200 | 0.197   | 0.195   | 0.191    | 0.170 to 0.230     | 98.5 | 70.0 to 130 | 1.02  | 20.0  |
| BD06622 | Magnesium, Dissolved   | mg/L  | -0.00906  | 0.0462   | 5.00  | 17.0    | 17.0    | 4.92     | 4.25 to 5.75       | 96.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD06623 | Magnesium, Total       | mg/L  | -0.00266  | 0.0462   | 5.00  | 4.84    | 4.81    | 4.86     | 4.25 to 5.75       | 96.8 | 70.0 to 130 | 0.622 | 20.0  |
| BD06622 | Manganese, Dissolved   | mg/L  | 0.0000223 | 0.00033  | 0.100 | 1.87    | 1.84    | 0.102    | 0.0850 to 0.115    | 110  | 70.0 to 130 | 1.62  | 20.0  |
| BD06623 | Manganese, Total       | mg/L  | 0.0000173 | 0.00033  | 0.100 | 0.102   | 0.100   | 0.101    | 0.0850 to 0.115    | 102  | 70.0 to 130 | 1.98  | 20.0  |
| BD06623 | Mercury, Total by CVAA | mg/L  | 3.000E-05 | 0.000500 | 0.005 | 0.00388 | 0.00505 | 0.00409  | 0.00340 to 0.00460 | 77.6 | 70.0 to 130 | 26.2  | 20.0  |
| BD06622 | Molybdenum, Dissolved  | mg/L  | 0.000012  | 0.0100   | 0.2   | 0.204   | 0.203   | 0.203    | 0.170 to 0.230     | 102  | 70.0 to 130 | 0.491 | 20.0  |
| BD06623 | Molybdenum, Total      | mg/L  | 0.000     | 0.0100   | 0.2   | 0.199   | 0.197   | 0.199    | 0.170 to 0.230     | 99.5 | 70.0 to 130 | 1.01  | 20.0  |
| BD06622 | Potassium, Dissolved   | mg/L  | 0.0134    | 0.367    | 10.0  | 11.7    | 11.4    | 10.4     | 8.50 to 11.5       | 99.1 | 70.0 to 130 | 2.60  | 20.0  |
| BD06623 | Potassium, Total       | mg/L  | 0.0131    | 0.367    | 10.0  | 10.1    | 9.91    | 10.0     | 8.50 to 11.5       | 101  | 70.0 to 130 | 1.90  | 20.0  |
| BD06622 | Selenium, Dissolved    | mg/L  | 0.0000543 | 0.00100  | 0.100 | 0.112   | 0.114   | 0.109    | 0.0850 to 0.115    | 112  | 70.0 to 130 | 1.77  | 20.0  |
| BD06623 | Selenium, Total        | mg/L  | 0.000122  | 0.00100  | 0.100 | 0.101   | 0.100   | 0.103    | 0.0850 to 0.115    | 101  | 70.0 to 130 | 0.995 | 20.0  |
| BD06622 | Silicon, Dissolved     | mg/L  | 0.000048  | 0.0440   | 1.00  | 10.6    | 10.6    | 1.01     | 0.850 to 1.15      | 97.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD06623 | Silicon, Total         | mg/L  | 0.00174   | 0.0440   | 1.00  | 0.990   | 0.979   | 0.987    | 0.850 to 1.15      | 99.0 | 70.0 to 130 | 1.12  | 20.0  |
| BD06622 | Sodium, Dissolved      | mg/L  | -0.00120  | 0.0880   | 5.00  | 23.4    | 23.5    | 4.73     | 4.25 to 5.75       | 90.0 | 70.0 to 130 | 0.426 | 20.0  |
| BD06623 | Sodium, Total          | mg/L  | 0.00274   | 0.0880   | 5.00  | 4.73    | 4.72    | 4.66     | 4.25 to 5.75       | 94.6 | 70.0 to 130 | 0.212 | 20.0  |
| BD06623 | Sulfate                | mg/L  | 0.416     | 2.0      | 20.0  | 21.0    | 20.5    | 20.3     | 18.0 to 22.0       | 105  | 80.0 to 120 | 2.41  | 20.0  |
| BD06622 | Thallium, Dissolved    | mg/L  | 0.0000007 | 0.000147 | 0.100 | 0.101   | 0.101   | 0.102    | 0.0850 to 0.115    | 101  | 70.0 to 130 | 0.00  | 20.0  |
| BD06623 | Thallium, Total        | mg/L  | 0.0000062 | 0.000147 | 0.100 | 0.101   | 0.101   | 0.102    | 0.0850 to 0.115    | 101  | 70.0 to 130 | 0.00  | 20.0  |
| BD06623 | Total Organic Carbon   | mg/L  | 0.0651    | 1.00     | 10.0  | 9.83    | 9.42    | 25.6     |                    | 98.3 | 80.0 to 120 | 4.26  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/4/23 08:47

**Customer ID:**

**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-9

**Laboratory ID Number:** BD06621

| Sample  | Analysis                  | Units      | MB   | MB<br>Limit | Spike | MS   | Sample<br>Duplicate | Standard | Standard<br>Limit | Rec | Rec<br>Limit | Prec  | Prec<br>Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------|-------------------|-----|--------------|-------|---------------|
| BD06780 | Alkalinity to pH 4.5      | mg CaCO3/L |      |             |       |      | 147                 | 50.5     | 45.0 to 55.0      |     |              | 0.678 | 10.0          |
| BD06623 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.08 | 0.200       | 2.00  | 2.08 | 0.076               | 2.11     | 1.80 to 2.20      | 104 | 90.0 to 110  | 0.00  | 15.0          |
| BD06780 | Solids, Dissolved         | mg/L       | 1.00 | 25.0        |       |      | 329                 | 51.0     | 40.0 to 60.0      |     |              | 2.70  | 10.0          |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-9 DUP

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 08:47  
**Customer ID:**  
**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06622

| Name                                | Prepared     | Analyzed     | Vio Spec            | DF    | Results                             | Units | MDL      | RL         | Q  |
|-------------------------------------|--------------|--------------|---------------------|-------|-------------------------------------|-------|----------|------------|----|
| <b>Analytical Method: EPA 200.7</b> |              |              | <b>Analyst: ABB</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |    |
| * Boron, Total                      | 4/6/23 06:51 | 4/6/23 12:53 |                     | 1.015 | 1.65                                | mg/L  | 0.030000 | 0.1015     |    |
| * Calcium, Total                    | 4/6/23 06:51 | 4/6/23 12:53 |                     | 1.015 | 32.8                                | mg/L  | 0.070035 | 0.406      |    |
| * Iron, Total                       | 4/6/23 06:51 | 4/6/23 14:00 |                     | 101.5 | 91.5                                | mg/L  | 0.8120   | 4.06       |    |
| * Lithium, Total                    | 4/6/23 06:51 | 4/6/23 12:53 |                     | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U  |
| * Magnesium, Total                  | 4/6/23 06:51 | 4/6/23 12:53 |                     | 1.015 | 12.0                                | mg/L  | 0.021315 | 0.406      |    |
| * Molybdenum, Total                 | 4/6/23 06:51 | 4/6/23 12:53 |                     | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U  |
| * Silica, Total (calc.)             | 4/6/23 06:51 | 4/6/23 12:53 |                     | 1     | 20.4                                | mg/L  |          |            |    |
| * Silicon, Total                    | 4/6/23 06:51 | 4/6/23 12:53 |                     | 1.015 | 9.55                                | mg/L  | 0.02030  | 0.25375    |    |
| * Sodium, Total                     | 4/6/23 06:51 | 4/6/23 12:53 |                     | 1.015 | 18.8                                | mg/L  | 0.04060  | 0.406      |    |
| <b>Analytical Method: EPA 200.7</b> |              |              | <b>Analyst: ABB</b> |       |                                     |       |          |            |    |
| * Boron, Dissolved                  | 4/6/23 09:44 | 4/7/23 12:24 |                     | 1.015 | 1.68                                | mg/L  | 0.030000 | 0.1015     |    |
| * Calcium, Dissolved                | 4/6/23 09:44 | 4/7/23 12:24 |                     | 1.015 | 33.2                                | mg/L  | 0.070035 | 0.406      |    |
| * Iron, Dissolved                   | 4/6/23 09:44 | 4/7/23 13:27 |                     | 101.5 | 93.0                                | mg/L  | 0.8120   | 4.06       | RA |
| * Lithium, Dissolved                | 4/6/23 09:44 | 4/7/23 12:24 |                     | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U  |
| * Magnesium, Dissolved              | 4/6/23 09:44 | 4/7/23 12:24 |                     | 1.015 | 12.2                                | mg/L  | 0.021315 | 0.406      |    |
| * Molybdenum, Dissolved             | 4/6/23 09:44 | 4/7/23 12:24 |                     | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U  |
| * Silica, Dissolved (calc.)         | 4/6/23 09:44 | 4/7/23 12:24 |                     | 1     | 20.6                                | mg/L  |          |            |    |
| * Silicon, Dissolved                | 4/6/23 09:44 | 4/7/23 12:24 |                     | 1.015 | 9.63                                | mg/L  | 0.02030  | 0.25375    |    |
| * Sodium, Dissolved                 | 4/6/23 09:44 | 4/7/23 12:24 |                     | 1.015 | 18.9                                | mg/L  | 0.04060  | 0.406      |    |
| <b>Analytical Method: EPA 200.8</b> |              |              | <b>Analyst: DLJ</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |    |
| * Antimony, Total                   | 4/6/23 06:51 | 4/7/23 12:54 |                     | 1.015 | Not Detected                        | mg/L  | 0.000710 | 0.001015   | U  |
| * Aluminum, Total                   | 4/6/23 06:51 | 4/7/23 12:54 |                     | 1.015 | Not Detected                        | mg/L  | 0.009135 | 0.05075    | U  |
| * Arsenic, Total                    | 4/6/23 06:51 | 4/7/23 12:54 |                     | 1.015 | 0.0147                              | mg/L  | 0.000112 | 0.000203   |    |
| * Barium, Total                     | 4/6/23 06:51 | 4/7/23 12:54 |                     | 1.015 | 0.126                               | mg/L  | 0.000508 | 0.001015   |    |
| * Beryllium, Total                  | 4/6/23 06:51 | 4/7/23 12:54 |                     | 1.015 | Not Detected                        | mg/L  | 0.000406 | 0.001015   | U  |
| * Cadmium, Total                    | 4/6/23 06:51 | 4/7/23 12:54 |                     | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U  |
| * Chromium, Total                   | 4/6/23 06:51 | 4/7/23 12:54 |                     | 1.015 | 0.000607                            | mg/L  | 0.000203 | 0.001015   | J  |
| * Cobalt, Total                     | 4/6/23 06:51 | 4/7/23 12:54 |                     | 1.015 | 0.000723                            | mg/L  | 0.000068 | 0.000203   |    |
| * Lead, Total                       | 4/6/23 06:51 | 4/7/23 12:54 |                     | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U  |
| * Manganese, Total                  | 4/6/23 06:51 | 4/7/23 19:34 |                     | 5.075 | 1.79                                | mg/L  | 0.000761 | 0.005075   |    |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-9 DUP

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 08:47  
**Customer ID:**  
**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06622

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/6/23 06:51  | 4/7/23 12:54        |          | 1.015 | 1.78         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/6/23 06:51  | 4/7/23 12:54        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/6/23 06:51  | 4/7/23 12:54        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/6/23 09:44  | 4/6/23 12:27        |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/6/23 09:44  | 4/6/23 12:27        |          | 1.015 | Not Detected | mg/L       | 0.009135 | 0.05075  | U |
| * Arsenic, Dissolved                   | 4/6/23 09:44  | 4/6/23 12:27        |          | 1.015 | 0.0165       | mg/L       | 0.000112 | 0.000203 |   |
| * Barium, Dissolved                    | 4/6/23 09:44  | 4/6/23 12:27        |          | 1.015 | 0.132        | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/6/23 09:44  | 4/6/23 12:27        |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/6/23 09:44  | 4/6/23 12:27        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/6/23 09:44  | 4/6/23 12:27        |          | 1.015 | 0.000638     | mg/L       | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved                    | 4/6/23 09:44  | 4/6/23 12:27        |          | 1.015 | 0.000768     | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/6/23 09:44  | 4/6/23 12:27        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/6/23 09:44  | 4/7/23 19:09        |          | 5.075 | 1.76         | mg/L       | 0.000761 | 0.005075 |   |
| * Potassium, Dissolved                 | 4/6/23 09:44  | 4/6/23 12:27        |          | 1.015 | 1.79         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/6/23 09:44  | 4/6/23 12:27        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/6/23 09:44  | 4/6/23 12:27        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/11/23 18:35 | 4/11/23 23:59       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/6/23 09:33  | 4/6/23 09:33        |          | 1     | 0.277        | mg/L as N  | 0.20     | 0.3      | J |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/17/23 10:54 | 4/17/23 14:05       |          | 1     | 197          | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/7/23 10:42  | 4/10/23 13:50       |          | 1     | 317          | mg/L       |          | 25       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/17/23 10:54 | 4/17/23 14:05       |          | 1     | 197          | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 4/17/23 10:54 | 4/17/23 14:05       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/5/23 19:58  | 4/5/23 19:58        |          | 1     | 11.2         | mg/L       | 1.00     | 2        |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-9 DUP

**Location Code:** WMWBARAP

**Collected:** 4/4/23 08:47

**Customer ID:**

**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06622

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Chloride                                   | 4/12/23 11:32 | 4/12/23 11:32       |          | 1  | 18.0    | mg/L  | 0.50 | 0.5   |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Fluoride                                   | 4/13/23 10:58 | 4/13/23 10:58       |          | 1  | 0.0651  | mg/L  | 0.06 | 0.125 | J  |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |         |       |      |       |    |
| * Sulfate                                    | 4/6/23 10:52  | 4/6/23 10:52        |          | 1  | 24.2    | mg/L  | 0.6  | 2     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: DKG</b> |          |    |         |       |      |       |    |
| Conductivity                                 | 4/4/23 08:44  | 4/4/23 08:44        |          |    | 557.93  | uS/cm |      |       | FA |
| pH   | 4/4/23 08:44  | 4/4/23 08:44        |          |    | 6.15    | SU    |      |       | FA |
| Temperature                                  | 4/4/23 08:44  | 4/4/23 08:44        |          |    | 21.55   | C     |      |       | FA |
| Turbidity                                    | 4/4/23 08:44  | 4/4/23 08:44        |          |    | 3.66    | NTU   |      |       | FA |
| Sulfide                                      | 4/4/23 08:44  | 4/4/23 08:44        |          |    | 0       | mg/L  |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/4/23 08:47  
**Customer ID:**  
**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-9 DUP

**Laboratory ID Number:** BD06622

| Sample  | Analysis             | Units | MB         | MB       |       | Spike  | MS     | MSD    | Standard        |       | Rec         |       | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|--------|-----------------|-------|-------------|-------|------|-------|
|         |                      |       |            | Limit    |       |        |        |        | Standard        | Limit | Rec         | Limit |      |       |
| BD06622 | Aluminum, Dissolved  | mg/L  | -0.000829  | 0.0198   | 0.100 | 0.102  | 0.102  | 0.103  | 0.0850 to 0.115 | 102   | 70.0 to 130 | 0.00  | 20.0 |       |
| BD06623 | Aluminum, Total      | mg/L  | 0.000464   | 0.0198   | 0.100 | 0.102  | 0.0992 | 0.103  | 0.0850 to 0.115 | 102   | 70.0 to 130 | 2.78  | 20.0 |       |
| BD06622 | Antimony, Dissolved  | mg/L  | 0.000282   | 0.00100  | 0.100 | 0.106  | 0.103  | 0.105  | 0.0850 to 0.115 | 106   | 70.0 to 130 | 2.87  | 20.0 |       |
| BD06623 | Antimony, Total      | mg/L  | 0.000260   | 0.00100  | 0.100 | 0.0952 | 0.0937 | 0.0922 | 0.0850 to 0.115 | 95.2  | 70.0 to 130 | 1.59  | 20.0 |       |
| BD06622 | Arsenic, Dissolved   | mg/L  | 0.000293   | 0.000200 | 0.100 | 0.127  | 0.128  | 0.108  | 0.0850 to 0.115 | 110   | 70.0 to 130 | 0.784 | 20.0 |       |
| BD06623 | Arsenic, Total       | mg/L  | 0.000185   | 0.000200 | 0.100 | 0.0990 | 0.0984 | 0.101  | 0.0850 to 0.115 | 99.0  | 70.0 to 130 | 0.608 | 20.0 |       |
| BD06622 | Barium, Dissolved    | mg/L  | 0.0000004  | 0.00100  | 0.100 | 0.231  | 0.234  | 0.104  | 0.0850 to 0.115 | 99.0  | 70.0 to 130 | 1.29  | 20.0 |       |
| BD06623 | Barium, Total        | mg/L  | 0.0000235  | 0.00100  | 0.100 | 0.0962 | 0.0934 | 0.0935 | 0.0850 to 0.115 | 96.2  | 70.0 to 130 | 2.95  | 20.0 |       |
| BD06622 | Beryllium, Dissolved | mg/L  | 0.0000122  | 0.000880 | 0.100 | 0.0999 | 0.0987 | 0.0962 | 0.0850 to 0.115 | 99.9  | 70.0 to 130 | 1.21  | 20.0 |       |
| BD06623 | Beryllium, Total     | mg/L  | 0.0000089  | 0.000880 | 0.100 | 0.0937 | 0.0937 | 0.0982 | 0.0850 to 0.115 | 93.7  | 70.0 to 130 | 0.00  | 20.0 |       |
| BD06622 | Boron, Dissolved     | mg/L  | 0.000167   | 0.0650   | 1.00  | 2.70   | 2.69   | 1.01   | 0.850 to 1.15   | 102   | 70.0 to 130 | 0.371 | 20.0 |       |
| BD06623 | Boron, Total         | mg/L  | -0.00119   | 0.0650   | 1.00  | 0.992  | 0.982  | 0.989  | 0.850 to 1.15   | 99.2  | 70.0 to 130 | 1.01  | 20.0 |       |
| BD06622 | Cadmium, Dissolved   | mg/L  | 0.0000050  | 0.000147 | 0.100 | 0.103  | 0.109  | 0.111  | 0.0850 to 0.115 | 103   | 70.0 to 130 | 5.66  | 20.0 |       |
| BD06623 | Cadmium, Total       | mg/L  | 0.0000000  | 0.000147 | 0.100 | 0.0989 | 0.0992 | 0.0971 | 0.0850 to 0.115 | 98.9  | 70.0 to 130 | 0.303 | 20.0 |       |
| BD06622 | Calcium, Dissolved   | mg/L  | -0.0141    | 0.152    | 5.00  | 38.0   | 37.8   | 4.92   | 4.25 to 5.75    | 96.0  | 70.0 to 130 | 0.528 | 20.0 |       |
| BD06623 | Calcium, Total       | mg/L  | 0.00187    | 0.152    | 5.00  | 4.77   | 4.82   | 4.92   | 4.25 to 5.75    | 95.4  | 70.0 to 130 | 1.04  | 20.0 |       |
| BD06622 | Chloride             | mg/L  | 0.0211     | 1.00     | 10.0  | 26.7   | 26.9   | 10.3   | 9.00 to 11.0    | 87.0  | 80.0 to 120 | 0.746 | 20.0 |       |
| BD06622 | Chromium, Dissolved  | mg/L  | -0.0000464 | 0.000440 | 0.100 | 0.105  | 0.106  | 0.111  | 0.0850 to 0.115 | 104   | 70.0 to 130 | 0.948 | 20.0 |       |
| BD06623 | Chromium, Total      | mg/L  | 0.0000577  | 0.000440 | 0.100 | 0.100  | 0.0988 | 0.0984 | 0.0850 to 0.115 | 100   | 70.0 to 130 | 1.21  | 20.0 |       |
| BD06622 | Cobalt, Dissolved    | mg/L  | -0.0000057 | 0.000147 | 0.100 | 0.108  | 0.107  | 0.110  | 0.0850 to 0.115 | 107   | 70.0 to 130 | 0.930 | 20.0 |       |
| BD06623 | Cobalt, Total        | mg/L  | -0.0000008 | 0.000147 | 0.100 | 0.103  | 0.101  | 0.101  | 0.0850 to 0.115 | 103   | 70.0 to 130 | 1.96  | 20.0 |       |
| BD06623 | Fluoride             | mg/L  | 0.00185    | 0.125    | 2.50  | 2.65   | 2.62   | 2.62   | 2.25 to 2.75    | 106   | 80.0 to 120 | 1.14  | 20.0 |       |
| BD06622 | Iron, Dissolved      | mg/L  | -0.000107  | 0.0176   | 0.2   | 93.2   | 93.5   | 0.202  | 0.170 to 0.230  | 100   | 70.0 to 130 | 0.321 | 20.0 |       |
| BD06623 | Iron, Total          | mg/L  | -0.000067  | 0.0176   | 0.2   | 0.197  | 0.193  | 0.194  | 0.170 to 0.230  | 98.5  | 70.0 to 130 | 2.05  | 20.0 |       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/4/23 08:47  
**Customer ID:**  
**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-9 DUP

**Laboratory ID Number:** BD06622

| Sample  | Analysis               | Units | MB        |          |       |         |         | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB        | Limit    | Spike | MS      | MSD     | Standard | Limit              | Rec  | Limit       |       |       |
| BD06622 | Lead, Dissolved        | mg/L  | 0.0000188 | 0.000147 | 0.100 | 0.0986  | 0.0971  | 0.101    | 0.0850 to 0.115    | 98.6 | 70.0 to 130 | 1.53  | 20.0  |
| BD06623 | Lead, Total            | mg/L  | 0.0000100 | 0.000147 | 0.100 | 0.0981  | 0.0971  | 0.0990   | 0.0850 to 0.115    | 98.1 | 70.0 to 130 | 1.02  | 20.0  |
| BD06622 | Lithium, Dissolved     | mg/L  | 0.000058  | 0.0154   | 0.200 | 0.206   | 0.207   | 0.197    | 0.170 to 0.230     | 103  | 70.0 to 130 | 0.484 | 20.0  |
| BD06623 | Lithium, Total         | mg/L  | 0.000883  | 0.0154   | 0.200 | 0.197   | 0.195   | 0.191    | 0.170 to 0.230     | 98.5 | 70.0 to 130 | 1.02  | 20.0  |
| BD06622 | Magnesium, Dissolved   | mg/L  | -0.00906  | 0.0462   | 5.00  | 17.0    | 17.0    | 4.92     | 4.25 to 5.75       | 96.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD06623 | Magnesium, Total       | mg/L  | -0.00266  | 0.0462   | 5.00  | 4.84    | 4.81    | 4.86     | 4.25 to 5.75       | 96.8 | 70.0 to 130 | 0.622 | 20.0  |
| BD06622 | Manganese, Dissolved   | mg/L  | 0.0000223 | 0.00033  | 0.100 | 1.87    | 1.84    | 0.102    | 0.0850 to 0.115    | 110  | 70.0 to 130 | 1.62  | 20.0  |
| BD06623 | Manganese, Total       | mg/L  | 0.0000173 | 0.00033  | 0.100 | 0.102   | 0.100   | 0.101    | 0.0850 to 0.115    | 102  | 70.0 to 130 | 1.98  | 20.0  |
| BD06623 | Mercury, Total by CVAA | mg/L  | 3.000E-05 | 0.000500 | 0.005 | 0.00388 | 0.00505 | 0.00409  | 0.00340 to 0.00460 | 77.6 | 70.0 to 130 | 26.2  | 20.0  |
| BD06622 | Molybdenum, Dissolved  | mg/L  | 0.000012  | 0.0100   | 0.2   | 0.204   | 0.203   | 0.203    | 0.170 to 0.230     | 102  | 70.0 to 130 | 0.491 | 20.0  |
| BD06623 | Molybdenum, Total      | mg/L  | 0.000     | 0.0100   | 0.2   | 0.199   | 0.197   | 0.199    | 0.170 to 0.230     | 99.5 | 70.0 to 130 | 1.01  | 20.0  |
| BD06622 | Potassium, Dissolved   | mg/L  | 0.0134    | 0.367    | 10.0  | 11.7    | 11.4    | 10.4     | 8.50 to 11.5       | 99.1 | 70.0 to 130 | 2.60  | 20.0  |
| BD06623 | Potassium, Total       | mg/L  | 0.0131    | 0.367    | 10.0  | 10.1    | 9.91    | 10.0     | 8.50 to 11.5       | 101  | 70.0 to 130 | 1.90  | 20.0  |
| BD06622 | Selenium, Dissolved    | mg/L  | 0.0000543 | 0.00100  | 0.100 | 0.112   | 0.114   | 0.109    | 0.0850 to 0.115    | 112  | 70.0 to 130 | 1.77  | 20.0  |
| BD06623 | Selenium, Total        | mg/L  | 0.000122  | 0.00100  | 0.100 | 0.101   | 0.100   | 0.103    | 0.0850 to 0.115    | 101  | 70.0 to 130 | 0.995 | 20.0  |
| BD06622 | Silicon, Dissolved     | mg/L  | 0.000048  | 0.0440   | 1.00  | 10.6    | 10.6    | 1.01     | 0.850 to 1.15      | 97.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD06623 | Silicon, Total         | mg/L  | 0.00174   | 0.0440   | 1.00  | 0.990   | 0.979   | 0.987    | 0.850 to 1.15      | 99.0 | 70.0 to 130 | 1.12  | 20.0  |
| BD06622 | Sodium, Dissolved      | mg/L  | -0.00120  | 0.0880   | 5.00  | 23.4    | 23.5    | 4.73     | 4.25 to 5.75       | 90.0 | 70.0 to 130 | 0.426 | 20.0  |
| BD06623 | Sodium, Total          | mg/L  | 0.00274   | 0.0880   | 5.00  | 4.73    | 4.72    | 4.66     | 4.25 to 5.75       | 94.6 | 70.0 to 130 | 0.212 | 20.0  |
| BD06623 | Sulfate                | mg/L  | 0.416     | 2.0      | 20.0  | 21.0    | 20.5    | 20.3     | 18.0 to 22.0       | 105  | 80.0 to 120 | 2.41  | 20.0  |
| BD06622 | Thallium, Dissolved    | mg/L  | 0.0000007 | 0.000147 | 0.100 | 0.101   | 0.101   | 0.102    | 0.0850 to 0.115    | 101  | 70.0 to 130 | 0.00  | 20.0  |
| BD06623 | Thallium, Total        | mg/L  | 0.0000062 | 0.000147 | 0.100 | 0.101   | 0.101   | 0.102    | 0.0850 to 0.115    | 101  | 70.0 to 130 | 0.00  | 20.0  |
| BD06623 | Total Organic Carbon   | mg/L  | 0.0651    | 1.00     | 10.0  | 9.83    | 9.42    | 25.6     |                    | 98.3 | 80.0 to 120 | 4.26  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/4/23 08:47

**Customer ID:**

**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond - MW-9 DUP

**Laboratory ID Number:** BD06622

| Sample  | Analysis                  | Units      | MB   | MB<br>Limit | Spike | MS   | Sample<br>Duplicate | Standard | Standard<br>Limit | Rec | Rec<br>Limit | Prec  | Prec<br>Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------|-------------------|-----|--------------|-------|---------------|
| BD06780 | Alkalinity to pH 4.5      | mg CaCO3/L |      |             |       |      | 147                 | 50.5     | 45.0 to 55.0      |     |              | 0.678 | 10.0          |
| BD06623 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.08 | 0.200       | 2.00  | 2.08 | 0.076               | 2.11     | 1.80 to 2.20      | 104 | 90.0 to 110  | 0.00  | 15.0          |
| BD06780 | Solids, Dissolved         | mg/L       | 1.00 | 25.0        |       |      | 329                 | 51.0     | 40.0 to 60.0      |     |              | 2.70  | 10.0          |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond Field Blank-3

**Location Code:** WMWBARAPFB

**Collected:** 4/4/23 09:20

**Customer ID:**

**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06623

| Name                                | Prepared      | Analyzed            | Vio Spec | DF    | Results                             | Units     | MDL      | RL         | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-----------|----------|------------|---|
| <b>Analytical Method: EPA 200.7</b> |               | <b>Analyst: ABB</b> |          |       | <b>Preparation Method: EPA 1638</b> |           |          |            |   |
| * Boron, Total                      | 4/6/23 06:51  | 4/6/23 12:56        |          | 1.015 | Not Detected                        | mg/L      | 0.030000 | 0.1015     | U |
| * Calcium, Total                    | 4/6/23 06:51  | 4/6/23 12:56        |          | 1.015 | Not Detected                        | mg/L      | 0.070035 | 0.406      | U |
| * Iron, Total                       | 4/6/23 06:51  | 4/6/23 12:56        |          | 1.015 | Not Detected                        | mg/L      | 0.008120 | 0.0406     | U |
| * Lithium, Total                    | 4/6/23 06:51  | 4/6/23 12:56        |          | 1.015 | Not Detected                        | mg/L      | 0.007105 | 0.01999956 | U |
| * Magnesium, Total                  | 4/6/23 06:51  | 4/6/23 12:56        |          | 1.015 | Not Detected                        | mg/L      | 0.021315 | 0.406      | U |
| * Molybdenum, Total                 | 4/6/23 06:51  | 4/6/23 12:56        |          | 1.015 | Not Detected                        | mg/L      | 0.005075 | 0.01015    | U |
| * Silica, Total (calc.)             | 4/6/23 06:51  | 4/6/23 12:56        |          | 1     | Not Detected                        | mg/L      |          |            |   |
| * Silicon, Total                    | 4/6/23 06:51  | 4/6/23 12:56        |          | 1.015 | Not Detected                        | mg/L      | 0.02030  | 0.25375    | U |
| * Sodium, Total                     | 4/6/23 06:51  | 4/6/23 12:56        |          | 1.015 | Not Detected                        | mg/L      | 0.04060  | 0.406      | U |
| <b>Analytical Method: EPA 200.8</b> |               | <b>Analyst: DLJ</b> |          |       | <b>Preparation Method: EPA 1638</b> |           |          |            |   |
| * Antimony, Total                   | 4/6/23 06:51  | 4/7/23 12:58        |          | 1.015 | Not Detected                        | mg/L      | 0.000710 | 0.001015   | U |
| * Aluminum, Total                   | 4/6/23 06:51  | 4/7/23 12:58        |          | 1.015 | Not Detected                        | mg/L      | 0.009135 | 0.05075    | U |
| * Arsenic, Total                    | 4/6/23 06:51  | 4/7/23 12:58        |          | 1.015 | Not Detected                        | mg/L      | 0.000112 | 0.000203   | U |
| * Barium, Total                     | 4/6/23 06:51  | 4/7/23 12:58        |          | 1.015 | Not Detected                        | mg/L      | 0.000508 | 0.001015   | U |
| * Beryllium, Total                  | 4/6/23 06:51  | 4/7/23 12:58        |          | 1.015 | Not Detected                        | mg/L      | 0.000406 | 0.001015   | U |
| * Cadmium, Total                    | 4/6/23 06:51  | 4/7/23 12:58        |          | 1.015 | Not Detected                        | mg/L      | 0.000068 | 0.000203   | U |
| * Chromium, Total                   | 4/6/23 06:51  | 4/7/23 12:58        |          | 1.015 | Not Detected                        | mg/L      | 0.000203 | 0.001015   | U |
| * Cobalt, Total                     | 4/6/23 06:51  | 4/7/23 12:58        |          | 1.015 | Not Detected                        | mg/L      | 0.000068 | 0.000203   | U |
| * Lead, Total                       | 4/6/23 06:51  | 4/7/23 12:58        |          | 1.015 | Not Detected                        | mg/L      | 0.000068 | 0.000203   | U |
| * Manganese, Total                  | 4/6/23 06:51  | 4/7/23 12:58        |          | 1.015 | Not Detected                        | mg/L      | 0.000152 | 0.001015   | U |
| * Potassium, Total                  | 4/6/23 06:51  | 4/7/23 12:58        |          | 1.015 | Not Detected                        | mg/L      | 0.169505 | 0.5075     | U |
| * Selenium, Total                   | 4/6/23 06:51  | 4/7/23 12:58        |          | 1.015 | Not Detected                        | mg/L      | 0.000508 | 0.001015   | U |
| * Thallium, Total                   | 4/6/23 06:51  | 4/7/23 12:58        |          | 1.015 | Not Detected                        | mg/L      | 0.000068 | 0.000203   | U |
| <b>Analytical Method: EPA 245.1</b> |               | <b>Analyst: CRB</b> |          |       |                                     |           |          |            |   |
| * Mercury, Total by CVAA            | 4/11/23 18:35 | 4/12/23 00:03       |          | 1     | Not Detected                        | mg/L      | 0.0003   | 0.0005     | U |
| <b>Analytical Method: EPA 353.2</b> |               | <b>Analyst: SC</b>  |          |       |                                     |           |          |            |   |
| * Nitrogen, Nitrate/Nitrite         | 4/6/23 09:35  | 4/6/23 09:35        |          | 1     | Not Detected                        | mg/L as N | 0.20     | 0.3        | U |
| <b>Analytical Method: SM 2540C</b>  |               | <b>Analyst: CNJ</b> |          |       |                                     |           |          |            |   |
| * Solids, Dissolved                 | 4/7/23 10:42  | 4/10/23 13:50       |          | 1     | Not Detected                        | mg/L      |          | 25         | U |

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

**Comments:** Mercury precision is out of specification limit.

# Certificate Of Analysis

**Description:** Barry Ash Pond Field Blank-3

**Location Code:** WMWBARAPFB

**Collected:** 4/4/23 09:20

**Customer ID:**

**Submittal Date:** 4/5/23 07:36

**Laboratory ID Number:** BD06623

| Name                                       | Prepared      | Analyzed            | Vio Spec | DF | Results      | Units | MDL  | RL    | Q |
|--|---------------|---------------------|----------|----|--------------|-------|------|-------|---|
| <b>Analytical Method: SM 5310 B</b>        |               | <b>Analyst: SC</b>  |          |    |              |       |      |       |   |
| * Total Organic Carbon                     | 4/5/23 20:14  | 4/5/23 20:14        |          | 1  | Not Detected | mg/L  | 1.00 | 2     | U |
| <b>Analytical Method: SM4500Cl E</b>       |               | <b>Analyst: CES</b> |          |    |              |       |      |       |   |
| * Chloride                                 | 4/12/23 12:18 | 4/12/23 12:18       |          | 1  | Not Detected | mg/L  | 0.50 | 0.5   | U |
| <b>Analytical Method: SM4500F G 2017</b>   |               | <b>Analyst: CES</b> |          |    |              |       |      |       |   |
| * Fluoride                                 | 4/13/23 10:59 | 4/13/23 10:59       |          | 1  | Not Detected | mg/L  | 0.06 | 0.125 | U |
| <b>Analytical Method: SM4500SO4 E 2011</b> |               | <b>Analyst: JCC</b> |          |    |              |       |      |       |   |
| * Sulfate                                  | 4/6/23 10:53  | 4/6/23 10:53        |          | 1  | Not Detected | mg/L  | 0.6  | 2     | U |

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

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**Comments:** Mercury precision is out of specification limit.

# Batch QC Summary

**Customer Account:** WMWBARAPFB

**Sample Date:** 4/4/23 09:20

**Customer ID:**

**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond Field Blank-3

**Laboratory ID Number:** BD06623

| Sample  | Analysis               | Units | MB         |          |       |         | Standard |          |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|----------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB         | Limit    | Spike | MS      | MSD      | Standard | Limit              | Rec  | Limit       |       |       |
| BD06623 | Aluminum, Total        | mg/L  | 0.000464   | 0.0198   | 0.100 | 0.102   | 0.0992   | 0.103    | 0.0850 to 0.115    | 102  | 70.0 to 130 | 2.78  | 20.0  |
| BD06623 | Antimony, Total        | mg/L  | 0.000260   | 0.00100  | 0.100 | 0.0952  | 0.0937   | 0.0922   | 0.0850 to 0.115    | 95.2 | 70.0 to 130 | 1.59  | 20.0  |
| BD06623 | Arsenic, Total         | mg/L  | 0.0000185  | 0.000200 | 0.100 | 0.0990  | 0.0984   | 0.101    | 0.0850 to 0.115    | 99.0 | 70.0 to 130 | 0.608 | 20.0  |
| BD06623 | Barium, Total          | mg/L  | 0.0000235  | 0.00100  | 0.100 | 0.0962  | 0.0934   | 0.0935   | 0.0850 to 0.115    | 96.2 | 70.0 to 130 | 2.95  | 20.0  |
| BD06623 | Beryllium, Total       | mg/L  | 0.0000089  | 0.000880 | 0.100 | 0.0937  | 0.0937   | 0.0982   | 0.0850 to 0.115    | 93.7 | 70.0 to 130 | 0.00  | 20.0  |
| BD06623 | Boron, Total           | mg/L  | -0.00119   | 0.0650   | 1.00  | 0.992   | 0.982    | 0.989    | 0.850 to 1.15      | 99.2 | 70.0 to 130 | 1.01  | 20.0  |
| BD06623 | Cadmium, Total         | mg/L  | 0.0000000  | 0.000147 | 0.100 | 0.0989  | 0.0992   | 0.0971   | 0.0850 to 0.115    | 98.9 | 70.0 to 130 | 0.303 | 20.0  |
| BD06623 | Calcium, Total         | mg/L  | 0.00187    | 0.152    | 5.00  | 4.77    | 4.82     | 4.92     | 4.25 to 5.75       | 95.4 | 70.0 to 130 | 1.04  | 20.0  |
| BD06827 | Chloride               | mg/L  | 0.0514     | 1.00     | 800   | 1580    | 1590     | 10.2     | 9.00 to 11.0       | 105  | 80.0 to 120 | 0.631 | 20.0  |
| BD06623 | Chromium, Total        | mg/L  | 0.0000577  | 0.000440 | 0.100 | 0.100   | 0.0988   | 0.0984   | 0.0850 to 0.115    | 100  | 70.0 to 130 | 1.21  | 20.0  |
| BD06623 | Cobalt, Total          | mg/L  | -0.0000008 | 0.000147 | 0.100 | 0.103   | 0.101    | 0.101    | 0.0850 to 0.115    | 103  | 70.0 to 130 | 1.96  | 20.0  |
| BD06623 | Fluoride               | mg/L  | 0.00185    | 0.125    | 2.50  | 2.65    | 2.62     | 2.62     | 2.25 to 2.75       | 106  | 80.0 to 120 | 1.14  | 20.0  |
| BD06623 | Iron, Total            | mg/L  | -0.000067  | 0.0176   | 0.2   | 0.197   | 0.193    | 0.194    | 0.170 to 0.230     | 98.5 | 70.0 to 130 | 2.05  | 20.0  |
| BD06623 | Lead, Total            | mg/L  | 0.0000100  | 0.000147 | 0.100 | 0.0981  | 0.0971   | 0.0990   | 0.0850 to 0.115    | 98.1 | 70.0 to 130 | 1.02  | 20.0  |
| BD06623 | Lithium, Total         | mg/L  | 0.000883   | 0.0154   | 0.200 | 0.197   | 0.195    | 0.191    | 0.170 to 0.230     | 98.5 | 70.0 to 130 | 1.02  | 20.0  |
| BD06623 | Magnesium, Total       | mg/L  | -0.00266   | 0.0462   | 5.00  | 4.84    | 4.81     | 4.86     | 4.25 to 5.75       | 96.8 | 70.0 to 130 | 0.622 | 20.0  |
| BD06623 | Manganese, Total       | mg/L  | 0.0000173  | 0.00033  | 0.100 | 0.102   | 0.100    | 0.101    | 0.0850 to 0.115    | 102  | 70.0 to 130 | 1.98  | 20.0  |
| BD06623 | Mercury, Total by CVAA | mg/L  | 3.000E-05  | 0.000500 | 0.005 | 0.00388 | 0.00505  | 0.00409  | 0.00340 to 0.00460 | 77.6 | 70.0 to 130 | 26.2  | 20.0  |
| BD06623 | Molybdenum, Total      | mg/L  | 0.000      | 0.0100   | 0.2   | 0.199   | 0.197    | 0.199    | 0.170 to 0.230     | 99.5 | 70.0 to 130 | 1.01  | 20.0  |
| BD06623 | Potassium, Total       | mg/L  | 0.0131     | 0.367    | 10.0  | 10.1    | 9.91     | 10.0     | 8.50 to 11.5       | 101  | 70.0 to 130 | 1.90  | 20.0  |
| BD06623 | Selenium, Total        | mg/L  | 0.000122   | 0.00100  | 0.100 | 0.101   | 0.100    | 0.103    | 0.0850 to 0.115    | 101  | 70.0 to 130 | 0.995 | 20.0  |
| BD06623 | Silicon, Total         | mg/L  | 0.00174    | 0.0440   | 1.00  | 0.990   | 0.979    | 0.987    | 0.850 to 1.15      | 99.0 | 70.0 to 130 | 1.12  | 20.0  |
| BD06623 | Sodium, Total          | mg/L  | 0.00274    | 0.0880   | 5.00  | 4.73    | 4.72     | 4.66     | 4.25 to 5.75       | 94.6 | 70.0 to 130 | 0.212 | 20.0  |
| BD06623 | Sulfate                | mg/L  | 0.416      | 2.0      | 20.0  | 21.0    | 20.5     | 20.3     | 18.0 to 22.0       | 105  | 80.0 to 120 | 2.41  | 20.0  |

**Comments:** Mercury precision is out of specification limit.



# Batch QC Summary

**Customer Account:** WMWBARAPFB

**Sample Date:** 4/4/23 09:20

**Customer ID:**

**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond Field Blank-3

**Laboratory ID Number:** BD06623

| Sample  | Analysis             | Units | MB        | MB       |       |       |       | Standard |                 | Rec  |             | Prec |       |
|---------|----------------------|-------|-----------|----------|-------|-------|-------|----------|-----------------|------|-------------|------|-------|
|         |                      |       |           | Limit    | Spike | MS    | MSD   | Standard | Limit           | Rec  | Limit       | Prec | Limit |
| BD06623 | Thallium, Total      | mg/L  | 0.0000062 | 0.000147 | 0.100 | 0.101 | 0.101 | 0.102    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 0.00 | 20.0  |
| BD06623 | Total Organic Carbon | mg/L  | 0.0651    | 1.00     | 10.0  | 9.83  | 9.42  | 25.6     |                 | 98.3 | 80.0 to 120 | 4.26 | 20.0  |

**Comments:** Mercury precision is out of specification limit.

## Batch QC Summary

**Customer Account:** WMWBARAPFB

**Sample Date:** 4/4/23 09:20

**Customer ID:**

**Delivery Date:** 4/5/23 07:36

**Description:** Barry Ash Pond Field Blank-3

**Laboratory ID Number:** BD06623

| Sample  | Analysis                  | Units     | MB   | MB<br>Limit | Spike | MS   | Sample<br>Duplicate | Standard | Standard<br>Limit | Rec | Rec<br>Limit | Prec | Prec<br>Limit |
|---------|---------------------------|-----------|------|-------------|-------|------|---------------------|----------|-------------------|-----|--------------|------|---------------|
| BD06623 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.08 | 0.200       | 2.00  | 2.08 | 0.076               | 2.11     | 1.80 to 2.20      | 104 | 90.0 to 110  | 0.00 | 15.0          |
| BD06780 | Solids, Dissolved         | mg/L      | 1.00 | 25.0        |       |      | 329                 | 51.0     | 40.0 to 60.0      |     |              | 2.70 | 10.0          |

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**Comments:** Mercury precision is out of specification limit.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-11

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 11:25  
**Customer ID:**  
**Submittal Date:** 4/5/23 14:11

**Laboratory ID Number:** BD06775

| Name                                | Prepared     | Analyzed      | Vio Spec            | DF    | Results      | Units                               | MDL      | RL         | Q |
|-------------------------------------|--------------|---------------|---------------------|-------|--------------|-------------------------------------|----------|------------|---|
| <b>Analytical Method: EPA 200.7</b> |              |               | <b>Analyst: ABB</b> |       |              | <b>Preparation Method: EPA 1638</b> |          |            |   |
| * Boron, Total                      | 4/7/23 14:10 | 4/11/23 11:10 |                     | 1.015 | 0.0581       | mg/L                                | 0.030000 | 0.1015     | J |
| * Calcium, Total                    | 4/7/23 14:10 | 4/11/23 11:10 |                     | 1.015 | 26.6         | mg/L                                | 0.070035 | 0.406      |   |
| * Iron, Total                       | 4/7/23 14:10 | 4/11/23 13:16 |                     | 101.5 | 73.5         | mg/L                                | 0.8120   | 4.06       |   |
| * Lithium, Total                    | 4/7/23 14:10 | 4/11/23 11:10 |                     | 1.015 | 0.0340       | mg/L                                | 0.007105 | 0.01999956 |   |
| * Magnesium, Total                  | 4/7/23 14:10 | 4/11/23 11:10 |                     | 1.015 | 13.9         | mg/L                                | 0.021315 | 0.406      |   |
| * Molybdenum, Total                 | 4/7/23 14:10 | 4/11/23 11:10 |                     | 1.015 | Not Detected | mg/L                                | 0.005075 | 0.01015    | U |
| * Silica, Total (calc.)             | 4/7/23 14:10 | 4/11/23 11:10 |                     | 1     | 16.2         | mg/L                                |          |            |   |
| * Silicon, Total                    | 4/7/23 14:10 | 4/11/23 11:10 |                     | 1.015 | 7.59         | mg/L                                | 0.02030  | 0.25375    |   |
| * Sodium, Total                     | 4/7/23 14:10 | 4/11/23 13:16 |                     | 101.5 | 49.7         | mg/L                                | 4.060    | 40.6       |   |
| <b>Analytical Method: EPA 200.7</b> |              |               | <b>Analyst: ABB</b> |       |              |                                     |          |            |   |
| * Boron, Dissolved                  | 4/7/23 11:45 | 4/12/23 11:11 |                     | 1.015 | 0.0559       | mg/L                                | 0.030000 | 0.1015     | J |
| * Calcium, Dissolved                | 4/7/23 11:45 | 4/12/23 11:11 |                     | 1.015 | 26.0         | mg/L                                | 0.070035 | 0.406      |   |
| * Iron, Dissolved                   | 4/7/23 11:45 | 4/12/23 13:18 |                     | 101.5 | 71.2         | mg/L                                | 0.8120   | 4.06       |   |
| * Lithium, Dissolved                | 4/7/23 11:45 | 4/12/23 11:11 |                     | 1.015 | 0.0332       | mg/L                                | 0.007105 | 0.01999956 |   |
| * Magnesium, Dissolved              | 4/7/23 11:45 | 4/12/23 11:11 |                     | 1.015 | 13.9         | mg/L                                | 0.021315 | 0.406      |   |
| * Molybdenum, Dissolved             | 4/7/23 11:45 | 4/12/23 11:11 |                     | 1.015 | Not Detected | mg/L                                | 0.005075 | 0.01015    | U |
| * Silica, Dissolved (calc.)         | 4/7/23 11:45 | 4/12/23 11:11 |                     | 1     | 16.1         | mg/L                                |          |            |   |
| * Silicon, Dissolved                | 4/7/23 11:45 | 4/12/23 11:11 |                     | 1.015 | 7.51         | mg/L                                | 0.02030  | 0.25375    |   |
| * Sodium, Dissolved                 | 4/7/23 11:45 | 4/12/23 13:18 |                     | 101.5 | 48.3         | mg/L                                | 4.060    | 40.6       |   |
| <b>Analytical Method: EPA 200.8</b> |              |               | <b>Analyst: DLJ</b> |       |              | <b>Preparation Method: EPA 1638</b> |          |            |   |
| * Antimony, Total                   | 4/7/23 14:10 | 4/7/23 16:32  |                     | 1.015 | Not Detected | mg/L                                | 0.000710 | 0.001015   | U |
| * Aluminum, Total                   | 4/7/23 14:10 | 4/7/23 16:32  |                     | 1.015 | 0.0493       | mg/L                                | 0.009135 | 0.05075    | J |
| * Arsenic, Total                    | 4/7/23 14:10 | 4/7/23 16:32  |                     | 1.015 | 0.0128       | mg/L                                | 0.000112 | 0.000203   |   |
| * Barium, Total                     | 4/7/23 14:10 | 4/7/23 16:32  |                     | 1.015 | 0.0699       | mg/L                                | 0.000508 | 0.001015   |   |
| * Beryllium, Total                  | 4/7/23 14:10 | 4/7/23 16:32  |                     | 1.015 | Not Detected | mg/L                                | 0.000406 | 0.001015   | U |
| * Cadmium, Total                    | 4/7/23 14:10 | 4/7/23 16:32  |                     | 1.015 | Not Detected | mg/L                                | 0.000068 | 0.000203   | U |
| * Chromium, Total                   | 4/7/23 14:10 | 4/7/23 16:32  |                     | 1.015 | 0.00254      | mg/L                                | 0.000203 | 0.001015   |   |
| * Cobalt, Total                     | 4/7/23 14:10 | 4/7/23 16:32  |                     | 1.015 | 0.000946     | mg/L                                | 0.000068 | 0.000203   |   |
| * Lead, Total                       | 4/7/23 14:10 | 4/7/23 16:32  |                     | 1.015 | 0.0000690    | mg/L                                | 0.000068 | 0.000203   | J |
| * Manganese, Total                  | 4/7/23 14:10 | 4/7/23 16:32  |                     | 1.015 | 0.600        | mg/L                                | 0.000152 | 0.001015   |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-11

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 11:25  
**Customer ID:**  
**Submittal Date:** 4/5/23 14:11

**Laboratory ID Number:** BD06775

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/7/23 14:10  | 4/7/23 16:32        |          | 1.015 | 12.1         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/7/23 14:10  | 4/7/23 16:32        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/7/23 14:10  | 4/7/23 16:32        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:27        |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:27        |          | 1.015 | Not Detected | mg/L       | 0.009135 | 0.05075  | U |
| * Arsenic, Dissolved                   | 4/7/23 11:45  | 4/7/23 13:27        |          | 1.015 | 0.0137       | mg/L       | 0.000112 | 0.000203 |   |
| * Barium, Dissolved                    | 4/7/23 11:45  | 4/7/23 13:27        |          | 1.015 | 0.0703       | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/7/23 11:45  | 4/7/23 13:27        |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/7/23 11:45  | 4/7/23 13:27        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:27        |          | 1.015 | 0.00220      | mg/L       | 0.000203 | 0.001015 |   |
| * Cobalt, Dissolved                    | 4/7/23 11:45  | 4/7/23 13:27        |          | 1.015 | 0.000905     | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/7/23 11:45  | 4/7/23 13:27        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/7/23 11:45  | 4/7/23 13:27        |          | 1.015 | 0.603        | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/7/23 11:45  | 4/7/23 13:27        |          | 1.015 | 11.7         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:27        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:27        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/11/23 18:35 | 4/12/23 00:31       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/6/23 09:44  | 4/6/23 09:44        |          | 1     | 0.227        | mg/L as N  | 0.20     | 0.3      | J |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/17/23 10:54 | 4/17/23 14:05       |          | 1     | 230          | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/7/23 10:42  | 4/10/23 13:50       |          | 1     | 392          | mg/L       |          | 25       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/17/23 10:54 | 4/17/23 14:05       |          | 1     | 230          | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 4/17/23 10:54 | 4/17/23 14:05       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/12/23 10:31 | 4/12/23 10:31       |          | 1     | 25.8         | mg/L       | 1.00     | 2        |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-11

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 11:25  
**Customer ID:**  
**Submittal Date:** 4/5/23 14:11

**Laboratory ID Number:** BD06775

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Chloride                                   | 4/12/23 12:08 | 4/12/23 12:08       |          | 2  | 28.9    | mg/L  | 1.00 | 1     |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Fluoride                                   | 4/13/23 11:11 | 4/13/23 11:11       |          | 1  | 0.126   | mg/L  | 0.06 | 0.125 |    |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |         |       |      |       |    |
| * Sulfate                                    | 4/6/23 11:17  | 4/6/23 11:17        |          | 3  | 84.3    | mg/L  | 1.8  | 6     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: TJD</b> |          |    |         |       |      |       |    |
| Conductivity                                 | 4/4/23 11:23  | 4/4/23 11:23        |          |    | 672.85  | uS/cm |      |       | FA |
| pH   | 4/4/23 11:23  | 4/4/23 11:23        |          |    | 6.27    | SU    |      |       | FA |
| Temperature                                  | 4/4/23 11:23  | 4/4/23 11:23        |          |    | 21.31   | C     |      |       | FA |
| Turbidity                                    | 4/4/23 11:23  | 4/4/23 11:23        |          |    | 4.71    | NTU   |      |       | FA |
| Sulfide                                      | 4/4/23 11:23  | 4/4/23 11:23        |          |    | 0       | mg/L  |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/4/23 11:25  
**Customer ID:**  
**Delivery Date:** 4/5/23 14:11

**Description:** Barry Ash Pond - MW-11

**Laboratory ID Number:** BD06775

| Sample  | Analysis             | Units | MB         | MB       |       |        |        | Standard |                 | Rec   |             | Prec  | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|-------|-------------|-------|-------|
|         |                      |       |            | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec   | Limit       |       |       |
| BD06829 | Aluminum, Dissolved  | mg/L  | 0.0000353  | 0.0198   | 0.100 | 0.101  | 0.102  | 0.0999   | 0.0850 to 0.115 | 101   | 70.0 to 130 | 0.985 | 20.0  |
| BD06828 | Aluminum, Total      | mg/L  | 0.000609   | 0.0198   | 0.100 | 0.139  | 0.139  | 0.103    | 0.0850 to 0.115 | 99.8  | 70.0 to 130 | 0.00  | 20.0  |
| BD06829 | Antimony, Dissolved  | mg/L  | 0.000377   | 0.00100  | 0.100 | 0.0881 | 0.0905 | 0.0898   | 0.0850 to 0.115 | 88.1  | 70.0 to 130 | 2.69  | 20.0  |
| BD06828 | Antimony, Total      | mg/L  | 0.000237   | 0.00100  | 0.100 | 0.0875 | 0.0922 | 0.0867   | 0.0850 to 0.115 | 87.5  | 70.0 to 130 | 5.23  | 20.0  |
| BD06829 | Arsenic, Dissolved   | mg/L  | 0.0000113  | 0.000200 | 0.100 | 0.121  | 0.124  | 0.0990   | 0.0850 to 0.115 | 98.1  | 70.0 to 130 | 2.45  | 20.0  |
| BD06828 | Arsenic, Total       | mg/L  | 0.0000156  | 0.000200 | 0.100 | 0.0969 | 0.0996 | 0.0998   | 0.0850 to 0.115 | 95.8  | 70.0 to 130 | 2.75  | 20.0  |
| BD06829 | Barium, Dissolved    | mg/L  | 0.0000105  | 0.00100  | 0.100 | 0.210  | 0.210  | 0.0944   | 0.0850 to 0.115 | 93.0  | 70.0 to 130 | 0.00  | 20.0  |
| BD06828 | Barium, Total        | mg/L  | -0.0000063 | 0.00100  | 0.100 | 1.14   | 1.19   | 0.0923   | 0.0850 to 0.115 | 30.0  | 70.0 to 130 | 4.29  | 20.0  |
| BD06829 | Beryllium, Dissolved | mg/L  | 0.0000117  | 0.000880 | 0.100 | 0.0899 | 0.0944 | 0.0908   | 0.0850 to 0.115 | 89.9  | 70.0 to 130 | 4.88  | 20.0  |
| BD06828 | Beryllium, Total     | mg/L  | 0.0000000  | 0.000880 | 0.100 | 0.0921 | 0.0959 | 0.0944   | 0.0850 to 0.115 | 92.1  | 70.0 to 130 | 4.04  | 20.0  |
| BD06829 | Boron, Dissolved     | mg/L  | -0.000075  | 0.0650   | 1.00  | 1.01   | 1.06   | 1.00     | 0.850 to 1.15   | 96.4  | 70.0 to 130 | 4.83  | 20.0  |
| BD06828 | Boron, Total         | mg/L  | -0.000537  | 0.0650   | 1.00  | 1.35   | 1.34   | 1.02     | 0.850 to 1.15   | 106   | 70.0 to 130 | 0.743 | 20.0  |
| BD06829 | Cadmium, Dissolved   | mg/L  | 0.0000046  | 0.000147 | 0.100 | 0.0963 | 0.0981 | 0.0982   | 0.0850 to 0.115 | 96.3  | 70.0 to 130 | 1.85  | 20.0  |
| BD06828 | Cadmium, Total       | mg/L  | 0.0000043  | 0.000147 | 0.100 | 0.0895 | 0.0918 | 0.0962   | 0.0850 to 0.115 | 89.4  | 70.0 to 130 | 2.54  | 20.0  |
| BD06829 | Calcium, Dissolved   | mg/L  | -0.00493   | 0.152    | 5.00  | 14.7   | 14.6   | 4.94     | 4.25 to 5.75    | 92.0  | 70.0 to 130 | 0.683 | 20.0  |
| BD06828 | Calcium, Total       | mg/L  | -0.0178    | 0.152    | 5.00  | 85.0   | 86.4   | 5.00     | 4.25 to 5.75    | 36.0  | 70.0 to 130 | 1.63  | 20.0  |
| BD06827 | Chloride             | mg/L  | 0.0514     | 1.00     | 800   | 1580   | 1590   | 10.2     | 9.00 to 11.0    | 105   | 80.0 to 120 | 0.631 | 20.0  |
| BD06829 | Chromium, Dissolved  | mg/L  | -0.0000370 | 0.000440 | 0.100 | 0.0967 | 0.0995 | 0.0995   | 0.0850 to 0.115 | 96.7  | 70.0 to 130 | 2.85  | 20.0  |
| BD06828 | Chromium, Total      | mg/L  | -0.0000476 | 0.000440 | 0.100 | 0.0926 | 0.0929 | 0.0965   | 0.0850 to 0.115 | 92.4  | 70.0 to 130 | 0.323 | 20.0  |
| BD06829 | Cobalt, Dissolved    | mg/L  | -0.0000017 | 0.000147 | 0.100 | 0.101  | 0.104  | 0.101    | 0.0850 to 0.115 | 100   | 70.0 to 130 | 2.93  | 20.0  |
| BD06828 | Cobalt, Total        | mg/L  | 0.0000042  | 0.000147 | 0.100 | 0.219  | 0.220  | 0.0997   | 0.0850 to 0.115 | 89.0  | 70.0 to 130 | 0.456 | 20.0  |
| BD06828 | Fluoride             | mg/L  | -0.00644   | 0.125    | 2.50  | 2.78   | 2.79   | 2.62     | 2.25 to 2.75    | 107   | 80.0 to 120 | 0.359 | 20.0  |
| BD06829 | Iron, Dissolved      | mg/L  | -0.00183   | 0.0176   | 0.2   | 60.3   | 60.4   | 0.195    | 0.170 to 0.230  | -50.0 | 70.0 to 130 | 0.166 | 20.0  |
| BD06828 | Iron, Total          | mg/L  | 0.000416   | 0.0176   | 0.2   | 0.648  | 0.649  | 0.200    | 0.170 to 0.230  | 98.0  | 70.0 to 130 | 0.154 | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/4/23 11:25

**Customer ID:**

**Delivery Date:** 4/5/23 14:11

**Description:** Barry Ash Pond - MW-11

**Laboratory ID Number:** BD06775

| Sample  | Analysis               | Units | MB         |          | Spike | MS      | MSD     | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB         | Limit    |       |         |         | Standard | Limit              | Rec  | Limit       |       |       |
| BD06829 | Lead, Dissolved        | mg/L  | 0.0000118  | 0.000147 | 0.100 | 0.0948  | 0.0971  | 0.0971   | 0.0850 to 0.115    | 94.8 | 70.0 to 130 | 2.40  | 20.0  |
| BD06828 | Lead, Total            | mg/L  | 0.0000027  | 0.000147 | 0.100 | 0.0928  | 0.0958  | 0.0945   | 0.0850 to 0.115    | 92.8 | 70.0 to 130 | 3.18  | 20.0  |
| BD06829 | Lithium, Dissolved     | mg/L  | 0.000245   | 0.0154   | 0.200 | 0.199   | 0.200   | 0.195    | 0.170 to 0.230     | 99.5 | 70.0 to 130 | 0.501 | 20.0  |
| BD06828 | Lithium, Total         | mg/L  | -0.000701  | 0.0154   | 0.200 | 0.220   | 0.221   | 0.199    | 0.170 to 0.230     | 110  | 70.0 to 130 | 0.454 | 20.0  |
| BD06829 | Magnesium, Dissolved   | mg/L  | 0.000      | 0.0462   | 5.00  | 9.49    | 9.46    | 4.93     | 4.25 to 5.75       | 93.2 | 70.0 to 130 | 0.317 | 20.0  |
| BD06828 | Magnesium, Total       | mg/L  | -0.00548   | 0.0462   | 5.00  | 77.6    | 75.3    | 4.93     | 4.25 to 5.75       | 102  | 70.0 to 130 | 3.01  | 20.0  |
| BD06829 | Manganese, Dissolved   | mg/L  | 0.0000167  | 0.00033  | 0.100 | 0.378   | 0.382   | 0.101    | 0.0850 to 0.115    | 98.0 | 70.0 to 130 | 1.05  | 20.0  |
| BD06828 | Manganese, Total       | mg/L  | 0.000200   | 0.00033  | 0.100 | 4.77    | 4.92    | 0.0980   | 0.0850 to 0.115    | 70.0 | 70.0 to 130 | 3.10  | 20.0  |
| BD06828 | Mercury, Total by CVAA | mg/L  | 2.000E-05  | 0.000500 | 0.004 | 0.00397 | 0.00409 | 0.00403  | 0.00340 to 0.00460 | 99.2 | 70.0 to 130 | 2.98  | 20.0  |
| BD06829 | Molybdenum, Dissolved  | mg/L  | -0.000152  | 0.0100   | 0.2   | 0.194   | 0.196   | 0.195    | 0.170 to 0.230     | 97.0 | 70.0 to 130 | 1.03  | 20.0  |
| BD06828 | Molybdenum, Total      | mg/L  | -0.001     | 0.0100   | 0.2   | 0.202   | 0.201   | 0.201    | 0.170 to 0.230     | 101  | 70.0 to 130 | 0.496 | 20.0  |
| BD06829 | Potassium, Dissolved   | mg/L  | 0.00935    | 0.367    | 10.0  | 11.2    | 11.3    | 9.82     | 8.50 to 11.5       | 97.4 | 70.0 to 130 | 0.889 | 20.0  |
| BD06828 | Potassium, Total       | mg/L  | -0.00778   | 0.367    | 10.0  | 25.9    | 26.1    | 9.95     | 8.50 to 11.5       | 88.0 | 70.0 to 130 | 0.769 | 20.0  |
| BD06829 | Selenium, Dissolved    | mg/L  | 0.000102   | 0.00100  | 0.100 | 0.102   | 0.103   | 0.0997   | 0.0850 to 0.115    | 102  | 70.0 to 130 | 0.976 | 20.0  |
| BD06828 | Selenium, Total        | mg/L  | 0.0000454  | 0.00100  | 0.100 | 0.0951  | 0.0968  | 0.100    | 0.0850 to 0.115    | 95.1 | 70.0 to 130 | 1.77  | 20.0  |
| BD06829 | Silicon, Dissolved     | mg/L  | 0.000229   | 0.0440   | 1.00  | 8.70    | 8.71    | 0.997    | 0.850 to 1.15      | 96.0 | 70.0 to 130 | 0.115 | 20.0  |
| BD06828 | Silicon, Total         | mg/L  | -0.000048  | 0.0440   | 1.00  | 6.40    | 6.36    | 1.02     | 0.850 to 1.15      | 101  | 70.0 to 130 | 0.627 | 20.0  |
| BD06829 | Sodium, Dissolved      | mg/L  | 0.0149     | 0.0880   | 5.00  | 21.1    | 20.8    | 5.23     | 4.25 to 5.75       | 96.0 | 70.0 to 130 | 1.43  | 20.0  |
| BD06828 | Sodium, Total          | mg/L  | 0.000332   | 0.0880   | 5.00  | 761     | 761     | 4.87     | 4.25 to 5.75       | 120  | 70.0 to 130 | 0.00  | 20.0  |
| BD06781 | Sulfate                | mg/L  | 0.358      | 2.0      | 20.0  | 20.2    | 20.0    | 20.4     | 18.0 to 22.0       | 101  | 80.0 to 120 | 0.995 | 20.0  |
| BD06829 | Thallium, Dissolved    | mg/L  | -0.0000001 | 0.000147 | 0.100 | 0.0977  | 0.0992  | 0.0992   | 0.0850 to 0.115    | 97.7 | 70.0 to 130 | 1.52  | 20.0  |
| BD06828 | Thallium, Total        | mg/L  | 0.0000054  | 0.000147 | 0.100 | 0.0959  | 0.0990  | 0.0978   | 0.0850 to 0.115    | 95.5 | 70.0 to 130 | 3.18  | 20.0  |
| BD06828 | Total Organic Carbon   | mg/L  | 0.108      | 1.00     | 10.0  | 11.0    | 10.6    | 23.5     |                    | 94.6 | 80.0 to 120 | 3.70  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/4/23 11:25

**Customer ID:**

**Delivery Date:** 4/5/23 14:11

**Description:** Barry Ash Pond - MW-11

**Laboratory ID Number:** BD06775

| Sample  | Analysis                  | Units      | MB   | MB<br>Limit | Spike | MS   | Sample<br>Duplicate | Standard | Standard<br>Limit | Rec | Rec<br>Limit | Prec  | Prec<br>Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------|-------------------|-----|--------------|-------|---------------|
| BD06780 | Alkalinity to pH 4.5      | mg CaCO3/L |      |             |       |      | 147                 | 50.5     | 45.0 to 55.0      |     |              | 0.678 | 10.0          |
| BD06781 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.05 | 0.200       | 2.00  | 2.05 | 0.032               | 2.07     | 1.80 to 2.20      | 102 | 90.0 to 110  | 0.00  | 15.0          |
| BD06780 | Solids, Dissolved         | mg/L       | 1.00 | 25.0        |       |      | 329                 | 51.0     | 40.0 to 60.0      |     |              | 2.70  | 10.0          |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-12V

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 12:35  
**Customer ID:**  
**Submittal Date:** 4/5/23 14:11

**Laboratory ID Number:** BD06776

| Name                                | Prepared     | Analyzed      | Vio Spec            | DF    | Results                             | Units | MDL      | RL         | Q |
|-------------------------------------|--------------|---------------|---------------------|-------|-------------------------------------|-------|----------|------------|---|
| <b>Analytical Method: EPA 200.7</b> |              |               | <b>Analyst: ABB</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Boron, Total                      | 4/7/23 14:10 | 4/11/23 11:13 |                     | 1.015 | 0.0809                              | mg/L  | 0.030000 | 0.1015     | J |
| * Calcium, Total                    | 4/7/23 14:10 | 4/11/23 11:13 |                     | 1.015 | 20.3                                | mg/L  | 0.070035 | 0.406      |   |
| * Iron, Total                       | 4/7/23 14:10 | 4/11/23 13:19 |                     | 101.5 | 84.4                                | mg/L  | 0.8120   | 4.06       |   |
| * Lithium, Total                    | 4/7/23 14:10 | 4/11/23 11:13 |                     | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |
| * Magnesium, Total                  | 4/7/23 14:10 | 4/11/23 11:13 |                     | 1.015 | 14.2                                | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Total                 | 4/7/23 14:10 | 4/11/23 11:13 |                     | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Total (calc.)             | 4/7/23 14:10 | 4/11/23 11:13 |                     | 1     | 14.6                                | mg/L  |          |            |   |
| * Silicon, Total                    | 4/7/23 14:10 | 4/11/23 11:13 |                     | 1.015 | 6.82                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Total                     | 4/7/23 14:10 | 4/11/23 13:19 |                     | 101.5 | 43.1                                | mg/L  | 4.060    | 40.6       |   |
| <b>Analytical Method: EPA 200.7</b> |              |               | <b>Analyst: ABB</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Boron, Dissolved                  | 4/7/23 11:45 | 4/12/23 11:14 |                     | 1.015 | 0.0872                              | mg/L  | 0.030000 | 0.1015     | J |
| * Calcium, Dissolved                | 4/7/23 11:45 | 4/12/23 11:14 |                     | 1.015 | 20.1                                | mg/L  | 0.070035 | 0.406      |   |
| * Iron, Dissolved                   | 4/7/23 11:45 | 4/12/23 13:21 |                     | 101.5 | 84.2                                | mg/L  | 0.8120   | 4.06       |   |
| * Lithium, Dissolved                | 4/7/23 11:45 | 4/12/23 11:14 |                     | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |
| * Magnesium, Dissolved              | 4/7/23 11:45 | 4/12/23 11:14 |                     | 1.015 | 14.3                                | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Dissolved             | 4/7/23 11:45 | 4/12/23 11:14 |                     | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Dissolved (calc.)         | 4/7/23 11:45 | 4/12/23 11:14 |                     | 1     | 14.4                                | mg/L  |          |            |   |
| * Silicon, Dissolved                | 4/7/23 11:45 | 4/12/23 11:14 |                     | 1.015 | 6.71                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Dissolved                 | 4/7/23 11:45 | 4/12/23 13:21 |                     | 101.5 | 42.1                                | mg/L  | 4.060    | 40.6       |   |
| <b>Analytical Method: EPA 200.8</b> |              |               | <b>Analyst: DLJ</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Antimony, Total                   | 4/7/23 14:10 | 4/7/23 16:36  |                     | 1.015 | Not Detected                        | mg/L  | 0.000710 | 0.001015   | U |
| * Aluminum, Total                   | 4/7/23 14:10 | 4/7/23 16:36  |                     | 1.015 | Not Detected                        | mg/L  | 0.009135 | 0.05075    | U |
| * Arsenic, Total                    | 4/7/23 14:10 | 4/7/23 16:36  |                     | 1.015 | 0.0214                              | mg/L  | 0.000112 | 0.000203   |   |
| * Barium, Total                     | 4/7/23 14:10 | 4/7/23 16:36  |                     | 1.015 | 0.0978                              | mg/L  | 0.000508 | 0.001015   |   |
| * Beryllium, Total                  | 4/7/23 14:10 | 4/7/23 16:36  |                     | 1.015 | Not Detected                        | mg/L  | 0.000406 | 0.001015   | U |
| * Cadmium, Total                    | 4/7/23 14:10 | 4/7/23 16:36  |                     | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |
| * Chromium, Total                   | 4/7/23 14:10 | 4/7/23 16:36  |                     | 1.015 | 0.000978                            | mg/L  | 0.000203 | 0.001015   | J |
| * Cobalt, Total                     | 4/7/23 14:10 | 4/7/23 16:36  |                     | 1.015 | 0.00154                             | mg/L  | 0.000068 | 0.000203   |   |
| * Lead, Total                       | 4/7/23 14:10 | 4/7/23 16:36  |                     | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |
| * Manganese, Total                  | 4/7/23 14:10 | 4/7/23 16:36  |                     | 1.015 | 1.16                                | mg/L  | 0.000152 | 0.001015   |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-12V

**Location Code:** WMWBARAP

**Collected:** 4/4/23 12:35

**Customer ID:**

**Submittal Date:** 4/5/23 14:11

**Laboratory ID Number:** BD06776

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/7/23 14:10  | 4/7/23 16:36        |          | 1.015 | 2.68         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/7/23 14:10  | 4/7/23 16:36        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/7/23 14:10  | 4/7/23 16:36        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:31        |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:31        |          | 1.015 | Not Detected | mg/L       | 0.009135 | 0.05075  | U |
| * Arsenic, Dissolved                   | 4/7/23 11:45  | 4/7/23 13:31        |          | 1.015 | 0.0224       | mg/L       | 0.000112 | 0.000203 |   |
| * Barium, Dissolved                    | 4/7/23 11:45  | 4/7/23 13:31        |          | 1.015 | 0.0952       | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/7/23 11:45  | 4/7/23 13:31        |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/7/23 11:45  | 4/7/23 13:31        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:31        |          | 1.015 | 0.000961     | mg/L       | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved                    | 4/7/23 11:45  | 4/7/23 13:31        |          | 1.015 | 0.00160      | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/7/23 11:45  | 4/7/23 13:31        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/7/23 11:45  | 4/7/23 13:31        |          | 1.015 | 1.18         | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/7/23 11:45  | 4/7/23 13:31        |          | 1.015 | 2.54         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:31        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:31        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/11/23 18:35 | 4/12/23 00:35       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/6/23 09:46  | 4/6/23 09:46        |          | 1     | 0.256        | mg/L as N  | 0.20     | 0.3      | J |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/17/23 10:54 | 4/17/23 14:05       |          | 1     | 203          | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/7/23 10:42  | 4/10/23 13:50       |          | 1     | 343          | mg/L       |          | 25       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/17/23 10:54 | 4/17/23 14:05       |          | 1     | 203          | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 4/17/23 10:54 | 4/17/23 14:05       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/12/23 10:45 | 4/12/23 10:45       |          | 1     | 14.6         | mg/L       | 1.00     | 2        |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-12V

**Location Code:** WMWBARAP

**Collected:** 4/4/23 12:35

**Customer ID:**

**Submittal Date:** 4/5/23 14:11

**Laboratory ID Number:** BD06776

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Chloride                                   | 4/12/23 12:13 | 4/12/23 12:13       |          | 2  | 26.3    | mg/L  | 1.00 | 1     |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Fluoride                                   | 4/13/23 11:13 | 4/13/23 11:13       |          | 1  | 0.126   | mg/L  | 0.06 | 0.125 |    |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |         |       |      |       |    |
| * Sulfate                                    | 4/6/23 11:18  | 4/6/23 11:18        |          | 3  | 85.5    | mg/L  | 1.8  | 6     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: TJD</b> |          |    |         |       |      |       |    |
| Conductivity                                 | 4/4/23 12:30  | 4/4/23 12:30        |          |    | 615.08  | uS/cm |      |       | FA |
| pH   | 4/4/23 12:30  | 4/4/23 12:30        |          |    | 6.22    | SU    |      |       | FA |
| Temperature                                  | 4/4/23 12:30  | 4/4/23 12:30        |          |    | 21.36   | C     |      |       | FA |
| Turbidity                                    | 4/4/23 12:30  | 4/4/23 12:30        |          |    | 1.78    | NTU   |      |       | FA |
| Sulfide                                      | 4/4/23 12:30  | 4/4/23 12:30        |          |    | 0       | mg/L  |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/4/23 12:35  
**Customer ID:**  
**Delivery Date:** 4/5/23 14:11

**Description:** Barry Ash Pond - MW-12V

**Laboratory ID Number:** BD06776

| Sample  | Analysis             | Units | MB         | MB       |       |        |        | Standard |                 | Rec   |             | Prec  | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|-------|-------------|-------|-------|
|         |                      |       |            | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec   | Limit       |       |       |
| BD06829 | Aluminum, Dissolved  | mg/L  | 0.0000353  | 0.0198   | 0.100 | 0.101  | 0.102  | 0.0999   | 0.0850 to 0.115 | 101   | 70.0 to 130 | 0.985 | 20.0  |
| BD06828 | Aluminum, Total      | mg/L  | 0.000609   | 0.0198   | 0.100 | 0.139  | 0.139  | 0.103    | 0.0850 to 0.115 | 99.8  | 70.0 to 130 | 0.00  | 20.0  |
| BD06829 | Antimony, Dissolved  | mg/L  | 0.000377   | 0.00100  | 0.100 | 0.0881 | 0.0905 | 0.0898   | 0.0850 to 0.115 | 88.1  | 70.0 to 130 | 2.69  | 20.0  |
| BD06828 | Antimony, Total      | mg/L  | 0.000237   | 0.00100  | 0.100 | 0.0875 | 0.0922 | 0.0867   | 0.0850 to 0.115 | 87.5  | 70.0 to 130 | 5.23  | 20.0  |
| BD06829 | Arsenic, Dissolved   | mg/L  | 0.0000113  | 0.000200 | 0.100 | 0.121  | 0.124  | 0.0990   | 0.0850 to 0.115 | 98.1  | 70.0 to 130 | 2.45  | 20.0  |
| BD06828 | Arsenic, Total       | mg/L  | 0.0000156  | 0.000200 | 0.100 | 0.0969 | 0.0996 | 0.0998   | 0.0850 to 0.115 | 95.8  | 70.0 to 130 | 2.75  | 20.0  |
| BD06829 | Barium, Dissolved    | mg/L  | 0.0000105  | 0.00100  | 0.100 | 0.210  | 0.210  | 0.0944   | 0.0850 to 0.115 | 93.0  | 70.0 to 130 | 0.00  | 20.0  |
| BD06828 | Barium, Total        | mg/L  | -0.0000063 | 0.00100  | 0.100 | 1.14   | 1.19   | 0.0923   | 0.0850 to 0.115 | 30.0  | 70.0 to 130 | 4.29  | 20.0  |
| BD06829 | Beryllium, Dissolved | mg/L  | 0.0000117  | 0.000880 | 0.100 | 0.0899 | 0.0944 | 0.0908   | 0.0850 to 0.115 | 89.9  | 70.0 to 130 | 4.88  | 20.0  |
| BD06828 | Beryllium, Total     | mg/L  | 0.0000000  | 0.000880 | 0.100 | 0.0921 | 0.0959 | 0.0944   | 0.0850 to 0.115 | 92.1  | 70.0 to 130 | 4.04  | 20.0  |
| BD06829 | Boron, Dissolved     | mg/L  | -0.000075  | 0.0650   | 1.00  | 1.01   | 1.06   | 1.00     | 0.850 to 1.15   | 96.4  | 70.0 to 130 | 4.83  | 20.0  |
| BD06828 | Boron, Total         | mg/L  | -0.000537  | 0.0650   | 1.00  | 1.35   | 1.34   | 1.02     | 0.850 to 1.15   | 106   | 70.0 to 130 | 0.743 | 20.0  |
| BD06829 | Cadmium, Dissolved   | mg/L  | 0.0000046  | 0.000147 | 0.100 | 0.0963 | 0.0981 | 0.0982   | 0.0850 to 0.115 | 96.3  | 70.0 to 130 | 1.85  | 20.0  |
| BD06828 | Cadmium, Total       | mg/L  | 0.0000043  | 0.000147 | 0.100 | 0.0895 | 0.0918 | 0.0962   | 0.0850 to 0.115 | 89.4  | 70.0 to 130 | 2.54  | 20.0  |
| BD06829 | Calcium, Dissolved   | mg/L  | -0.00493   | 0.152    | 5.00  | 14.7   | 14.6   | 4.94     | 4.25 to 5.75    | 92.0  | 70.0 to 130 | 0.683 | 20.0  |
| BD06828 | Calcium, Total       | mg/L  | -0.0178    | 0.152    | 5.00  | 85.0   | 86.4   | 5.00     | 4.25 to 5.75    | 36.0  | 70.0 to 130 | 1.63  | 20.0  |
| BD06827 | Chloride             | mg/L  | 0.0514     | 1.00     | 800   | 1580   | 1590   | 10.2     | 9.00 to 11.0    | 105   | 80.0 to 120 | 0.631 | 20.0  |
| BD06829 | Chromium, Dissolved  | mg/L  | -0.0000370 | 0.000440 | 0.100 | 0.0967 | 0.0995 | 0.0995   | 0.0850 to 0.115 | 96.7  | 70.0 to 130 | 2.85  | 20.0  |
| BD06828 | Chromium, Total      | mg/L  | -0.0000476 | 0.000440 | 0.100 | 0.0926 | 0.0929 | 0.0965   | 0.0850 to 0.115 | 92.4  | 70.0 to 130 | 0.323 | 20.0  |
| BD06829 | Cobalt, Dissolved    | mg/L  | -0.0000017 | 0.000147 | 0.100 | 0.101  | 0.104  | 0.101    | 0.0850 to 0.115 | 100   | 70.0 to 130 | 2.93  | 20.0  |
| BD06828 | Cobalt, Total        | mg/L  | 0.0000042  | 0.000147 | 0.100 | 0.219  | 0.220  | 0.0997   | 0.0850 to 0.115 | 89.0  | 70.0 to 130 | 0.456 | 20.0  |
| BD06828 | Fluoride             | mg/L  | -0.00644   | 0.125    | 2.50  | 2.78   | 2.79   | 2.62     | 2.25 to 2.75    | 107   | 80.0 to 120 | 0.359 | 20.0  |
| BD06829 | Iron, Dissolved      | mg/L  | -0.00183   | 0.0176   | 0.2   | 60.3   | 60.4   | 0.195    | 0.170 to 0.230  | -50.0 | 70.0 to 130 | 0.166 | 20.0  |
| BD06828 | Iron, Total          | mg/L  | 0.000416   | 0.0176   | 0.2   | 0.648  | 0.649  | 0.200    | 0.170 to 0.230  | 98.0  | 70.0 to 130 | 0.154 | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/4/23 12:35

**Customer ID:**

**Delivery Date:** 4/5/23 14:11

**Description:** Barry Ash Pond - MW-12V

**Laboratory ID Number:** BD06776

| Sample  | Analysis               | Units | MB         |          | Spike | MS      | MSD     | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB         | Limit    |       |         |         | Standard | Limit              | Rec  | Limit       |       |       |
| BD06829 | Lead, Dissolved        | mg/L  | 0.0000118  | 0.000147 | 0.100 | 0.0948  | 0.0971  | 0.0971   | 0.0850 to 0.115    | 94.8 | 70.0 to 130 | 2.40  | 20.0  |
| BD06828 | Lead, Total            | mg/L  | 0.0000027  | 0.000147 | 0.100 | 0.0928  | 0.0958  | 0.0945   | 0.0850 to 0.115    | 92.8 | 70.0 to 130 | 3.18  | 20.0  |
| BD06829 | Lithium, Dissolved     | mg/L  | 0.000245   | 0.0154   | 0.200 | 0.199   | 0.200   | 0.195    | 0.170 to 0.230     | 99.5 | 70.0 to 130 | 0.501 | 20.0  |
| BD06828 | Lithium, Total         | mg/L  | -0.000701  | 0.0154   | 0.200 | 0.220   | 0.221   | 0.199    | 0.170 to 0.230     | 110  | 70.0 to 130 | 0.454 | 20.0  |
| BD06829 | Magnesium, Dissolved   | mg/L  | 0.000      | 0.0462   | 5.00  | 9.49    | 9.46    | 4.93     | 4.25 to 5.75       | 93.2 | 70.0 to 130 | 0.317 | 20.0  |
| BD06828 | Magnesium, Total       | mg/L  | -0.00548   | 0.0462   | 5.00  | 77.6    | 75.3    | 4.93     | 4.25 to 5.75       | 102  | 70.0 to 130 | 3.01  | 20.0  |
| BD06829 | Manganese, Dissolved   | mg/L  | 0.0000167  | 0.00033  | 0.100 | 0.378   | 0.382   | 0.101    | 0.0850 to 0.115    | 98.0 | 70.0 to 130 | 1.05  | 20.0  |
| BD06828 | Manganese, Total       | mg/L  | 0.000200   | 0.00033  | 0.100 | 4.77    | 4.92    | 0.0980   | 0.0850 to 0.115    | 70.0 | 70.0 to 130 | 3.10  | 20.0  |
| BD06828 | Mercury, Total by CVAA | mg/L  | 2.000E-05  | 0.000500 | 0.004 | 0.00397 | 0.00409 | 0.00403  | 0.00340 to 0.00460 | 99.2 | 70.0 to 130 | 2.98  | 20.0  |
| BD06829 | Molybdenum, Dissolved  | mg/L  | -0.000152  | 0.0100   | 0.2   | 0.194   | 0.196   | 0.195    | 0.170 to 0.230     | 97.0 | 70.0 to 130 | 1.03  | 20.0  |
| BD06828 | Molybdenum, Total      | mg/L  | -0.001     | 0.0100   | 0.2   | 0.202   | 0.201   | 0.201    | 0.170 to 0.230     | 101  | 70.0 to 130 | 0.496 | 20.0  |
| BD06829 | Potassium, Dissolved   | mg/L  | 0.00935    | 0.367    | 10.0  | 11.2    | 11.3    | 9.82     | 8.50 to 11.5       | 97.4 | 70.0 to 130 | 0.889 | 20.0  |
| BD06828 | Potassium, Total       | mg/L  | -0.00778   | 0.367    | 10.0  | 25.9    | 26.1    | 9.95     | 8.50 to 11.5       | 88.0 | 70.0 to 130 | 0.769 | 20.0  |
| BD06829 | Selenium, Dissolved    | mg/L  | 0.000102   | 0.00100  | 0.100 | 0.102   | 0.103   | 0.0997   | 0.0850 to 0.115    | 102  | 70.0 to 130 | 0.976 | 20.0  |
| BD06828 | Selenium, Total        | mg/L  | 0.0000454  | 0.00100  | 0.100 | 0.0951  | 0.0968  | 0.100    | 0.0850 to 0.115    | 95.1 | 70.0 to 130 | 1.77  | 20.0  |
| BD06829 | Silicon, Dissolved     | mg/L  | 0.000229   | 0.0440   | 1.00  | 8.70    | 8.71    | 0.997    | 0.850 to 1.15      | 96.0 | 70.0 to 130 | 0.115 | 20.0  |
| BD06828 | Silicon, Total         | mg/L  | -0.000048  | 0.0440   | 1.00  | 6.40    | 6.36    | 1.02     | 0.850 to 1.15      | 101  | 70.0 to 130 | 0.627 | 20.0  |
| BD06829 | Sodium, Dissolved      | mg/L  | 0.0149     | 0.0880   | 5.00  | 21.1    | 20.8    | 5.23     | 4.25 to 5.75       | 96.0 | 70.0 to 130 | 1.43  | 20.0  |
| BD06828 | Sodium, Total          | mg/L  | 0.000332   | 0.0880   | 5.00  | 761     | 761     | 4.87     | 4.25 to 5.75       | 120  | 70.0 to 130 | 0.00  | 20.0  |
| BD06781 | Sulfate                | mg/L  | 0.358      | 2.0      | 20.0  | 20.2    | 20.0    | 20.4     | 18.0 to 22.0       | 101  | 80.0 to 120 | 0.995 | 20.0  |
| BD06829 | Thallium, Dissolved    | mg/L  | -0.0000001 | 0.000147 | 0.100 | 0.0977  | 0.0992  | 0.0992   | 0.0850 to 0.115    | 97.7 | 70.0 to 130 | 1.52  | 20.0  |
| BD06828 | Thallium, Total        | mg/L  | 0.0000054  | 0.000147 | 0.100 | 0.0959  | 0.0990  | 0.0978   | 0.0850 to 0.115    | 95.5 | 70.0 to 130 | 3.18  | 20.0  |
| BD06828 | Total Organic Carbon   | mg/L  | 0.108      | 1.00     | 10.0  | 11.0    | 10.6    | 23.5     |                    | 94.6 | 80.0 to 120 | 3.70  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/4/23 12:35

**Customer ID:**

**Delivery Date:** 4/5/23 14:11

**Description:** Barry Ash Pond - MW-12V

**Laboratory ID Number:** BD06776

| Sample  | Analysis                  | Units      | MB   | MB Limit | Spike | MS   | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit   | Prec  | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|----------|----------------|-----|-------------|-------|------------|
| BD06780 | Alkalinity to pH 4.5      | mg CaCO3/L |      |          |       |      | 147              | 50.5     | 45.0 to 55.0   |     |             | 0.678 | 10.0       |
| BD06781 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.05 | 0.200    | 2.00  | 2.05 | 0.032            | 2.07     | 1.80 to 2.20   | 102 | 90.0 to 110 | 0.00  | 15.0       |
| BD06780 | Solids, Dissolved         | mg/L       | 1.00 | 25.0     |       |      | 329              | 51.0     | 40.0 to 60.0   |     |             | 2.70  | 10.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-12V DUP

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 12:35  
**Customer ID:**  
**Submittal Date:** 4/5/23 14:11

**Laboratory ID Number:** BD06777

| Name                                | Prepared     | Analyzed            | Vio Spec | DF    | Results                             | Units | MDL      | RL         | Q |
|-------------------------------------|--------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| <b>Analytical Method: EPA 200.7</b> |              | <b>Analyst: ABB</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Boron, Total                      | 4/7/23 14:10 | 4/11/23 11:17       |          | 1.015 | 0.0808                              | mg/L  | 0.030000 | 0.1015     | J |
| * Calcium, Total                    | 4/7/23 14:10 | 4/11/23 11:17       |          | 1.015 | 20.4                                | mg/L  | 0.070035 | 0.406      |   |
| * Iron, Total                       | 4/7/23 14:10 | 4/11/23 13:23       |          | 101.5 | 85.7                                | mg/L  | 0.8120   | 4.06       |   |
| * Lithium, Total                    | 4/7/23 14:10 | 4/11/23 11:17       |          | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |
| * Magnesium, Total                  | 4/7/23 14:10 | 4/11/23 11:17       |          | 1.015 | 14.1                                | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Total                 | 4/7/23 14:10 | 4/11/23 11:17       |          | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Total (calc.)             | 4/7/23 14:10 | 4/11/23 11:17       |          | 1     | 14.5                                | mg/L  |          |            |   |
| * Silicon, Total                    | 4/7/23 14:10 | 4/11/23 11:17       |          | 1.015 | 6.77                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Total                     | 4/7/23 14:10 | 4/11/23 13:23       |          | 101.5 | 41.5                                | mg/L  | 4.060    | 40.6       |   |
| <b>Analytical Method: EPA 200.7</b> |              | <b>Analyst: ABB</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Boron, Dissolved                  | 4/7/23 11:45 | 4/12/23 11:17       |          | 1.015 | 0.0873                              | mg/L  | 0.030000 | 0.1015     | J |
| * Calcium, Dissolved                | 4/7/23 11:45 | 4/12/23 11:17       |          | 1.015 | 20.3                                | mg/L  | 0.070035 | 0.406      |   |
| * Iron, Dissolved                   | 4/7/23 11:45 | 4/12/23 13:24       |          | 101.5 | 83.5                                | mg/L  | 0.8120   | 4.06       |   |
| * Lithium, Dissolved                | 4/7/23 11:45 | 4/12/23 11:17       |          | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |
| * Magnesium, Dissolved              | 4/7/23 11:45 | 4/12/23 11:17       |          | 1.015 | 14.1                                | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Dissolved             | 4/7/23 11:45 | 4/12/23 11:17       |          | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Dissolved (calc.)         | 4/7/23 11:45 | 4/12/23 11:17       |          | 1     | 14.4                                | mg/L  |          |            |   |
| * Silicon, Dissolved                | 4/7/23 11:45 | 4/12/23 11:17       |          | 1.015 | 6.75                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Dissolved                 | 4/7/23 11:45 | 4/12/23 13:24       |          | 101.5 | 42.7                                | mg/L  | 4.060    | 40.6       |   |
| <b>Analytical Method: EPA 200.8</b> |              | <b>Analyst: DLJ</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Antimony, Total                   | 4/7/23 14:10 | 4/7/23 16:40        |          | 1.015 | Not Detected                        | mg/L  | 0.000710 | 0.001015   | U |
| * Aluminum, Total                   | 4/7/23 14:10 | 4/7/23 16:40        |          | 1.015 | Not Detected                        | mg/L  | 0.009135 | 0.05075    | U |
| * Arsenic, Total                    | 4/7/23 14:10 | 4/7/23 16:40        |          | 1.015 | 0.0208                              | mg/L  | 0.000112 | 0.000203   |   |
| * Barium, Total                     | 4/7/23 14:10 | 4/7/23 16:40        |          | 1.015 | 0.0971                              | mg/L  | 0.000508 | 0.001015   |   |
| * Beryllium, Total                  | 4/7/23 14:10 | 4/7/23 16:40        |          | 1.015 | Not Detected                        | mg/L  | 0.000406 | 0.001015   | U |
| * Cadmium, Total                    | 4/7/23 14:10 | 4/7/23 16:40        |          | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |
| * Chromium, Total                   | 4/7/23 14:10 | 4/7/23 16:40        |          | 1.015 | 0.000962                            | mg/L  | 0.000203 | 0.001015   | J |
| * Cobalt, Total                     | 4/7/23 14:10 | 4/7/23 16:40        |          | 1.015 | 0.00164                             | mg/L  | 0.000068 | 0.000203   |   |
| * Lead, Total                       | 4/7/23 14:10 | 4/7/23 16:40        |          | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |
| * Manganese, Total                  | 4/7/23 14:10 | 4/7/23 16:40        |          | 1.015 | 1.17                                | mg/L  | 0.000152 | 0.001015   |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-12V DUP

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 12:35  
**Customer ID:**  
**Submittal Date:** 4/5/23 14:11

**Laboratory ID Number:** BD06777

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/7/23 14:10  | 4/7/23 16:40        |          | 1.015 | 2.60         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/7/23 14:10  | 4/7/23 16:40        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/7/23 14:10  | 4/7/23 16:40        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:34        |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:34        |          | 1.015 | Not Detected | mg/L       | 0.009135 | 0.05075  | U |
| * Arsenic, Dissolved                   | 4/7/23 11:45  | 4/7/23 13:34        |          | 1.015 | 0.0220       | mg/L       | 0.000112 | 0.000203 |   |
| * Barium, Dissolved                    | 4/7/23 11:45  | 4/7/23 13:34        |          | 1.015 | 0.0943       | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/7/23 11:45  | 4/7/23 13:34        |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/7/23 11:45  | 4/7/23 13:34        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:34        |          | 1.015 | 0.000981     | mg/L       | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved                    | 4/7/23 11:45  | 4/7/23 13:34        |          | 1.015 | 0.00168      | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/7/23 11:45  | 4/7/23 13:34        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/7/23 11:45  | 4/7/23 13:34        |          | 1.015 | 1.17         | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/7/23 11:45  | 4/7/23 13:34        |          | 1.015 | 2.59         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:34        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:34        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/11/23 18:35 | 4/12/23 00:39       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/6/23 09:48  | 4/6/23 09:48        |          | 1     | 0.251        | mg/L as N  | 0.20     | 0.3      | J |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/17/23 10:54 | 4/17/23 14:05       |          | 1     | 207          | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/7/23 10:42  | 4/10/23 13:50       |          | 1     | 345          | mg/L       |          | 25       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/17/23 10:54 | 4/17/23 14:05       |          | 1     | 207          | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 4/17/23 10:54 | 4/17/23 14:05       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/12/23 11:03 | 4/12/23 11:03       |          | 1     | 14.3         | mg/L       | 1.00     | 2        |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-12V DUP

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 12:35  
**Customer ID:**  
**Submittal Date:** 4/5/23 14:11

**Laboratory ID Number:** BD06777

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Chloride                                   | 4/12/23 12:14 | 4/12/23 12:14       |          | 2  | 25.7    | mg/L  | 1.00 | 1     |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Fluoride                                   | 4/13/23 11:14 | 4/13/23 11:14       |          | 1  | 0.0996  | mg/L  | 0.06 | 0.125 | J  |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |         |       |      |       |    |
| * Sulfate                                    | 4/6/23 11:19  | 4/6/23 11:19        |          | 3  | 88.4    | mg/L  | 1.8  | 6     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: TJD</b> |          |    |         |       |      |       |    |
| Conductivity                                 | 4/4/23 12:30  | 4/4/23 12:30        |          |    | 615.08  | uS/cm |      |       | FA |
| pH   | 4/4/23 12:30  | 4/4/23 12:30        |          |    | 6.22    | SU    |      |       | FA |
| Temperature                                  | 4/4/23 12:30  | 4/4/23 12:30        |          |    | 21.36   | C     |      |       | FA |
| Turbidity                                    | 4/4/23 12:30  | 4/4/23 12:30        |          |    | 1.78    | NTU   |      |       | FA |
| Sulfide                                      | 4/4/23 12:30  | 4/4/23 12:30        |          |    | 0       | mg/L  |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/4/23 12:35

**Customer ID:**

**Delivery Date:** 4/5/23 14:11

**Description:** Barry Ash Pond - MW-12V DUP

**Laboratory ID Number:** BD06777

| Sample  | Analysis             | Units | MB         | MB       |       |        |        | Standard |                 | Rec   |             |       | Prec Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|-------|-------------|-------|------------|
|         |                      |       |            | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec   | Limit       | Prec  |            |
| BD06829 | Aluminum, Dissolved  | mg/L  | 0.0000353  | 0.0198   | 0.100 | 0.101  | 0.102  | 0.0999   | 0.0850 to 0.115 | 101   | 70.0 to 130 | 0.985 | 20.0       |
| BD06828 | Aluminum, Total      | mg/L  | 0.000609   | 0.0198   | 0.100 | 0.139  | 0.139  | 0.103    | 0.0850 to 0.115 | 99.8  | 70.0 to 130 | 0.00  | 20.0       |
| BD06829 | Antimony, Dissolved  | mg/L  | 0.000377   | 0.00100  | 0.100 | 0.0881 | 0.0905 | 0.0898   | 0.0850 to 0.115 | 88.1  | 70.0 to 130 | 2.69  | 20.0       |
| BD06828 | Antimony, Total      | mg/L  | 0.000237   | 0.00100  | 0.100 | 0.0875 | 0.0922 | 0.0867   | 0.0850 to 0.115 | 87.5  | 70.0 to 130 | 5.23  | 20.0       |
| BD06829 | Arsenic, Dissolved   | mg/L  | 0.0000113  | 0.000200 | 0.100 | 0.121  | 0.124  | 0.0990   | 0.0850 to 0.115 | 98.1  | 70.0 to 130 | 2.45  | 20.0       |
| BD06828 | Arsenic, Total       | mg/L  | 0.0000156  | 0.000200 | 0.100 | 0.0969 | 0.0996 | 0.0998   | 0.0850 to 0.115 | 95.8  | 70.0 to 130 | 2.75  | 20.0       |
| BD06829 | Barium, Dissolved    | mg/L  | 0.0000105  | 0.00100  | 0.100 | 0.210  | 0.210  | 0.0944   | 0.0850 to 0.115 | 93.0  | 70.0 to 130 | 0.00  | 20.0       |
| BD06828 | Barium, Total        | mg/L  | -0.0000063 | 0.00100  | 0.100 | 1.14   | 1.19   | 0.0923   | 0.0850 to 0.115 | 30.0  | 70.0 to 130 | 4.29  | 20.0       |
| BD06829 | Beryllium, Dissolved | mg/L  | 0.0000117  | 0.000880 | 0.100 | 0.0899 | 0.0944 | 0.0908   | 0.0850 to 0.115 | 89.9  | 70.0 to 130 | 4.88  | 20.0       |
| BD06828 | Beryllium, Total     | mg/L  | 0.0000000  | 0.000880 | 0.100 | 0.0921 | 0.0959 | 0.0944   | 0.0850 to 0.115 | 92.1  | 70.0 to 130 | 4.04  | 20.0       |
| BD06829 | Boron, Dissolved     | mg/L  | -0.000075  | 0.0650   | 1.00  | 1.01   | 1.06   | 1.00     | 0.850 to 1.15   | 96.4  | 70.0 to 130 | 4.83  | 20.0       |
| BD06828 | Boron, Total         | mg/L  | -0.000537  | 0.0650   | 1.00  | 1.35   | 1.34   | 1.02     | 0.850 to 1.15   | 106   | 70.0 to 130 | 0.743 | 20.0       |
| BD06829 | Cadmium, Dissolved   | mg/L  | 0.0000046  | 0.000147 | 0.100 | 0.0963 | 0.0981 | 0.0982   | 0.0850 to 0.115 | 96.3  | 70.0 to 130 | 1.85  | 20.0       |
| BD06828 | Cadmium, Total       | mg/L  | 0.0000043  | 0.000147 | 0.100 | 0.0895 | 0.0918 | 0.0962   | 0.0850 to 0.115 | 89.4  | 70.0 to 130 | 2.54  | 20.0       |
| BD06829 | Calcium, Dissolved   | mg/L  | -0.00493   | 0.152    | 5.00  | 14.7   | 14.6   | 4.94     | 4.25 to 5.75    | 92.0  | 70.0 to 130 | 0.683 | 20.0       |
| BD06828 | Calcium, Total       | mg/L  | -0.0178    | 0.152    | 5.00  | 85.0   | 86.4   | 5.00     | 4.25 to 5.75    | 36.0  | 70.0 to 130 | 1.63  | 20.0       |
| BD06827 | Chloride             | mg/L  | 0.0514     | 1.00     | 800   | 1580   | 1590   | 10.2     | 9.00 to 11.0    | 105   | 80.0 to 120 | 0.631 | 20.0       |
| BD06829 | Chromium, Dissolved  | mg/L  | -0.0000370 | 0.000440 | 0.100 | 0.0967 | 0.0995 | 0.0995   | 0.0850 to 0.115 | 96.7  | 70.0 to 130 | 2.85  | 20.0       |
| BD06828 | Chromium, Total      | mg/L  | -0.0000476 | 0.000440 | 0.100 | 0.0926 | 0.0929 | 0.0965   | 0.0850 to 0.115 | 92.4  | 70.0 to 130 | 0.323 | 20.0       |
| BD06829 | Cobalt, Dissolved    | mg/L  | -0.0000017 | 0.000147 | 0.100 | 0.101  | 0.104  | 0.101    | 0.0850 to 0.115 | 100   | 70.0 to 130 | 2.93  | 20.0       |
| BD06828 | Cobalt, Total        | mg/L  | 0.0000042  | 0.000147 | 0.100 | 0.219  | 0.220  | 0.0997   | 0.0850 to 0.115 | 89.0  | 70.0 to 130 | 0.456 | 20.0       |
| BD06828 | Fluoride             | mg/L  | -0.00644   | 0.125    | 2.50  | 2.78   | 2.79   | 2.62     | 2.25 to 2.75    | 107   | 80.0 to 120 | 0.359 | 20.0       |
| BD06829 | Iron, Dissolved      | mg/L  | -0.00183   | 0.0176   | 0.2   | 60.3   | 60.4   | 0.195    | 0.170 to 0.230  | -50.0 | 70.0 to 130 | 0.166 | 20.0       |
| BD06828 | Iron, Total          | mg/L  | 0.000416   | 0.0176   | 0.2   | 0.648  | 0.649  | 0.200    | 0.170 to 0.230  | 98.0  | 70.0 to 130 | 0.154 | 20.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/4/23 12:35  
**Customer ID:**  
**Delivery Date:** 4/5/23 14:11

**Description:** Barry Ash Pond - MW-12V DUP

**Laboratory ID Number:** BD06777

| Sample  | Analysis               | Units | MB         | MB       |       |         |         | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       |            | Limit    | Spike | MS      | MSD     | Standard | Limit              | Rec  | Limit       |       |       |
| BD06829 | Lead, Dissolved        | mg/L  | 0.0000118  | 0.000147 | 0.100 | 0.0948  | 0.0971  | 0.0971   | 0.0850 to 0.115    | 94.8 | 70.0 to 130 | 2.40  | 20.0  |
| BD06828 | Lead, Total            | mg/L  | 0.0000027  | 0.000147 | 0.100 | 0.0928  | 0.0958  | 0.0945   | 0.0850 to 0.115    | 92.8 | 70.0 to 130 | 3.18  | 20.0  |
| BD06829 | Lithium, Dissolved     | mg/L  | 0.000245   | 0.0154   | 0.200 | 0.199   | 0.200   | 0.195    | 0.170 to 0.230     | 99.5 | 70.0 to 130 | 0.501 | 20.0  |
| BD06828 | Lithium, Total         | mg/L  | -0.000701  | 0.0154   | 0.200 | 0.220   | 0.221   | 0.199    | 0.170 to 0.230     | 110  | 70.0 to 130 | 0.454 | 20.0  |
| BD06829 | Magnesium, Dissolved   | mg/L  | 0.000      | 0.0462   | 5.00  | 9.49    | 9.46    | 4.93     | 4.25 to 5.75       | 93.2 | 70.0 to 130 | 0.317 | 20.0  |
| BD06828 | Magnesium, Total       | mg/L  | -0.00548   | 0.0462   | 5.00  | 77.6    | 75.3    | 4.93     | 4.25 to 5.75       | 102  | 70.0 to 130 | 3.01  | 20.0  |
| BD06829 | Manganese, Dissolved   | mg/L  | 0.0000167  | 0.00033  | 0.100 | 0.378   | 0.382   | 0.101    | 0.0850 to 0.115    | 98.0 | 70.0 to 130 | 1.05  | 20.0  |
| BD06828 | Manganese, Total       | mg/L  | 0.000200   | 0.00033  | 0.100 | 4.77    | 4.92    | 0.0980   | 0.0850 to 0.115    | 70.0 | 70.0 to 130 | 3.10  | 20.0  |
| BD06828 | Mercury, Total by CVAA | mg/L  | 2.000E-05  | 0.000500 | 0.004 | 0.00397 | 0.00409 | 0.00403  | 0.00340 to 0.00460 | 99.2 | 70.0 to 130 | 2.98  | 20.0  |
| BD06829 | Molybdenum, Dissolved  | mg/L  | -0.000152  | 0.0100   | 0.2   | 0.194   | 0.196   | 0.195    | 0.170 to 0.230     | 97.0 | 70.0 to 130 | 1.03  | 20.0  |
| BD06828 | Molybdenum, Total      | mg/L  | -0.001     | 0.0100   | 0.2   | 0.202   | 0.201   | 0.201    | 0.170 to 0.230     | 101  | 70.0 to 130 | 0.496 | 20.0  |
| BD06829 | Potassium, Dissolved   | mg/L  | 0.00935    | 0.367    | 10.0  | 11.2    | 11.3    | 9.82     | 8.50 to 11.5       | 97.4 | 70.0 to 130 | 0.889 | 20.0  |
| BD06828 | Potassium, Total       | mg/L  | -0.00778   | 0.367    | 10.0  | 25.9    | 26.1    | 9.95     | 8.50 to 11.5       | 88.0 | 70.0 to 130 | 0.769 | 20.0  |
| BD06829 | Selenium, Dissolved    | mg/L  | 0.000102   | 0.00100  | 0.100 | 0.102   | 0.103   | 0.0997   | 0.0850 to 0.115    | 102  | 70.0 to 130 | 0.976 | 20.0  |
| BD06828 | Selenium, Total        | mg/L  | 0.0000454  | 0.00100  | 0.100 | 0.0951  | 0.0968  | 0.100    | 0.0850 to 0.115    | 95.1 | 70.0 to 130 | 1.77  | 20.0  |
| BD06829 | Silicon, Dissolved     | mg/L  | 0.000229   | 0.0440   | 1.00  | 8.70    | 8.71    | 0.997    | 0.850 to 1.15      | 96.0 | 70.0 to 130 | 0.115 | 20.0  |
| BD06828 | Silicon, Total         | mg/L  | -0.000048  | 0.0440   | 1.00  | 6.40    | 6.36    | 1.02     | 0.850 to 1.15      | 101  | 70.0 to 130 | 0.627 | 20.0  |
| BD06829 | Sodium, Dissolved      | mg/L  | 0.0149     | 0.0880   | 5.00  | 21.1    | 20.8    | 5.23     | 4.25 to 5.75       | 96.0 | 70.0 to 130 | 1.43  | 20.0  |
| BD06828 | Sodium, Total          | mg/L  | 0.000332   | 0.0880   | 5.00  | 761     | 761     | 4.87     | 4.25 to 5.75       | 120  | 70.0 to 130 | 0.00  | 20.0  |
| BD06781 | Sulfate                | mg/L  | 0.358      | 2.0      | 20.0  | 20.2    | 20.0    | 20.4     | 18.0 to 22.0       | 101  | 80.0 to 120 | 0.995 | 20.0  |
| BD06829 | Thallium, Dissolved    | mg/L  | -0.0000001 | 0.000147 | 0.100 | 0.0977  | 0.0992  | 0.0992   | 0.0850 to 0.115    | 97.7 | 70.0 to 130 | 1.52  | 20.0  |
| BD06828 | Thallium, Total        | mg/L  | 0.0000054  | 0.000147 | 0.100 | 0.0959  | 0.0990  | 0.0978   | 0.0850 to 0.115    | 95.5 | 70.0 to 130 | 3.18  | 20.0  |
| BD06828 | Total Organic Carbon   | mg/L  | 0.108      | 1.00     | 10.0  | 11.0    | 10.6    | 23.5     |                    | 94.6 | 80.0 to 120 | 3.70  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/4/23 12:35

**Customer ID:**

**Delivery Date:** 4/5/23 14:11

**Description:** Barry Ash Pond - MW-12V DUP

**Laboratory ID Number:** BD06777

| Sample  | Analysis                  | Units      | MB   | MB Limit | Spike | MS   | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit   | Prec  | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|----------|----------------|-----|-------------|-------|------------|
| BD06780 | Alkalinity to pH 4.5      | mg CaCO3/L |      |          |       |      | 147              | 50.5     | 45.0 to 55.0   |     |             | 0.678 | 10.0       |
| BD06781 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.05 | 0.200    | 2.00  | 2.05 | 0.032            | 2.07     | 1.80 to 2.20   | 102 | 90.0 to 110 | 0.00  | 15.0       |
| BD06780 | Solids, Dissolved         | mg/L       | 1.00 | 25.0     |       |      | 329              | 51.0     | 40.0 to 60.0   |     |             | 2.70  | 10.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-12

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 13:45  
**Customer ID:**  
**Submittal Date:** 4/5/23 14:11

**Laboratory ID Number:** BD06778

| Name                                | Prepared     | Analyzed            | Vio Spec | DF    | Results                             | Units | MDL      | RL         | Q |
|-------------------------------------|--------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| <b>Analytical Method: EPA 200.7</b> |              | <b>Analyst: ABB</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Boron, Total                      | 4/7/23 14:10 | 4/11/23 11:20       |          | 1.015 | 0.0629                              | mg/L  | 0.030000 | 0.1015     | J |
| * Calcium, Total                    | 4/7/23 14:10 | 4/11/23 11:20       |          | 1.015 | 23.3                                | mg/L  | 0.070035 | 0.406      |   |
| * Iron, Total                       | 4/7/23 14:10 | 4/11/23 13:26       |          | 101.5 | 63.2                                | mg/L  | 0.8120   | 4.06       |   |
| * Lithium, Total                    | 4/7/23 14:10 | 4/11/23 11:20       |          | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |
| * Magnesium, Total                  | 4/7/23 14:10 | 4/11/23 11:20       |          | 1.015 | 17.4                                | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Total                 | 4/7/23 14:10 | 4/11/23 11:20       |          | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Total (calc.)             | 4/7/23 14:10 | 4/11/23 11:20       |          | 1     | 16.5                                | mg/L  |          |            |   |
| * Silicon, Total                    | 4/7/23 14:10 | 4/11/23 11:20       |          | 1.015 | 7.70                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Total                     | 4/7/23 14:10 | 4/11/23 13:26       |          | 101.5 | 39.8                                | mg/L  | 4.060    | 40.6       | J |
| <b>Analytical Method: EPA 200.7</b> |              | <b>Analyst: ABB</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Boron, Dissolved                  | 4/7/23 11:45 | 4/12/23 11:21       |          | 1.015 | 0.0613                              | mg/L  | 0.030000 | 0.1015     | J |
| * Calcium, Dissolved                | 4/7/23 11:45 | 4/12/23 11:21       |          | 1.015 | 23.0                                | mg/L  | 0.070035 | 0.406      |   |
| * Iron, Dissolved                   | 4/7/23 11:45 | 4/12/23 13:27       |          | 101.5 | 61.6                                | mg/L  | 0.8120   | 4.06       |   |
| * Lithium, Dissolved                | 4/7/23 11:45 | 4/12/23 11:21       |          | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |
| * Magnesium, Dissolved              | 4/7/23 11:45 | 4/12/23 11:21       |          | 1.015 | 17.4                                | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Dissolved             | 4/7/23 11:45 | 4/12/23 11:21       |          | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Dissolved (calc.)         | 4/7/23 11:45 | 4/12/23 11:21       |          | 1     | 16.4                                | mg/L  |          |            |   |
| * Silicon, Dissolved                | 4/7/23 11:45 | 4/12/23 11:21       |          | 1.015 | 7.68                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Dissolved                 | 4/7/23 11:45 | 4/12/23 13:27       |          | 101.5 | 40.5                                | mg/L  | 4.060    | 40.6       | J |
| <b>Analytical Method: EPA 200.8</b> |              | <b>Analyst: DLJ</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Antimony, Total                   | 4/7/23 14:10 | 4/7/23 16:43        |          | 1.015 | Not Detected                        | mg/L  | 0.000710 | 0.001015   | U |
| * Aluminum, Total                   | 4/7/23 14:10 | 4/7/23 16:43        |          | 1.015 | 0.0392                              | mg/L  | 0.009135 | 0.05075    | J |
| * Arsenic, Total                    | 4/7/23 14:10 | 4/7/23 16:43        |          | 1.015 | 0.0218                              | mg/L  | 0.000112 | 0.000203   |   |
| * Barium, Total                     | 4/7/23 14:10 | 4/7/23 16:43        |          | 1.015 | 0.0740                              | mg/L  | 0.000508 | 0.001015   |   |
| * Beryllium, Total                  | 4/7/23 14:10 | 4/7/23 16:43        |          | 1.015 | Not Detected                        | mg/L  | 0.000406 | 0.001015   | U |
| * Cadmium, Total                    | 4/7/23 14:10 | 4/7/23 16:43        |          | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |
| * Chromium, Total                   | 4/7/23 14:10 | 4/7/23 16:43        |          | 1.015 | 0.00351                             | mg/L  | 0.000203 | 0.001015   |   |
| * Cobalt, Total                     | 4/7/23 14:10 | 4/7/23 16:43        |          | 1.015 | 0.00309                             | mg/L  | 0.000068 | 0.000203   |   |
| * Lead, Total                       | 4/7/23 14:10 | 4/7/23 16:43        |          | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |
| * Manganese, Total                  | 4/7/23 14:10 | 4/7/23 16:43        |          | 1.015 | 0.661                               | mg/L  | 0.000152 | 0.001015   |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-12

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 13:45  
**Customer ID:**  
**Submittal Date:** 4/5/23 14:11

**Laboratory ID Number:** BD06778

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/7/23 14:10  | 4/7/23 16:43        |          | 1.015 | 3.00         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/7/23 14:10  | 4/7/23 16:43        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/7/23 14:10  | 4/7/23 16:43        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:38        |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:38        |          | 1.015 | Not Detected | mg/L       | 0.009135 | 0.05075  | U |
| * Arsenic, Dissolved                   | 4/7/23 11:45  | 4/7/23 13:38        |          | 1.015 | 0.0229       | mg/L       | 0.000112 | 0.000203 |   |
| * Barium, Dissolved                    | 4/7/23 11:45  | 4/7/23 13:38        |          | 1.015 | 0.0727       | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/7/23 11:45  | 4/7/23 13:38        |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/7/23 11:45  | 4/7/23 13:38        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:38        |          | 1.015 | 0.00340      | mg/L       | 0.000203 | 0.001015 |   |
| * Cobalt, Dissolved                    | 4/7/23 11:45  | 4/7/23 13:38        |          | 1.015 | 0.00315      | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/7/23 11:45  | 4/7/23 13:38        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/7/23 11:45  | 4/7/23 13:38        |          | 1.015 | 0.671        | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/7/23 11:45  | 4/7/23 13:38        |          | 1.015 | 3.01         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:38        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:38        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/11/23 18:35 | 4/12/23 00:43       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/6/23 09:49  | 4/6/23 09:49        |          | 1     | Not Detected | mg/L as N  | 0.20     | 0.3      | U |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/17/23 10:54 | 4/17/23 14:05       |          | 1     | 204          | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/7/23 10:42  | 4/10/23 13:50       |          | 1     | 334          | mg/L       |          | 25       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/17/23 10:54 | 4/17/23 14:05       |          | 1     | 204          | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 4/17/23 10:54 | 4/17/23 14:05       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/12/23 11:18 | 4/12/23 11:18       |          | 1     | 20.5         | mg/L       | 1.00     | 2        |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-12

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 13:45  
**Customer ID:**  
**Submittal Date:** 4/5/23 14:11

**Laboratory ID Number:** BD06778

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Chloride                                   | 4/12/23 12:16 | 4/12/23 12:16       |          | 2  | 25.0    | mg/L  | 1.00 | 1     |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Fluoride                                   | 4/13/23 11:15 | 4/13/23 11:15       |          | 1  | 0.0810  | mg/L  | 0.06 | 0.125 | J  |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |         |       |      |       |    |
| * Sulfate                                    | 4/6/23 11:10  | 4/6/23 11:10        |          | 1  | 39.6    | mg/L  | 0.6  | 2     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: TJD</b> |          |    |         |       |      |       |    |
| Conductivity                                 | 4/4/23 13:41  | 4/4/23 13:41        |          |    | 584.50  | uS/cm |      |       | FA |
| pH   | 4/4/23 13:41  | 4/4/23 13:41        |          |    | 5.76    | SU    |      |       | FA |
| Temperature                                  | 4/4/23 13:41  | 4/4/23 13:41        |          |    | 21.30   | C     |      |       | FA |
| Turbidity                                    | 4/4/23 13:41  | 4/4/23 13:41        |          |    | 2       | NTU   |      |       | FA |
| Sulfide                                      | 4/4/23 13:41  | 4/4/23 13:41        |          |    | 0       | mg/L  |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/4/23 13:45  
**Customer ID:**  
**Delivery Date:** 4/5/23 14:11

**Description:** Barry Ash Pond - MW-12

**Laboratory ID Number:** BD06778

| Sample  | Analysis             | Units | MB         | MB       |       |        |        | Standard |                 | Rec   |             | Prec  | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|-------|-------------|-------|-------|
|         |                      |       |            | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec   | Limit       |       |       |
| BD06829 | Aluminum, Dissolved  | mg/L  | 0.0000353  | 0.0198   | 0.100 | 0.101  | 0.102  | 0.0999   | 0.0850 to 0.115 | 101   | 70.0 to 130 | 0.985 | 20.0  |
| BD06828 | Aluminum, Total      | mg/L  | 0.000609   | 0.0198   | 0.100 | 0.139  | 0.139  | 0.103    | 0.0850 to 0.115 | 99.8  | 70.0 to 130 | 0.00  | 20.0  |
| BD06829 | Antimony, Dissolved  | mg/L  | 0.000377   | 0.00100  | 0.100 | 0.0881 | 0.0905 | 0.0898   | 0.0850 to 0.115 | 88.1  | 70.0 to 130 | 2.69  | 20.0  |
| BD06828 | Antimony, Total      | mg/L  | 0.000237   | 0.00100  | 0.100 | 0.0875 | 0.0922 | 0.0867   | 0.0850 to 0.115 | 87.5  | 70.0 to 130 | 5.23  | 20.0  |
| BD06829 | Arsenic, Dissolved   | mg/L  | 0.0000113  | 0.000200 | 0.100 | 0.121  | 0.124  | 0.0990   | 0.0850 to 0.115 | 98.1  | 70.0 to 130 | 2.45  | 20.0  |
| BD06828 | Arsenic, Total       | mg/L  | 0.0000156  | 0.000200 | 0.100 | 0.0969 | 0.0996 | 0.0998   | 0.0850 to 0.115 | 95.8  | 70.0 to 130 | 2.75  | 20.0  |
| BD06829 | Barium, Dissolved    | mg/L  | 0.0000105  | 0.00100  | 0.100 | 0.210  | 0.210  | 0.0944   | 0.0850 to 0.115 | 93.0  | 70.0 to 130 | 0.00  | 20.0  |
| BD06828 | Barium, Total        | mg/L  | -0.0000063 | 0.00100  | 0.100 | 1.14   | 1.19   | 0.0923   | 0.0850 to 0.115 | 30.0  | 70.0 to 130 | 4.29  | 20.0  |
| BD06829 | Beryllium, Dissolved | mg/L  | 0.0000117  | 0.000880 | 0.100 | 0.0899 | 0.0944 | 0.0908   | 0.0850 to 0.115 | 89.9  | 70.0 to 130 | 4.88  | 20.0  |
| BD06828 | Beryllium, Total     | mg/L  | 0.0000000  | 0.000880 | 0.100 | 0.0921 | 0.0959 | 0.0944   | 0.0850 to 0.115 | 92.1  | 70.0 to 130 | 4.04  | 20.0  |
| BD06829 | Boron, Dissolved     | mg/L  | -0.000075  | 0.0650   | 1.00  | 1.01   | 1.06   | 1.00     | 0.850 to 1.15   | 96.4  | 70.0 to 130 | 4.83  | 20.0  |
| BD06828 | Boron, Total         | mg/L  | -0.000537  | 0.0650   | 1.00  | 1.35   | 1.34   | 1.02     | 0.850 to 1.15   | 106   | 70.0 to 130 | 0.743 | 20.0  |
| BD06829 | Cadmium, Dissolved   | mg/L  | 0.0000046  | 0.000147 | 0.100 | 0.0963 | 0.0981 | 0.0982   | 0.0850 to 0.115 | 96.3  | 70.0 to 130 | 1.85  | 20.0  |
| BD06828 | Cadmium, Total       | mg/L  | 0.0000043  | 0.000147 | 0.100 | 0.0895 | 0.0918 | 0.0962   | 0.0850 to 0.115 | 89.4  | 70.0 to 130 | 2.54  | 20.0  |
| BD06829 | Calcium, Dissolved   | mg/L  | -0.00493   | 0.152    | 5.00  | 14.7   | 14.6   | 4.94     | 4.25 to 5.75    | 92.0  | 70.0 to 130 | 0.683 | 20.0  |
| BD06828 | Calcium, Total       | mg/L  | -0.0178    | 0.152    | 5.00  | 85.0   | 86.4   | 5.00     | 4.25 to 5.75    | 36.0  | 70.0 to 130 | 1.63  | 20.0  |
| BD06827 | Chloride             | mg/L  | 0.0514     | 1.00     | 800   | 1580   | 1590   | 10.2     | 9.00 to 11.0    | 105   | 80.0 to 120 | 0.631 | 20.0  |
| BD06829 | Chromium, Dissolved  | mg/L  | -0.0000370 | 0.000440 | 0.100 | 0.0967 | 0.0995 | 0.0995   | 0.0850 to 0.115 | 96.7  | 70.0 to 130 | 2.85  | 20.0  |
| BD06828 | Chromium, Total      | mg/L  | -0.0000476 | 0.000440 | 0.100 | 0.0926 | 0.0929 | 0.0965   | 0.0850 to 0.115 | 92.4  | 70.0 to 130 | 0.323 | 20.0  |
| BD06829 | Cobalt, Dissolved    | mg/L  | -0.0000017 | 0.000147 | 0.100 | 0.101  | 0.104  | 0.101    | 0.0850 to 0.115 | 100   | 70.0 to 130 | 2.93  | 20.0  |
| BD06828 | Cobalt, Total        | mg/L  | 0.0000042  | 0.000147 | 0.100 | 0.219  | 0.220  | 0.0997   | 0.0850 to 0.115 | 89.0  | 70.0 to 130 | 0.456 | 20.0  |
| BD06828 | Fluoride             | mg/L  | -0.00644   | 0.125    | 2.50  | 2.78   | 2.79   | 2.62     | 2.25 to 2.75    | 107   | 80.0 to 120 | 0.359 | 20.0  |
| BD06829 | Iron, Dissolved      | mg/L  | -0.00183   | 0.0176   | 0.2   | 60.3   | 60.4   | 0.195    | 0.170 to 0.230  | -50.0 | 70.0 to 130 | 0.166 | 20.0  |
| BD06828 | Iron, Total          | mg/L  | 0.000416   | 0.0176   | 0.2   | 0.648  | 0.649  | 0.200    | 0.170 to 0.230  | 98.0  | 70.0 to 130 | 0.154 | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/4/23 13:45

**Customer ID:**

**Delivery Date:** 4/5/23 14:11

**Description:** Barry Ash Pond - MW-12

**Laboratory ID Number:** BD06778

| Sample  | Analysis               | Units | MB         |          | Spike | MS      | MSD     | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB         | Limit    |       |         |         | Standard | Limit              | Rec  | Limit       |       |       |
| BD06829 | Lead, Dissolved        | mg/L  | 0.0000118  | 0.000147 | 0.100 | 0.0948  | 0.0971  | 0.0971   | 0.0850 to 0.115    | 94.8 | 70.0 to 130 | 2.40  | 20.0  |
| BD06828 | Lead, Total            | mg/L  | 0.0000027  | 0.000147 | 0.100 | 0.0928  | 0.0958  | 0.0945   | 0.0850 to 0.115    | 92.8 | 70.0 to 130 | 3.18  | 20.0  |
| BD06829 | Lithium, Dissolved     | mg/L  | 0.000245   | 0.0154   | 0.200 | 0.199   | 0.200   | 0.195    | 0.170 to 0.230     | 99.5 | 70.0 to 130 | 0.501 | 20.0  |
| BD06828 | Lithium, Total         | mg/L  | -0.000701  | 0.0154   | 0.200 | 0.220   | 0.221   | 0.199    | 0.170 to 0.230     | 110  | 70.0 to 130 | 0.454 | 20.0  |
| BD06829 | Magnesium, Dissolved   | mg/L  | 0.000      | 0.0462   | 5.00  | 9.49    | 9.46    | 4.93     | 4.25 to 5.75       | 93.2 | 70.0 to 130 | 0.317 | 20.0  |
| BD06828 | Magnesium, Total       | mg/L  | -0.00548   | 0.0462   | 5.00  | 77.6    | 75.3    | 4.93     | 4.25 to 5.75       | 102  | 70.0 to 130 | 3.01  | 20.0  |
| BD06829 | Manganese, Dissolved   | mg/L  | 0.0000167  | 0.00033  | 0.100 | 0.378   | 0.382   | 0.101    | 0.0850 to 0.115    | 98.0 | 70.0 to 130 | 1.05  | 20.0  |
| BD06828 | Manganese, Total       | mg/L  | 0.000200   | 0.00033  | 0.100 | 4.77    | 4.92    | 0.0980   | 0.0850 to 0.115    | 70.0 | 70.0 to 130 | 3.10  | 20.0  |
| BD06828 | Mercury, Total by CVAA | mg/L  | 2.000E-05  | 0.000500 | 0.004 | 0.00397 | 0.00409 | 0.00403  | 0.00340 to 0.00460 | 99.2 | 70.0 to 130 | 2.98  | 20.0  |
| BD06829 | Molybdenum, Dissolved  | mg/L  | -0.000152  | 0.0100   | 0.2   | 0.194   | 0.196   | 0.195    | 0.170 to 0.230     | 97.0 | 70.0 to 130 | 1.03  | 20.0  |
| BD06828 | Molybdenum, Total      | mg/L  | -0.001     | 0.0100   | 0.2   | 0.202   | 0.201   | 0.201    | 0.170 to 0.230     | 101  | 70.0 to 130 | 0.496 | 20.0  |
| BD06829 | Potassium, Dissolved   | mg/L  | 0.00935    | 0.367    | 10.0  | 11.2    | 11.3    | 9.82     | 8.50 to 11.5       | 97.4 | 70.0 to 130 | 0.889 | 20.0  |
| BD06828 | Potassium, Total       | mg/L  | -0.00778   | 0.367    | 10.0  | 25.9    | 26.1    | 9.95     | 8.50 to 11.5       | 88.0 | 70.0 to 130 | 0.769 | 20.0  |
| BD06829 | Selenium, Dissolved    | mg/L  | 0.000102   | 0.00100  | 0.100 | 0.102   | 0.103   | 0.0997   | 0.0850 to 0.115    | 102  | 70.0 to 130 | 0.976 | 20.0  |
| BD06828 | Selenium, Total        | mg/L  | 0.0000454  | 0.00100  | 0.100 | 0.0951  | 0.0968  | 0.100    | 0.0850 to 0.115    | 95.1 | 70.0 to 130 | 1.77  | 20.0  |
| BD06829 | Silicon, Dissolved     | mg/L  | 0.000229   | 0.0440   | 1.00  | 8.70    | 8.71    | 0.997    | 0.850 to 1.15      | 96.0 | 70.0 to 130 | 0.115 | 20.0  |
| BD06828 | Silicon, Total         | mg/L  | -0.000048  | 0.0440   | 1.00  | 6.40    | 6.36    | 1.02     | 0.850 to 1.15      | 101  | 70.0 to 130 | 0.627 | 20.0  |
| BD06829 | Sodium, Dissolved      | mg/L  | 0.0149     | 0.0880   | 5.00  | 21.1    | 20.8    | 5.23     | 4.25 to 5.75       | 96.0 | 70.0 to 130 | 1.43  | 20.0  |
| BD06828 | Sodium, Total          | mg/L  | 0.000332   | 0.0880   | 5.00  | 761     | 761     | 4.87     | 4.25 to 5.75       | 120  | 70.0 to 130 | 0.00  | 20.0  |
| BD06781 | Sulfate                | mg/L  | 0.358      | 2.0      | 20.0  | 20.2    | 20.0    | 20.4     | 18.0 to 22.0       | 101  | 80.0 to 120 | 0.995 | 20.0  |
| BD06829 | Thallium, Dissolved    | mg/L  | -0.0000001 | 0.000147 | 0.100 | 0.0977  | 0.0992  | 0.0992   | 0.0850 to 0.115    | 97.7 | 70.0 to 130 | 1.52  | 20.0  |
| BD06828 | Thallium, Total        | mg/L  | 0.0000054  | 0.000147 | 0.100 | 0.0959  | 0.0990  | 0.0978   | 0.0850 to 0.115    | 95.5 | 70.0 to 130 | 3.18  | 20.0  |
| BD06828 | Total Organic Carbon   | mg/L  | 0.108      | 1.00     | 10.0  | 11.0    | 10.6    | 23.5     |                    | 94.6 | 80.0 to 120 | 3.70  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/4/23 13:45

**Customer ID:**

**Delivery Date:** 4/5/23 14:11

**Description:** Barry Ash Pond - MW-12

**Laboratory ID Number:** BD06778

| Sample  | Analysis                  | Units      | MB   | MB Limit | Spike | MS   | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit   | Prec  | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|----------|----------------|-----|-------------|-------|------------|
| BD06780 | Alkalinity to pH 4.5      | mg CaCO3/L |      |          |       |      | 147              | 50.5     | 45.0 to 55.0   |     |             | 0.678 | 10.0       |
| BD06781 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.05 | 0.200    | 2.00  | 2.05 | 0.032            | 2.07     | 1.80 to 2.20   | 102 | 90.0 to 110 | 0.00  | 15.0       |
| BD06780 | Solids, Dissolved         | mg/L       | 1.00 | 25.0     |       |      | 329              | 51.0     | 40.0 to 60.0   |     |             | 2.70  | 10.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-13

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 15:05  
**Customer ID:**  
**Submittal Date:** 4/5/23 14:11

**Laboratory ID Number:** BD06779

| Name                                | Prepared     | Analyzed      | Vio Spec            | DF    | Results      | Units                               | MDL      | RL         | Q |
|-------------------------------------|--------------|---------------|---------------------|-------|--------------|-------------------------------------|----------|------------|---|
| <b>Analytical Method: EPA 200.7</b> |              |               | <b>Analyst: ABB</b> |       |              | <b>Preparation Method: EPA 1638</b> |          |            |   |
| * Boron, Total                      | 4/7/23 14:10 | 4/11/23 11:23 |                     | 1.015 | 0.0391       | mg/L                                | 0.030000 | 0.1015     | J |
| * Calcium, Total                    | 4/7/23 14:10 | 4/11/23 13:29 |                     | 10.15 | 47.7         | mg/L                                | 0.70035  | 4.06       |   |
| * Iron, Total                       | 4/7/23 14:10 | 4/11/23 13:29 |                     | 10.15 | 4.94         | mg/L                                | 0.08120  | 0.406      |   |
| * Lithium, Total                    | 4/7/23 14:10 | 4/11/23 11:23 |                     | 1.015 | Not Detected | mg/L                                | 0.007105 | 0.01999956 | U |
| * Magnesium, Total                  | 4/7/23 14:10 | 4/11/23 11:23 |                     | 1.015 | 4.88         | mg/L                                | 0.021315 | 0.406      |   |
| * Molybdenum, Total                 | 4/7/23 14:10 | 4/11/23 11:23 |                     | 1.015 | 0.0108       | mg/L                                | 0.005075 | 0.01015    |   |
| * Silica, Total (calc.)             | 4/7/23 14:10 | 4/11/23 11:23 |                     | 1     | 13.7         | mg/L                                |          |            |   |
| * Silicon, Total                    | 4/7/23 14:10 | 4/11/23 11:23 |                     | 1.015 | 6.41         | mg/L                                | 0.02030  | 0.25375    |   |
| * Sodium, Total                     | 4/7/23 14:10 | 4/11/23 11:23 |                     | 1.015 | 19.3         | mg/L                                | 0.04060  | 0.406      |   |
| <b>Analytical Method: EPA 200.7</b> |              |               | <b>Analyst: ABB</b> |       |              |                                     |          |            |   |
| * Boron, Dissolved                  | 4/7/23 11:45 | 4/12/23 11:24 |                     | 1.015 | 0.0371       | mg/L                                | 0.030000 | 0.1015     | J |
| * Calcium, Dissolved                | 4/7/23 11:45 | 4/12/23 13:30 |                     | 10.15 | 46.5         | mg/L                                | 0.70035  | 4.06       |   |
| * Iron, Dissolved                   | 4/7/23 11:45 | 4/12/23 13:30 |                     | 10.15 | 5.18         | mg/L                                | 0.08120  | 0.406      |   |
| * Lithium, Dissolved                | 4/7/23 11:45 | 4/12/23 11:24 |                     | 1.015 | Not Detected | mg/L                                | 0.007105 | 0.01999956 | U |
| * Magnesium, Dissolved              | 4/7/23 11:45 | 4/12/23 11:24 |                     | 1.015 | 4.88         | mg/L                                | 0.021315 | 0.406      |   |
| * Molybdenum, Dissolved             | 4/7/23 11:45 | 4/12/23 11:24 |                     | 1.015 | 0.0119       | mg/L                                | 0.005075 | 0.01015    |   |
| * Silica, Dissolved (calc.)         | 4/7/23 11:45 | 4/12/23 11:24 |                     | 1     | 13.7         | mg/L                                |          |            |   |
| * Silicon, Dissolved                | 4/7/23 11:45 | 4/12/23 11:24 |                     | 1.015 | 6.41         | mg/L                                | 0.02030  | 0.25375    |   |
| * Sodium, Dissolved                 | 4/7/23 11:45 | 4/12/23 12:40 |                     | 1.015 | 20.4         | mg/L                                | 0.04060  | 0.406      |   |
| <b>Analytical Method: EPA 200.8</b> |              |               | <b>Analyst: DLJ</b> |       |              | <b>Preparation Method: EPA 1638</b> |          |            |   |
| * Antimony, Total                   | 4/7/23 14:10 | 4/7/23 16:47  |                     | 1.015 | Not Detected | mg/L                                | 0.000710 | 0.001015   | U |
| * Aluminum, Total                   | 4/7/23 14:10 | 4/7/23 16:47  |                     | 1.015 | 0.0554       | mg/L                                | 0.009135 | 0.05075    |   |
| * Arsenic, Total                    | 4/7/23 14:10 | 4/7/23 16:47  |                     | 1.015 | 0.00645      | mg/L                                | 0.000112 | 0.000203   |   |
| * Barium, Total                     | 4/7/23 14:10 | 4/7/23 16:47  |                     | 1.015 | 0.0526       | mg/L                                | 0.000508 | 0.001015   |   |
| * Beryllium, Total                  | 4/7/23 14:10 | 4/7/23 16:47  |                     | 1.015 | Not Detected | mg/L                                | 0.000406 | 0.001015   | U |
| * Cadmium, Total                    | 4/7/23 14:10 | 4/7/23 16:47  |                     | 1.015 | Not Detected | mg/L                                | 0.000068 | 0.000203   | U |
| * Chromium, Total                   | 4/7/23 14:10 | 4/7/23 16:47  |                     | 1.015 | 0.00286      | mg/L                                | 0.000203 | 0.001015   |   |
| * Cobalt, Total                     | 4/7/23 14:10 | 4/7/23 16:47  |                     | 1.015 | 0.000801     | mg/L                                | 0.000068 | 0.000203   |   |
| * Lead, Total                       | 4/7/23 14:10 | 4/7/23 16:47  |                     | 1.015 | 0.000101     | mg/L                                | 0.000068 | 0.000203   | J |
| * Manganese, Total                  | 4/7/23 14:10 | 4/7/23 16:47  |                     | 1.015 | 0.106        | mg/L                                | 0.000152 | 0.001015   |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-13

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 15:05  
**Customer ID:**  
**Submittal Date:** 4/5/23 14:11

**Laboratory ID Number:** BD06779

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/7/23 14:10  | 4/7/23 16:47        |          | 1.015 | 2.83         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/7/23 14:10  | 4/7/23 16:47        |          | 1.015 | 0.000664     | mg/L       | 0.000508 | 0.001015 | J |
| * Thallium, Total                      | 4/7/23 14:10  | 4/7/23 16:47        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:42        |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:42        |          | 1.015 | Not Detected | mg/L       | 0.009135 | 0.05075  | U |
| * Arsenic, Dissolved                   | 4/7/23 11:45  | 4/7/23 13:42        |          | 1.015 | 0.00660      | mg/L       | 0.000112 | 0.000203 |   |
| * Barium, Dissolved                    | 4/7/23 11:45  | 4/7/23 13:42        |          | 1.015 | 0.0528       | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/7/23 11:45  | 4/7/23 13:42        |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/7/23 11:45  | 4/7/23 13:42        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:42        |          | 1.015 | 0.00269      | mg/L       | 0.000203 | 0.001015 |   |
| * Cobalt, Dissolved                    | 4/7/23 11:45  | 4/7/23 13:42        |          | 1.015 | 0.000827     | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/7/23 11:45  | 4/7/23 13:42        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/7/23 11:45  | 4/7/23 13:42        |          | 1.015 | 0.114        | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/7/23 11:45  | 4/7/23 13:42        |          | 1.015 | 2.70         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:42        |          | 1.015 | 0.000520     | mg/L       | 0.000508 | 0.001015 | J |
| * Thallium, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:42        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/11/23 18:35 | 4/12/23 00:47       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/6/23 09:50  | 4/6/23 09:50        |          | 1     | Not Detected | mg/L as N  | 0.20     | 0.3      | U |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/17/23 10:54 | 4/17/23 14:05       |          | 1     | 140          | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/7/23 10:42  | 4/10/23 13:50       |          | 1     | 220          | mg/L       |          | 25       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/17/23 10:54 | 4/17/23 14:05       |          | 1     | 140          | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 4/17/23 10:54 | 4/17/23 14:05       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/12/23 11:32 | 4/12/23 11:32       |          | 1     | 10.9         | mg/L       | 1.00     | 2        |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-13

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 15:05  
**Customer ID:**  
**Submittal Date:** 4/5/23 14:11

**Laboratory ID Number:** BD06779

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Chloride                                   | 4/12/23 11:58 | 4/12/23 11:58       |          | 1  | 14.3    | mg/L  | 0.50 | 0.5   |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Fluoride                                   | 4/13/23 11:16 | 4/13/23 11:16       |          | 1  | 0.187   | mg/L  | 0.06 | 0.125 |    |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |         |       |      |       |    |
| * Sulfate                                    | 4/6/23 11:11  | 4/6/23 11:11        |          | 1  | 24.6    | mg/L  | 0.6  | 2     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: TJD</b> |          |    |         |       |      |       |    |
| Conductivity                                 | 4/4/23 15:02  | 4/4/23 15:02        |          |    | 352.44  | uS/cm |      |       | FA |
| pH   | 4/4/23 15:02  | 4/4/23 15:02        |          |    | 6.06    | SU    |      |       | FA |
| Temperature                                  | 4/4/23 15:02  | 4/4/23 15:02        |          |    | 20.83   | C     |      |       | FA |
| Turbidity                                    | 4/4/23 15:02  | 4/4/23 15:02        |          |    | 4.16    | NTU   |      |       | FA |
| Sulfide                                      | 4/4/23 15:02  | 4/4/23 15:02        |          |    | 0       | mg/L  |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/4/23 15:05  
**Customer ID:**  
**Delivery Date:** 4/5/23 14:11

**Description:** Barry Ash Pond - MW-13

**Laboratory ID Number:** BD06779

| Sample  | Analysis             | Units | MB         | MB       |       | Spike  | MS     | MSD    | Standard        |       | Rec         |       | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|--------|-----------------|-------|-------------|-------|------|-------|
|         |                      |       |            | Limit    |       |        |        |        | Standard        | Limit | Rec         | Limit |      |       |
| BD06829 | Aluminum, Dissolved  | mg/L  | 0.0000353  | 0.0198   | 0.100 | 0.101  | 0.102  | 0.0999 | 0.0850 to 0.115 | 101   | 70.0 to 130 | 0.985 | 20.0 |       |
| BD06828 | Aluminum, Total      | mg/L  | 0.000609   | 0.0198   | 0.100 | 0.139  | 0.139  | 0.103  | 0.0850 to 0.115 | 99.8  | 70.0 to 130 | 0.00  | 20.0 |       |
| BD06829 | Antimony, Dissolved  | mg/L  | 0.000377   | 0.00100  | 0.100 | 0.0881 | 0.0905 | 0.0898 | 0.0850 to 0.115 | 88.1  | 70.0 to 130 | 2.69  | 20.0 |       |
| BD06828 | Antimony, Total      | mg/L  | 0.000237   | 0.00100  | 0.100 | 0.0875 | 0.0922 | 0.0867 | 0.0850 to 0.115 | 87.5  | 70.0 to 130 | 5.23  | 20.0 |       |
| BD06829 | Arsenic, Dissolved   | mg/L  | 0.0000113  | 0.000200 | 0.100 | 0.121  | 0.124  | 0.0990 | 0.0850 to 0.115 | 98.1  | 70.0 to 130 | 2.45  | 20.0 |       |
| BD06828 | Arsenic, Total       | mg/L  | 0.0000156  | 0.000200 | 0.100 | 0.0969 | 0.0996 | 0.0998 | 0.0850 to 0.115 | 95.8  | 70.0 to 130 | 2.75  | 20.0 |       |
| BD06829 | Barium, Dissolved    | mg/L  | 0.0000105  | 0.00100  | 0.100 | 0.210  | 0.210  | 0.0944 | 0.0850 to 0.115 | 93.0  | 70.0 to 130 | 0.00  | 20.0 |       |
| BD06828 | Barium, Total        | mg/L  | -0.0000063 | 0.00100  | 0.100 | 1.14   | 1.19   | 0.0923 | 0.0850 to 0.115 | 30.0  | 70.0 to 130 | 4.29  | 20.0 |       |
| BD06829 | Beryllium, Dissolved | mg/L  | 0.0000117  | 0.000880 | 0.100 | 0.0899 | 0.0944 | 0.0908 | 0.0850 to 0.115 | 89.9  | 70.0 to 130 | 4.88  | 20.0 |       |
| BD06828 | Beryllium, Total     | mg/L  | 0.0000000  | 0.000880 | 0.100 | 0.0921 | 0.0959 | 0.0944 | 0.0850 to 0.115 | 92.1  | 70.0 to 130 | 4.04  | 20.0 |       |
| BD06829 | Boron, Dissolved     | mg/L  | -0.000075  | 0.0650   | 1.00  | 1.01   | 1.06   | 1.00   | 0.850 to 1.15   | 96.4  | 70.0 to 130 | 4.83  | 20.0 |       |
| BD06828 | Boron, Total         | mg/L  | -0.000537  | 0.0650   | 1.00  | 1.35   | 1.34   | 1.02   | 0.850 to 1.15   | 106   | 70.0 to 130 | 0.743 | 20.0 |       |
| BD06829 | Cadmium, Dissolved   | mg/L  | 0.0000046  | 0.000147 | 0.100 | 0.0963 | 0.0981 | 0.0982 | 0.0850 to 0.115 | 96.3  | 70.0 to 130 | 1.85  | 20.0 |       |
| BD06828 | Cadmium, Total       | mg/L  | 0.0000043  | 0.000147 | 0.100 | 0.0895 | 0.0918 | 0.0962 | 0.0850 to 0.115 | 89.4  | 70.0 to 130 | 2.54  | 20.0 |       |
| BD06829 | Calcium, Dissolved   | mg/L  | -0.00493   | 0.152    | 5.00  | 14.7   | 14.6   | 4.94   | 4.25 to 5.75    | 92.0  | 70.0 to 130 | 0.683 | 20.0 |       |
| BD06828 | Calcium, Total       | mg/L  | -0.0178    | 0.152    | 5.00  | 85.0   | 86.4   | 5.00   | 4.25 to 5.75    | 36.0  | 70.0 to 130 | 1.63  | 20.0 |       |
| BD06827 | Chloride             | mg/L  | 0.0514     | 1.00     | 800   | 1580   | 1590   | 10.2   | 9.00 to 11.0    | 105   | 80.0 to 120 | 0.631 | 20.0 |       |
| BD06829 | Chromium, Dissolved  | mg/L  | -0.0000370 | 0.000440 | 0.100 | 0.0967 | 0.0995 | 0.0995 | 0.0850 to 0.115 | 96.7  | 70.0 to 130 | 2.85  | 20.0 |       |
| BD06828 | Chromium, Total      | mg/L  | -0.0000476 | 0.000440 | 0.100 | 0.0926 | 0.0929 | 0.0965 | 0.0850 to 0.115 | 92.4  | 70.0 to 130 | 0.323 | 20.0 |       |
| BD06829 | Cobalt, Dissolved    | mg/L  | -0.0000017 | 0.000147 | 0.100 | 0.101  | 0.104  | 0.101  | 0.0850 to 0.115 | 100   | 70.0 to 130 | 2.93  | 20.0 |       |
| BD06828 | Cobalt, Total        | mg/L  | 0.0000042  | 0.000147 | 0.100 | 0.219  | 0.220  | 0.0997 | 0.0850 to 0.115 | 89.0  | 70.0 to 130 | 0.456 | 20.0 |       |
| BD06828 | Fluoride             | mg/L  | -0.00644   | 0.125    | 2.50  | 2.78   | 2.79   | 2.62   | 2.25 to 2.75    | 107   | 80.0 to 120 | 0.359 | 20.0 |       |
| BD06829 | Iron, Dissolved      | mg/L  | -0.00183   | 0.0176   | 0.2   | 60.3   | 60.4   | 0.195  | 0.170 to 0.230  | -50.0 | 70.0 to 130 | 0.166 | 20.0 |       |
| BD06828 | Iron, Total          | mg/L  | 0.000416   | 0.0176   | 0.2   | 0.648  | 0.649  | 0.200  | 0.170 to 0.230  | 98.0  | 70.0 to 130 | 0.154 | 20.0 |       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/4/23 15:05

**Customer ID:**

**Delivery Date:** 4/5/23 14:11

**Description:** Barry Ash Pond - MW-13

**Laboratory ID Number:** BD06779

| Sample  | Analysis               | Units | MB         |          | Spike | MS      | MSD     | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB         | Limit    |       |         |         | Standard | Limit              | Rec  | Limit       |       |       |
| BD06829 | Lead, Dissolved        | mg/L  | 0.0000118  | 0.000147 | 0.100 | 0.0948  | 0.0971  | 0.0971   | 0.0850 to 0.115    | 94.8 | 70.0 to 130 | 2.40  | 20.0  |
| BD06828 | Lead, Total            | mg/L  | 0.0000027  | 0.000147 | 0.100 | 0.0928  | 0.0958  | 0.0945   | 0.0850 to 0.115    | 92.8 | 70.0 to 130 | 3.18  | 20.0  |
| BD06829 | Lithium, Dissolved     | mg/L  | 0.000245   | 0.0154   | 0.200 | 0.199   | 0.200   | 0.195    | 0.170 to 0.230     | 99.5 | 70.0 to 130 | 0.501 | 20.0  |
| BD06828 | Lithium, Total         | mg/L  | -0.000701  | 0.0154   | 0.200 | 0.220   | 0.221   | 0.199    | 0.170 to 0.230     | 110  | 70.0 to 130 | 0.454 | 20.0  |
| BD06829 | Magnesium, Dissolved   | mg/L  | 0.000      | 0.0462   | 5.00  | 9.49    | 9.46    | 4.93     | 4.25 to 5.75       | 93.2 | 70.0 to 130 | 0.317 | 20.0  |
| BD06828 | Magnesium, Total       | mg/L  | -0.00548   | 0.0462   | 5.00  | 77.6    | 75.3    | 4.93     | 4.25 to 5.75       | 102  | 70.0 to 130 | 3.01  | 20.0  |
| BD06829 | Manganese, Dissolved   | mg/L  | 0.0000167  | 0.00033  | 0.100 | 0.378   | 0.382   | 0.101    | 0.0850 to 0.115    | 98.0 | 70.0 to 130 | 1.05  | 20.0  |
| BD06828 | Manganese, Total       | mg/L  | 0.000200   | 0.00033  | 0.100 | 4.77    | 4.92    | 0.0980   | 0.0850 to 0.115    | 70.0 | 70.0 to 130 | 3.10  | 20.0  |
| BD06828 | Mercury, Total by CVAA | mg/L  | 2.000E-05  | 0.000500 | 0.004 | 0.00397 | 0.00409 | 0.00403  | 0.00340 to 0.00460 | 99.2 | 70.0 to 130 | 2.98  | 20.0  |
| BD06829 | Molybdenum, Dissolved  | mg/L  | -0.000152  | 0.0100   | 0.2   | 0.194   | 0.196   | 0.195    | 0.170 to 0.230     | 97.0 | 70.0 to 130 | 1.03  | 20.0  |
| BD06828 | Molybdenum, Total      | mg/L  | -0.001     | 0.0100   | 0.2   | 0.202   | 0.201   | 0.201    | 0.170 to 0.230     | 101  | 70.0 to 130 | 0.496 | 20.0  |
| BD06829 | Potassium, Dissolved   | mg/L  | 0.00935    | 0.367    | 10.0  | 11.2    | 11.3    | 9.82     | 8.50 to 11.5       | 97.4 | 70.0 to 130 | 0.889 | 20.0  |
| BD06828 | Potassium, Total       | mg/L  | -0.00778   | 0.367    | 10.0  | 25.9    | 26.1    | 9.95     | 8.50 to 11.5       | 88.0 | 70.0 to 130 | 0.769 | 20.0  |
| BD06829 | Selenium, Dissolved    | mg/L  | 0.000102   | 0.00100  | 0.100 | 0.102   | 0.103   | 0.0997   | 0.0850 to 0.115    | 102  | 70.0 to 130 | 0.976 | 20.0  |
| BD06828 | Selenium, Total        | mg/L  | 0.0000454  | 0.00100  | 0.100 | 0.0951  | 0.0968  | 0.100    | 0.0850 to 0.115    | 95.1 | 70.0 to 130 | 1.77  | 20.0  |
| BD06829 | Silicon, Dissolved     | mg/L  | 0.000229   | 0.0440   | 1.00  | 8.70    | 8.71    | 0.997    | 0.850 to 1.15      | 96.0 | 70.0 to 130 | 0.115 | 20.0  |
| BD06828 | Silicon, Total         | mg/L  | -0.000048  | 0.0440   | 1.00  | 6.40    | 6.36    | 1.02     | 0.850 to 1.15      | 101  | 70.0 to 130 | 0.627 | 20.0  |
| BD06829 | Sodium, Dissolved      | mg/L  | 0.0149     | 0.0880   | 5.00  | 21.1    | 20.8    | 5.23     | 4.25 to 5.75       | 96.0 | 70.0 to 130 | 1.43  | 20.0  |
| BD06828 | Sodium, Total          | mg/L  | 0.000332   | 0.0880   | 5.00  | 761     | 761     | 4.87     | 4.25 to 5.75       | 120  | 70.0 to 130 | 0.00  | 20.0  |
| BD06781 | Sulfate                | mg/L  | 0.358      | 2.0      | 20.0  | 20.2    | 20.0    | 20.4     | 18.0 to 22.0       | 101  | 80.0 to 120 | 0.995 | 20.0  |
| BD06829 | Thallium, Dissolved    | mg/L  | -0.0000001 | 0.000147 | 0.100 | 0.0977  | 0.0992  | 0.0992   | 0.0850 to 0.115    | 97.7 | 70.0 to 130 | 1.52  | 20.0  |
| BD06828 | Thallium, Total        | mg/L  | 0.0000054  | 0.000147 | 0.100 | 0.0959  | 0.0990  | 0.0978   | 0.0850 to 0.115    | 95.5 | 70.0 to 130 | 3.18  | 20.0  |
| BD06828 | Total Organic Carbon   | mg/L  | 0.108      | 1.00     | 10.0  | 11.0    | 10.6    | 23.5     |                    | 94.6 | 80.0 to 120 | 3.70  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/4/23 15:05

**Customer ID:**

**Delivery Date:** 4/5/23 14:11

**Description:** Barry Ash Pond - MW-13

**Laboratory ID Number:** BD06779

| Sample  | Analysis                  | Units      | MB   | MB Limit | Spike | MS   | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit   | Prec  | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|----------|----------------|-----|-------------|-------|------------|
| BD06780 | Alkalinity to pH 4.5      | mg CaCO3/L |      |          |       |      | 147              | 50.5     | 45.0 to 55.0   |     |             | 0.678 | 10.0       |
| BD06781 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.05 | 0.200    | 2.00  | 2.05 | 0.032            | 2.07     | 1.80 to 2.20   | 102 | 90.0 to 110 | 0.00  | 15.0       |
| BD06780 | Solids, Dissolved         | mg/L       | 1.00 | 25.0     |       |      | 329              | 51.0     | 40.0 to 60.0   |     |             | 2.70  | 10.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-13V

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 15:50  
**Customer ID:**  
**Submittal Date:** 4/5/23 14:11

**Laboratory ID Number:** BD06780

| Name                                | Prepared     | Analyzed      | Vio Spec            | DF    | Results                             | Units | MDL      | RL         | Q |
|-------------------------------------|--------------|---------------|---------------------|-------|-------------------------------------|-------|----------|------------|---|
| <b>Analytical Method: EPA 200.7</b> |              |               | <b>Analyst: ABB</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Boron, Total                      | 4/7/23 14:10 | 4/11/23 11:26 |                     | 1.015 | 0.0745                              | mg/L  | 0.030000 | 0.1015     | J |
| * Calcium, Total                    | 4/7/23 14:10 | 4/11/23 11:26 |                     | 1.015 | 14.4                                | mg/L  | 0.070035 | 0.406      |   |
| * Iron, Total                       | 4/7/23 14:10 | 4/11/23 13:32 |                     | 101.5 | 54.7                                | mg/L  | 0.8120   | 4.06       |   |
| * Lithium, Total                    | 4/7/23 14:10 | 4/11/23 11:26 |                     | 1.015 | 0.0351                              | mg/L  | 0.007105 | 0.01999956 |   |
| * Magnesium, Total                  | 4/7/23 14:10 | 4/11/23 11:26 |                     | 1.015 | 6.35                                | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Total                 | 4/7/23 14:10 | 4/11/23 11:26 |                     | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Total (calc.)             | 4/7/23 14:10 | 4/11/23 11:26 |                     | 1     | 14.7                                | mg/L  |          |            |   |
| * Silicon, Total                    | 4/7/23 14:10 | 4/11/23 11:26 |                     | 1.015 | 6.85                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Total                     | 4/7/23 14:10 | 4/11/23 13:32 |                     | 101.5 | 62.7                                | mg/L  | 4.060    | 40.6       |   |
| <b>Analytical Method: EPA 200.7</b> |              |               | <b>Analyst: ABB</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Boron, Dissolved                  | 4/7/23 11:45 | 4/12/23 11:27 |                     | 1.015 | 0.0851                              | mg/L  | 0.030000 | 0.1015     | J |
| * Calcium, Dissolved                | 4/7/23 11:45 | 4/12/23 11:27 |                     | 1.015 | 14.2                                | mg/L  | 0.070035 | 0.406      |   |
| * Iron, Dissolved                   | 4/7/23 11:45 | 4/12/23 13:33 |                     | 101.5 | 53.1                                | mg/L  | 0.8120   | 4.06       |   |
| * Lithium, Dissolved                | 4/7/23 11:45 | 4/12/23 11:27 |                     | 1.015 | 0.0341                              | mg/L  | 0.007105 | 0.01999956 |   |
| * Magnesium, Dissolved              | 4/7/23 11:45 | 4/12/23 11:27 |                     | 1.015 | 6.29                                | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Dissolved             | 4/7/23 11:45 | 4/12/23 11:27 |                     | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Dissolved (calc.)         | 4/7/23 11:45 | 4/12/23 11:27 |                     | 1     | 14.5                                | mg/L  |          |            |   |
| * Silicon, Dissolved                | 4/7/23 11:45 | 4/12/23 11:27 |                     | 1.015 | 6.78                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Dissolved                 | 4/7/23 11:45 | 4/12/23 13:33 |                     | 101.5 | 61.8                                | mg/L  | 4.060    | 40.6       |   |
| <b>Analytical Method: EPA 200.8</b> |              |               | <b>Analyst: DLJ</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Antimony, Total                   | 4/7/23 14:10 | 4/7/23 16:51  |                     | 1.015 | Not Detected                        | mg/L  | 0.000710 | 0.001015   | U |
| * Aluminum, Total                   | 4/7/23 14:10 | 4/7/23 16:51  |                     | 1.015 | 0.0120                              | mg/L  | 0.009135 | 0.05075    | J |
| * Arsenic, Total                    | 4/7/23 14:10 | 4/7/23 16:51  |                     | 1.015 | 0.00843                             | mg/L  | 0.000112 | 0.000203   |   |
| * Barium, Total                     | 4/7/23 14:10 | 4/7/23 16:51  |                     | 1.015 | 0.106                               | mg/L  | 0.000508 | 0.001015   |   |
| * Beryllium, Total                  | 4/7/23 14:10 | 4/7/23 16:51  |                     | 1.015 | Not Detected                        | mg/L  | 0.000406 | 0.001015   | U |
| * Cadmium, Total                    | 4/7/23 14:10 | 4/7/23 16:51  |                     | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |
| * Chromium, Total                   | 4/7/23 14:10 | 4/7/23 16:51  |                     | 1.015 | 0.00417                             | mg/L  | 0.000203 | 0.001015   |   |
| * Cobalt, Total                     | 4/7/23 14:10 | 4/7/23 16:51  |                     | 1.015 | 0.00106                             | mg/L  | 0.000068 | 0.000203   |   |
| * Lead, Total                       | 4/7/23 14:10 | 4/7/23 16:51  |                     | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |
| * Manganese, Total                  | 4/7/23 14:10 | 4/7/23 16:51  |                     | 1.015 | 0.766                               | mg/L  | 0.000152 | 0.001015   |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-13V

**Location Code:** WMWBARAP

**Collected:** 4/4/23 15:50

**Customer ID:**

**Submittal Date:** 4/5/23 14:11

**Laboratory ID Number:** BD06780

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/7/23 14:10  | 4/7/23 16:51        |          | 1.015 | 7.22         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/7/23 14:10  | 4/7/23 16:51        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/7/23 14:10  | 4/7/23 16:51        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:45        |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:45        |          | 1.015 | Not Detected | mg/L       | 0.009135 | 0.05075  | U |
| * Arsenic, Dissolved                   | 4/7/23 11:45  | 4/7/23 13:45        |          | 1.015 | 0.00817      | mg/L       | 0.000112 | 0.000203 |   |
| * Barium, Dissolved                    | 4/7/23 11:45  | 4/7/23 13:45        |          | 1.015 | 0.106        | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/7/23 11:45  | 4/7/23 13:45        |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/7/23 11:45  | 4/7/23 13:45        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:45        |          | 1.015 | 0.00410      | mg/L       | 0.000203 | 0.001015 |   |
| * Cobalt, Dissolved                    | 4/7/23 11:45  | 4/7/23 13:45        |          | 1.015 | 0.00104      | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/7/23 11:45  | 4/7/23 13:45        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/7/23 11:45  | 4/7/23 13:45        |          | 1.015 | 0.789        | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/7/23 11:45  | 4/7/23 13:45        |          | 1.015 | 7.22         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:45        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:45        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/11/23 18:35 | 4/12/23 00:50       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/6/23 09:51  | 4/6/23 09:51        |          | 1     | Not Detected | mg/L as N  | 0.20     | 0.3      | U |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/17/23 10:54 | 4/17/23 14:05       |          | 1     | 148          | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/7/23 10:42  | 4/10/23 13:50       |          | 1     | 338          | mg/L       |          | 25       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/17/23 10:54 | 4/17/23 14:05       |          | 1     | 148          | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 4/17/23 10:54 | 4/17/23 14:05       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/12/23 11:47 | 4/12/23 11:47       |          | 1     | 17.3         | mg/L       | 1.00     | 2        |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-13V

**Location Code:** WMWBARAP

**Collected:** 4/4/23 15:50

**Customer ID:**

**Submittal Date:** 4/5/23 14:11

**Laboratory ID Number:** BD06780

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Chloride                                   | 4/12/23 12:17 | 4/12/23 12:17       |          | 5  | 52.1    | mg/L  | 2.50 | 2.5   |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Fluoride                                   | 4/13/23 11:17 | 4/13/23 11:17       |          | 1  | 0.0687  | mg/L  | 0.06 | 0.125 | J  |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |         |       |      |       |    |
| * Sulfate                                    | 4/6/23 11:12  | 4/6/23 11:12        |          | 1  | 29.5    | mg/L  | 0.6  | 2     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: TJD</b> |          |    |         |       |      |       |    |
| Conductivity                                 | 4/4/23 15:47  | 4/4/23 15:47        |          |    | 565.28  | uS/cm |      |       | FA |
| pH   | 4/4/23 15:47  | 4/4/23 15:47        |          |    | 6.24    | SU    |      |       | FA |
| Temperature                                  | 4/4/23 15:47  | 4/4/23 15:47        |          |    | 21.02   | C     |      |       | FA |
| Turbidity                                    | 4/4/23 15:47  | 4/4/23 15:47        |          |    | 3.69    | NTU   |      |       | FA |
| Sulfide                                      | 4/4/23 15:47  | 4/4/23 15:47        |          |    | 0       | mg/L  |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/4/23 15:50  
**Customer ID:**  
**Delivery Date:** 4/5/23 14:11

**Description:** Barry Ash Pond - MW-13V

**Laboratory ID Number:** BD06780

| Sample  | Analysis             | Units | MB         | MB       |       | Spike  | MS     | MSD    | Standard        |       | Rec         |       | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|--------|-----------------|-------|-------------|-------|------|-------|
|         |                      |       |            | Limit    |       |        |        |        | Standard        | Limit | Rec         | Limit |      |       |
| BD06829 | Aluminum, Dissolved  | mg/L  | 0.0000353  | 0.0198   | 0.100 | 0.101  | 0.102  | 0.0999 | 0.0850 to 0.115 | 101   | 70.0 to 130 | 0.985 | 20.0 |       |
| BD06828 | Aluminum, Total      | mg/L  | 0.000609   | 0.0198   | 0.100 | 0.139  | 0.139  | 0.103  | 0.0850 to 0.115 | 99.8  | 70.0 to 130 | 0.00  | 20.0 |       |
| BD06829 | Antimony, Dissolved  | mg/L  | 0.000377   | 0.00100  | 0.100 | 0.0881 | 0.0905 | 0.0898 | 0.0850 to 0.115 | 88.1  | 70.0 to 130 | 2.69  | 20.0 |       |
| BD06828 | Antimony, Total      | mg/L  | 0.000237   | 0.00100  | 0.100 | 0.0875 | 0.0922 | 0.0867 | 0.0850 to 0.115 | 87.5  | 70.0 to 130 | 5.23  | 20.0 |       |
| BD06829 | Arsenic, Dissolved   | mg/L  | 0.0000113  | 0.000200 | 0.100 | 0.121  | 0.124  | 0.0990 | 0.0850 to 0.115 | 98.1  | 70.0 to 130 | 2.45  | 20.0 |       |
| BD06828 | Arsenic, Total       | mg/L  | 0.0000156  | 0.000200 | 0.100 | 0.0969 | 0.0996 | 0.0998 | 0.0850 to 0.115 | 95.8  | 70.0 to 130 | 2.75  | 20.0 |       |
| BD06829 | Barium, Dissolved    | mg/L  | 0.0000105  | 0.00100  | 0.100 | 0.210  | 0.210  | 0.0944 | 0.0850 to 0.115 | 93.0  | 70.0 to 130 | 0.00  | 20.0 |       |
| BD06828 | Barium, Total        | mg/L  | -0.0000063 | 0.00100  | 0.100 | 1.14   | 1.19   | 0.0923 | 0.0850 to 0.115 | 30.0  | 70.0 to 130 | 4.29  | 20.0 |       |
| BD06829 | Beryllium, Dissolved | mg/L  | 0.0000117  | 0.000880 | 0.100 | 0.0899 | 0.0944 | 0.0908 | 0.0850 to 0.115 | 89.9  | 70.0 to 130 | 4.88  | 20.0 |       |
| BD06828 | Beryllium, Total     | mg/L  | 0.0000000  | 0.000880 | 0.100 | 0.0921 | 0.0959 | 0.0944 | 0.0850 to 0.115 | 92.1  | 70.0 to 130 | 4.04  | 20.0 |       |
| BD06829 | Boron, Dissolved     | mg/L  | -0.000075  | 0.0650   | 1.00  | 1.01   | 1.06   | 1.00   | 0.850 to 1.15   | 96.4  | 70.0 to 130 | 4.83  | 20.0 |       |
| BD06828 | Boron, Total         | mg/L  | -0.000537  | 0.0650   | 1.00  | 1.35   | 1.34   | 1.02   | 0.850 to 1.15   | 106   | 70.0 to 130 | 0.743 | 20.0 |       |
| BD06829 | Cadmium, Dissolved   | mg/L  | 0.0000046  | 0.000147 | 0.100 | 0.0963 | 0.0981 | 0.0982 | 0.0850 to 0.115 | 96.3  | 70.0 to 130 | 1.85  | 20.0 |       |
| BD06828 | Cadmium, Total       | mg/L  | 0.0000043  | 0.000147 | 0.100 | 0.0895 | 0.0918 | 0.0962 | 0.0850 to 0.115 | 89.4  | 70.0 to 130 | 2.54  | 20.0 |       |
| BD06829 | Calcium, Dissolved   | mg/L  | -0.00493   | 0.152    | 5.00  | 14.7   | 14.6   | 4.94   | 4.25 to 5.75    | 92.0  | 70.0 to 130 | 0.683 | 20.0 |       |
| BD06828 | Calcium, Total       | mg/L  | -0.0178    | 0.152    | 5.00  | 85.0   | 86.4   | 5.00   | 4.25 to 5.75    | 36.0  | 70.0 to 130 | 1.63  | 20.0 |       |
| BD06827 | Chloride             | mg/L  | 0.0514     | 1.00     | 800   | 1580   | 1590   | 10.2   | 9.00 to 11.0    | 105   | 80.0 to 120 | 0.631 | 20.0 |       |
| BD06829 | Chromium, Dissolved  | mg/L  | -0.0000370 | 0.000440 | 0.100 | 0.0967 | 0.0995 | 0.0995 | 0.0850 to 0.115 | 96.7  | 70.0 to 130 | 2.85  | 20.0 |       |
| BD06828 | Chromium, Total      | mg/L  | -0.0000476 | 0.000440 | 0.100 | 0.0926 | 0.0929 | 0.0965 | 0.0850 to 0.115 | 92.4  | 70.0 to 130 | 0.323 | 20.0 |       |
| BD06829 | Cobalt, Dissolved    | mg/L  | -0.0000017 | 0.000147 | 0.100 | 0.101  | 0.104  | 0.101  | 0.0850 to 0.115 | 100   | 70.0 to 130 | 2.93  | 20.0 |       |
| BD06828 | Cobalt, Total        | mg/L  | 0.0000042  | 0.000147 | 0.100 | 0.219  | 0.220  | 0.0997 | 0.0850 to 0.115 | 89.0  | 70.0 to 130 | 0.456 | 20.0 |       |
| BD06828 | Fluoride             | mg/L  | -0.00644   | 0.125    | 2.50  | 2.78   | 2.79   | 2.62   | 2.25 to 2.75    | 107   | 80.0 to 120 | 0.359 | 20.0 |       |
| BD06829 | Iron, Dissolved      | mg/L  | -0.00183   | 0.0176   | 0.2   | 60.3   | 60.4   | 0.195  | 0.170 to 0.230  | -50.0 | 70.0 to 130 | 0.166 | 20.0 |       |
| BD06828 | Iron, Total          | mg/L  | 0.000416   | 0.0176   | 0.2   | 0.648  | 0.649  | 0.200  | 0.170 to 0.230  | 98.0  | 70.0 to 130 | 0.154 | 20.0 |       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/4/23 15:50  
**Customer ID:**  
**Delivery Date:** 4/5/23 14:11

**Description:** Barry Ash Pond - MW-13V

**Laboratory ID Number:** BD06780

| Sample  | Analysis               | Units | MB         | MB       |       |         |         | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       |            | Limit    | Spike | MS      | MSD     | Standard | Limit              | Rec  | Limit       |       |       |
| BD06829 | Lead, Dissolved        | mg/L  | 0.0000118  | 0.000147 | 0.100 | 0.0948  | 0.0971  | 0.0971   | 0.0850 to 0.115    | 94.8 | 70.0 to 130 | 2.40  | 20.0  |
| BD06828 | Lead, Total            | mg/L  | 0.0000027  | 0.000147 | 0.100 | 0.0928  | 0.0958  | 0.0945   | 0.0850 to 0.115    | 92.8 | 70.0 to 130 | 3.18  | 20.0  |
| BD06829 | Lithium, Dissolved     | mg/L  | 0.000245   | 0.0154   | 0.200 | 0.199   | 0.200   | 0.195    | 0.170 to 0.230     | 99.5 | 70.0 to 130 | 0.501 | 20.0  |
| BD06828 | Lithium, Total         | mg/L  | -0.000701  | 0.0154   | 0.200 | 0.220   | 0.221   | 0.199    | 0.170 to 0.230     | 110  | 70.0 to 130 | 0.454 | 20.0  |
| BD06829 | Magnesium, Dissolved   | mg/L  | 0.000      | 0.0462   | 5.00  | 9.49    | 9.46    | 4.93     | 4.25 to 5.75       | 93.2 | 70.0 to 130 | 0.317 | 20.0  |
| BD06828 | Magnesium, Total       | mg/L  | -0.00548   | 0.0462   | 5.00  | 77.6    | 75.3    | 4.93     | 4.25 to 5.75       | 102  | 70.0 to 130 | 3.01  | 20.0  |
| BD06829 | Manganese, Dissolved   | mg/L  | 0.0000167  | 0.00033  | 0.100 | 0.378   | 0.382   | 0.101    | 0.0850 to 0.115    | 98.0 | 70.0 to 130 | 1.05  | 20.0  |
| BD06828 | Manganese, Total       | mg/L  | 0.000200   | 0.00033  | 0.100 | 4.77    | 4.92    | 0.0980   | 0.0850 to 0.115    | 70.0 | 70.0 to 130 | 3.10  | 20.0  |
| BD06828 | Mercury, Total by CVAA | mg/L  | 2.000E-05  | 0.000500 | 0.004 | 0.00397 | 0.00409 | 0.00403  | 0.00340 to 0.00460 | 99.2 | 70.0 to 130 | 2.98  | 20.0  |
| BD06829 | Molybdenum, Dissolved  | mg/L  | -0.000152  | 0.0100   | 0.2   | 0.194   | 0.196   | 0.195    | 0.170 to 0.230     | 97.0 | 70.0 to 130 | 1.03  | 20.0  |
| BD06828 | Molybdenum, Total      | mg/L  | -0.001     | 0.0100   | 0.2   | 0.202   | 0.201   | 0.201    | 0.170 to 0.230     | 101  | 70.0 to 130 | 0.496 | 20.0  |
| BD06829 | Potassium, Dissolved   | mg/L  | 0.00935    | 0.367    | 10.0  | 11.2    | 11.3    | 9.82     | 8.50 to 11.5       | 97.4 | 70.0 to 130 | 0.889 | 20.0  |
| BD06828 | Potassium, Total       | mg/L  | -0.00778   | 0.367    | 10.0  | 25.9    | 26.1    | 9.95     | 8.50 to 11.5       | 88.0 | 70.0 to 130 | 0.769 | 20.0  |
| BD06829 | Selenium, Dissolved    | mg/L  | 0.000102   | 0.00100  | 0.100 | 0.102   | 0.103   | 0.0997   | 0.0850 to 0.115    | 102  | 70.0 to 130 | 0.976 | 20.0  |
| BD06828 | Selenium, Total        | mg/L  | 0.0000454  | 0.00100  | 0.100 | 0.0951  | 0.0968  | 0.100    | 0.0850 to 0.115    | 95.1 | 70.0 to 130 | 1.77  | 20.0  |
| BD06829 | Silicon, Dissolved     | mg/L  | 0.000229   | 0.0440   | 1.00  | 8.70    | 8.71    | 0.997    | 0.850 to 1.15      | 96.0 | 70.0 to 130 | 0.115 | 20.0  |
| BD06828 | Silicon, Total         | mg/L  | -0.000048  | 0.0440   | 1.00  | 6.40    | 6.36    | 1.02     | 0.850 to 1.15      | 101  | 70.0 to 130 | 0.627 | 20.0  |
| BD06829 | Sodium, Dissolved      | mg/L  | 0.0149     | 0.0880   | 5.00  | 21.1    | 20.8    | 5.23     | 4.25 to 5.75       | 96.0 | 70.0 to 130 | 1.43  | 20.0  |
| BD06828 | Sodium, Total          | mg/L  | 0.000332   | 0.0880   | 5.00  | 761     | 761     | 4.87     | 4.25 to 5.75       | 120  | 70.0 to 130 | 0.00  | 20.0  |
| BD06781 | Sulfate                | mg/L  | 0.358      | 2.0      | 20.0  | 20.2    | 20.0    | 20.4     | 18.0 to 22.0       | 101  | 80.0 to 120 | 0.995 | 20.0  |
| BD06829 | Thallium, Dissolved    | mg/L  | -0.0000001 | 0.000147 | 0.100 | 0.0977  | 0.0992  | 0.0992   | 0.0850 to 0.115    | 97.7 | 70.0 to 130 | 1.52  | 20.0  |
| BD06828 | Thallium, Total        | mg/L  | 0.0000054  | 0.000147 | 0.100 | 0.0959  | 0.0990  | 0.0978   | 0.0850 to 0.115    | 95.5 | 70.0 to 130 | 3.18  | 20.0  |
| BD06828 | Total Organic Carbon   | mg/L  | 0.108      | 1.00     | 10.0  | 11.0    | 10.6    | 23.5     |                    | 94.6 | 80.0 to 120 | 3.70  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/4/23 15:50

**Customer ID:**

**Delivery Date:** 4/5/23 14:11

**Description:** Barry Ash Pond - MW-13V

**Laboratory ID Number:** BD06780

| Sample  | Analysis                  | Units      | MB   | MB Limit | Spike | MS   | Sample Duplicate | Standard Standard | Standard Limit | Rec | Rec Limit   | Prec  | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|-------------------|----------------|-----|-------------|-------|------------|
| BD06780 | Alkalinity to pH 4.5      | mg CaCO3/L |      |          |       |      | 147              | 50.5              | 45.0 to 55.0   |     |             | 0.678 | 10.0       |
| BD06781 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.05 | 0.200    | 2.00  | 2.05 | 0.032            | 2.07              | 1.80 to 2.20   | 102 | 90.0 to 110 | 0.00  | 15.0       |
| BD06780 | Solids, Dissolved         | mg/L       | 1.00 | 25.0     |       |      | 329              | 51.0              | 40.0 to 60.0   |     |             | 2.70  | 10.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond Field Blank-2

**Location Code:** WMWBARAPFB

**Collected:** 4/4/23 16:20

**Customer ID:**

**Submittal Date:** 4/5/23 14:11

**Laboratory ID Number:** BD06781

| Name                                | Prepared      | Analyzed            | Vio Spec | DF    | Results                             | Units     | MDL      | RL         | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-----------|----------|------------|---|
| <b>Analytical Method: EPA 200.7</b> |               | <b>Analyst: ABB</b> |          |       | <b>Preparation Method: EPA 1638</b> |           |          |            |   |
| * Boron, Total                      | 4/7/23 14:10  | 4/11/23 11:29       |          | 1.015 | Not Detected                        | mg/L      | 0.030000 | 0.1015     | U |
| * Calcium, Total                    | 4/7/23 14:10  | 4/11/23 11:29       |          | 1.015 | Not Detected                        | mg/L      | 0.070035 | 0.406      | U |
| * Iron, Total                       | 4/7/23 14:10  | 4/11/23 11:29       |          | 1.015 | Not Detected                        | mg/L      | 0.008120 | 0.0406     | U |
| * Lithium, Total                    | 4/7/23 14:10  | 4/11/23 11:29       |          | 1.015 | Not Detected                        | mg/L      | 0.007105 | 0.01999956 | U |
| * Magnesium, Total                  | 4/7/23 14:10  | 4/11/23 11:29       |          | 1.015 | Not Detected                        | mg/L      | 0.021315 | 0.406      | U |
| * Molybdenum, Total                 | 4/7/23 14:10  | 4/11/23 11:29       |          | 1.015 | Not Detected                        | mg/L      | 0.005075 | 0.01015    | U |
| * Silica, Total (calc.)             | 4/7/23 14:10  | 4/11/23 11:29       |          | 1     | Not Detected                        | mg/L      |          |            |   |
| * Silicon, Total                    | 4/7/23 14:10  | 4/11/23 11:29       |          | 1.015 | Not Detected                        | mg/L      | 0.02030  | 0.25375    | U |
| * Sodium, Total                     | 4/7/23 14:10  | 4/11/23 11:29       |          | 1.015 | Not Detected                        | mg/L      | 0.04060  | 0.406      | U |
| <b>Analytical Method: EPA 200.8</b> |               | <b>Analyst: DLJ</b> |          |       | <b>Preparation Method: EPA 1638</b> |           |          |            |   |
| * Antimony, Total                   | 4/7/23 14:10  | 4/7/23 16:54        |          | 1.015 | Not Detected                        | mg/L      | 0.000710 | 0.001015   | U |
| * Aluminum, Total                   | 4/7/23 14:10  | 4/7/23 16:54        |          | 1.015 | Not Detected                        | mg/L      | 0.009135 | 0.05075    | U |
| * Arsenic, Total                    | 4/7/23 14:10  | 4/7/23 16:54        |          | 1.015 | Not Detected                        | mg/L      | 0.000112 | 0.000203   | U |
| * Barium, Total                     | 4/7/23 14:10  | 4/7/23 16:54        |          | 1.015 | Not Detected                        | mg/L      | 0.000508 | 0.001015   | U |
| * Beryllium, Total                  | 4/7/23 14:10  | 4/7/23 16:54        |          | 1.015 | Not Detected                        | mg/L      | 0.000406 | 0.001015   | U |
| * Cadmium, Total                    | 4/7/23 14:10  | 4/7/23 16:54        |          | 1.015 | Not Detected                        | mg/L      | 0.000068 | 0.000203   | U |
| * Chromium, Total                   | 4/7/23 14:10  | 4/7/23 16:54        |          | 1.015 | Not Detected                        | mg/L      | 0.000203 | 0.001015   | U |
| * Cobalt, Total                     | 4/7/23 14:10  | 4/7/23 16:54        |          | 1.015 | Not Detected                        | mg/L      | 0.000068 | 0.000203   | U |
| * Lead, Total                       | 4/7/23 14:10  | 4/7/23 16:54        |          | 1.015 | Not Detected                        | mg/L      | 0.000068 | 0.000203   | U |
| * Manganese, Total                  | 4/7/23 14:10  | 4/7/23 16:54        |          | 1.015 | Not Detected                        | mg/L      | 0.000152 | 0.001015   | U |
| * Potassium, Total                  | 4/7/23 14:10  | 4/7/23 16:54        |          | 1.015 | Not Detected                        | mg/L      | 0.169505 | 0.5075     | U |
| * Selenium, Total                   | 4/7/23 14:10  | 4/7/23 16:54        |          | 1.015 | Not Detected                        | mg/L      | 0.000508 | 0.001015   | U |
| * Thallium, Total                   | 4/7/23 14:10  | 4/7/23 16:54        |          | 1.015 | Not Detected                        | mg/L      | 0.000068 | 0.000203   | U |
| <b>Analytical Method: EPA 245.1</b> |               | <b>Analyst: CRB</b> |          |       |                                     |           |          |            |   |
| * Mercury, Total by CVAA            | 4/11/23 18:35 | 4/12/23 00:54       |          | 1     | Not Detected                        | mg/L      | 0.0003   | 0.0005     | U |
| <b>Analytical Method: EPA 353.2</b> |               | <b>Analyst: SC</b>  |          |       |                                     |           |          |            |   |
| * Nitrogen, Nitrate/Nitrite         | 4/6/23 09:51  | 4/6/23 09:51        |          | 1     | Not Detected                        | mg/L as N | 0.20     | 0.3        | U |
| <b>Analytical Method: SM 2540C</b>  |               | <b>Analyst: CNJ</b> |          |       |                                     |           |          |            |   |
| * Solids, Dissolved                 | 4/7/23 10:42  | 4/10/23 13:50       |          | 1     | Not Detected                        | mg/L      |          | 25         | U |

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

**Comments:**

# Certificate Of Analysis

**Description:** Barry Ash Pond Field Blank-2

**Location Code:** WMWBARAPFB

**Collected:** 4/4/23 16:20

**Customer ID:**

**Submittal Date:** 4/5/23 14:11

**Laboratory ID Number:** BD06781

| Name                                       | Prepared      | Analyzed            | Vio Spec | DF | Results      | Units | MDL  | RL    | Q |
|--|---------------|---------------------|----------|----|--------------|-------|------|-------|---|
| <b>Analytical Method: SM 5310 B</b>        |               | <b>Analyst: SC</b>  |          |    |              |       |      |       |   |
| * Total Organic Carbon                     | 4/12/23 12:01 | 4/12/23 12:01       |          | 1  | Not Detected | mg/L  | 1.00 | 2     | U |
| <b>Analytical Method: SM4500Cl E</b>       |               | <b>Analyst: CES</b> |          |    |              |       |      |       |   |
| * Chloride                                 | 4/12/23 12:06 | 4/12/23 12:06       |          | 1  | Not Detected | mg/L  | 0.50 | 0.5   | U |
| <b>Analytical Method: SM4500F G 2017</b>   |               | <b>Analyst: CES</b> |          |    |              |       |      |       |   |
| * Fluoride                                 | 4/13/23 11:19 | 4/13/23 11:19       |          | 1  | Not Detected | mg/L  | 0.06 | 0.125 | U |
| <b>Analytical Method: SM4500SO4 E 2011</b> |               | <b>Analyst: JCC</b> |          |    |              |       |      |       |   |
| * Sulfate                                  | 4/6/23 11:13  | 4/6/23 11:13        |          | 1  | Not Detected | mg/L  | 0.6  | 2     | U |

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

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**Comments:**



# Batch QC Summary

**Customer Account:** WMWBARAPFB  
**Sample Date:** 4/4/23 16:20  
**Customer ID:**  
**Delivery Date:** 4/5/23 14:11

**Description:** Barry Ash Pond Field Blank-2

**Laboratory ID Number:** BD06781

| Sample  | Analysis               | Units | MB         |          |       |         |         | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB         | Limit    | Spike | MS      | MSD     | Standard | Limit              | Rec  | Limit       |       |       |
| BD06828 | Aluminum, Total        | mg/L  | 0.000609   | 0.0198   | 0.100 | 0.139   | 0.139   | 0.103    | 0.0850 to 0.115    | 99.8 | 70.0 to 130 | 0.00  | 20.0  |
| BD06828 | Antimony, Total        | mg/L  | 0.000237   | 0.00100  | 0.100 | 0.0875  | 0.0922  | 0.0867   | 0.0850 to 0.115    | 87.5 | 70.0 to 130 | 5.23  | 20.0  |
| BD06828 | Arsenic, Total         | mg/L  | 0.0000156  | 0.000200 | 0.100 | 0.0969  | 0.0996  | 0.0998   | 0.0850 to 0.115    | 95.8 | 70.0 to 130 | 2.75  | 20.0  |
| BD06828 | Barium, Total          | mg/L  | -0.0000063 | 0.00100  | 0.100 | 1.14    | 1.19    | 0.0923   | 0.0850 to 0.115    | 30.0 | 70.0 to 130 | 4.29  | 20.0  |
| BD06828 | Beryllium, Total       | mg/L  | 0.0000000  | 0.000880 | 0.100 | 0.0921  | 0.0959  | 0.0944   | 0.0850 to 0.115    | 92.1 | 70.0 to 130 | 4.04  | 20.0  |
| BD06828 | Boron, Total           | mg/L  | -0.000537  | 0.0650   | 1.00  | 1.35    | 1.34    | 1.02     | 0.850 to 1.15      | 106  | 70.0 to 130 | 0.743 | 20.0  |
| BD06828 | Cadmium, Total         | mg/L  | 0.0000043  | 0.000147 | 0.100 | 0.0895  | 0.0918  | 0.0962   | 0.0850 to 0.115    | 89.4 | 70.0 to 130 | 2.54  | 20.0  |
| BD06828 | Calcium, Total         | mg/L  | -0.0178    | 0.152    | 5.00  | 85.0    | 86.4    | 5.00     | 4.25 to 5.75       | 36.0 | 70.0 to 130 | 1.63  | 20.0  |
| BD06827 | Chloride               | mg/L  | 0.0514     | 1.00     | 800   | 1580    | 1590    | 10.2     | 9.00 to 11.0       | 105  | 80.0 to 120 | 0.631 | 20.0  |
| BD06828 | Chromium, Total        | mg/L  | -0.0000476 | 0.000440 | 0.100 | 0.0926  | 0.0929  | 0.0965   | 0.0850 to 0.115    | 92.4 | 70.0 to 130 | 0.323 | 20.0  |
| BD06828 | Cobalt, Total          | mg/L  | 0.0000042  | 0.000147 | 0.100 | 0.219   | 0.220   | 0.0997   | 0.0850 to 0.115    | 89.0 | 70.0 to 130 | 0.456 | 20.0  |
| BD06828 | Fluoride               | mg/L  | -0.00644   | 0.125    | 2.50  | 2.78    | 2.79    | 2.62     | 2.25 to 2.75       | 107  | 80.0 to 120 | 0.359 | 20.0  |
| BD06828 | Iron, Total            | mg/L  | 0.000416   | 0.0176   | 0.2   | 0.648   | 0.649   | 0.200    | 0.170 to 0.230     | 98.0 | 70.0 to 130 | 0.154 | 20.0  |
| BD06828 | Lead, Total            | mg/L  | 0.0000027  | 0.000147 | 0.100 | 0.0928  | 0.0958  | 0.0945   | 0.0850 to 0.115    | 92.8 | 70.0 to 130 | 3.18  | 20.0  |
| BD06828 | Lithium, Total         | mg/L  | -0.000701  | 0.0154   | 0.200 | 0.220   | 0.221   | 0.199    | 0.170 to 0.230     | 110  | 70.0 to 130 | 0.454 | 20.0  |
| BD06828 | Magnesium, Total       | mg/L  | -0.00548   | 0.0462   | 5.00  | 77.6    | 75.3    | 4.93     | 4.25 to 5.75       | 102  | 70.0 to 130 | 3.01  | 20.0  |
| BD06828 | Manganese, Total       | mg/L  | 0.000200   | 0.00033  | 0.100 | 4.77    | 4.92    | 0.0980   | 0.0850 to 0.115    | 70.0 | 70.0 to 130 | 3.10  | 20.0  |
| BD06828 | Mercury, Total by CVAA | mg/L  | 2.000E-05  | 0.000500 | 0.004 | 0.00397 | 0.00409 | 0.00403  | 0.00340 to 0.00460 | 99.2 | 70.0 to 130 | 2.98  | 20.0  |
| BD06828 | Molybdenum, Total      | mg/L  | -0.001     | 0.0100   | 0.2   | 0.202   | 0.201   | 0.201    | 0.170 to 0.230     | 101  | 70.0 to 130 | 0.496 | 20.0  |
| BD06828 | Potassium, Total       | mg/L  | -0.00778   | 0.367    | 10.0  | 25.9    | 26.1    | 9.95     | 8.50 to 11.5       | 88.0 | 70.0 to 130 | 0.769 | 20.0  |
| BD06828 | Selenium, Total        | mg/L  | 0.0000454  | 0.00100  | 0.100 | 0.0951  | 0.0968  | 0.100    | 0.0850 to 0.115    | 95.1 | 70.0 to 130 | 1.77  | 20.0  |
| BD06828 | Silicon, Total         | mg/L  | -0.000048  | 0.0440   | 1.00  | 6.40    | 6.36    | 1.02     | 0.850 to 1.15      | 101  | 70.0 to 130 | 0.627 | 20.0  |
| BD06828 | Sodium, Total          | mg/L  | 0.000332   | 0.0880   | 5.00  | 761     | 761     | 4.87     | 4.25 to 5.75       | 120  | 70.0 to 130 | 0.00  | 20.0  |
| BD06781 | Sulfate                | mg/L  | 0.358      | 2.0      | 20.0  | 20.2    | 20.0    | 20.4     | 18.0 to 22.0       | 101  | 80.0 to 120 | 0.995 | 20.0  |

**Comments:**

# Batch QC Summary

**Customer Account:** WMWBARAPFB

**Sample Date:** 4/4/23 16:20

**Customer ID:**

**Delivery Date:** 4/5/23 14:11

**Description:** Barry Ash Pond Field Blank-2

**Laboratory ID Number:** BD06781

| Sample  | Analysis             | Units | MB        | MB       |       |        |        | Standard |                 | Rec  |             | Prec |       |
|---------|----------------------|-------|-----------|----------|-------|--------|--------|----------|-----------------|------|-------------|------|-------|
|         |                      |       |           | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec  | Limit       | Prec | Limit |
| BD06828 | Thallium, Total      | mg/L  | 0.0000054 | 0.000147 | 0.100 | 0.0959 | 0.0990 | 0.0978   | 0.0850 to 0.115 | 95.5 | 70.0 to 130 | 3.18 | 20.0  |
| BD06828 | Total Organic Carbon | mg/L  | 0.108     | 1.00     | 10.0  | 11.0   | 10.6   | 23.5     |                 | 94.6 | 80.0 to 120 | 3.70 | 20.0  |

**Comments:**

## Batch QC Summary

**Customer Account:** WMWBARAPFB

**Sample Date:** 4/4/23 16:20

**Customer ID:**

**Delivery Date:** 4/5/23 14:11

**Description:** Barry Ash Pond Field Blank-2

**Laboratory ID Number:** BD06781

| Sample  | Analysis                  | Units     | MB   | MB<br>Limit | Spike | MS   | Sample<br>Duplicate | Standard | Standard<br>Limit | Rec | Rec<br>Limit | Prec | Prec<br>Limit |
|---------|---------------------------|-----------|------|-------------|-------|------|---------------------|----------|-------------------|-----|--------------|------|---------------|
| BD06781 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.05 | 0.200       | 2.00  | 2.05 | 0.032               | 2.07     | 1.80 to 2.20      | 102 | 90.0 to 110  | 0.00 | 15.0          |
| BD06780 | Solids, Dissolved         | mg/L      | 1.00 | 25.0        |       |      | 329                 | 51.0     | 40.0 to 60.0      |     |              | 2.70 | 10.0          |

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**Comments:**

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-23H

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 11:15  
**Customer ID:**  
**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06826

| Name                                | Prepared     | Analyzed      | Vio Spec            | DF    | Results                             | Units | MDL      | RL         | Q |
|-------------------------------------|--------------|---------------|---------------------|-------|-------------------------------------|-------|----------|------------|---|
| <b>Analytical Method: EPA 200.7</b> |              |               | <b>Analyst: ABB</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Boron, Total                      | 4/7/23 14:10 | 4/11/23 11:32 |                     | 1.015 | 0.0481                              | mg/L  | 0.030000 | 0.1015     | J |
| * Calcium, Total                    | 4/7/23 14:10 | 4/11/23 11:32 |                     | 1.015 | 23.5                                | mg/L  | 0.070035 | 0.406      |   |
| * Iron, Total                       | 4/7/23 14:10 | 4/11/23 13:35 |                     | 101.5 | 54.7                                | mg/L  | 0.8120   | 4.06       |   |
| * Lithium, Total                    | 4/7/23 14:10 | 4/11/23 11:32 |                     | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |
| * Magnesium, Total                  | 4/7/23 14:10 | 4/11/23 11:32 |                     | 1.015 | 6.51                                | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Total                 | 4/7/23 14:10 | 4/11/23 11:32 |                     | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Total (calc.)             | 4/7/23 14:10 | 4/11/23 11:32 |                     | 1     | 33.0                                | mg/L  |          |            |   |
| * Silicon, Total                    | 4/7/23 14:10 | 4/11/23 11:32 |                     | 1.015 | 15.4                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Total                     | 4/7/23 14:10 | 4/11/23 11:32 |                     | 1.015 | 17.3                                | mg/L  | 0.04060  | 0.406      |   |
| <b>Analytical Method: EPA 200.7</b> |              |               | <b>Analyst: ABB</b> |       |                                     |       |          |            |   |
| * Boron, Dissolved                  | 4/7/23 11:45 | 4/12/23 11:30 |                     | 1.015 | 0.0472                              | mg/L  | 0.030000 | 0.1015     | J |
| * Calcium, Dissolved                | 4/7/23 11:45 | 4/12/23 11:30 |                     | 1.015 | 23.0                                | mg/L  | 0.070035 | 0.406      |   |
| * Iron, Dissolved                   | 4/7/23 11:45 | 4/12/23 13:36 |                     | 101.5 | 52.4                                | mg/L  | 0.8120   | 4.06       |   |
| * Lithium, Dissolved                | 4/7/23 11:45 | 4/12/23 11:30 |                     | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |
| * Magnesium, Dissolved              | 4/7/23 11:45 | 4/12/23 11:30 |                     | 1.015 | 6.40                                | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Dissolved             | 4/7/23 11:45 | 4/12/23 11:30 |                     | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Dissolved (calc.)         | 4/7/23 11:45 | 4/12/23 11:30 |                     | 1     | 32.5                                | mg/L  |          |            |   |
| * Silicon, Dissolved                | 4/7/23 11:45 | 4/12/23 11:30 |                     | 1.015 | 15.2                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Dissolved                 | 4/7/23 11:45 | 4/12/23 12:43 |                     | 1.015 | 16.8                                | mg/L  | 0.04060  | 0.406      |   |
| <b>Analytical Method: EPA 200.8</b> |              |               | <b>Analyst: DLJ</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Antimony, Total                   | 4/7/23 14:10 | 4/7/23 16:58  |                     | 1.015 | Not Detected                        | mg/L  | 0.000710 | 0.001015   | U |
| * Aluminum, Total                   | 4/7/23 14:10 | 4/7/23 16:58  |                     | 1.015 | 0.0441                              | mg/L  | 0.009135 | 0.05075    | J |
| * Arsenic, Total                    | 4/7/23 14:10 | 4/7/23 16:58  |                     | 1.015 | 0.00291                             | mg/L  | 0.000112 | 0.000203   |   |
| * Barium, Total                     | 4/7/23 14:10 | 4/7/23 16:58  |                     | 1.015 | 0.159                               | mg/L  | 0.000508 | 0.001015   |   |
| * Beryllium, Total                  | 4/7/23 14:10 | 4/7/23 16:58  |                     | 1.015 | Not Detected                        | mg/L  | 0.000406 | 0.001015   | U |
| * Cadmium, Total                    | 4/7/23 14:10 | 4/7/23 16:58  |                     | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |
| * Chromium, Total                   | 4/7/23 14:10 | 4/7/23 16:58  |                     | 1.015 | 0.000406                            | mg/L  | 0.000203 | 0.001015   | J |
| * Cobalt, Total                     | 4/7/23 14:10 | 4/7/23 16:58  |                     | 1.015 | 0.000522                            | mg/L  | 0.000068 | 0.000203   |   |
| * Lead, Total                       | 4/7/23 14:10 | 4/7/23 16:58  |                     | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |
| * Manganese, Total                  | 4/7/23 14:10 | 4/7/23 16:58  |                     | 1.015 | 0.879                               | mg/L  | 0.000152 | 0.001015   |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-23H

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 11:15  
**Customer ID:**  
**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06826

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/7/23 14:10  | 4/7/23 16:58        |          | 1.015 | 1.03         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/7/23 14:10  | 4/7/23 16:58        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/7/23 14:10  | 4/7/23 16:58        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:49        |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:49        |          | 1.015 | Not Detected | mg/L       | 0.009135 | 0.05075  | U |
| * Arsenic, Dissolved                   | 4/7/23 11:45  | 4/7/23 13:49        |          | 1.015 | 0.00288      | mg/L       | 0.000112 | 0.000203 |   |
| * Barium, Dissolved                    | 4/7/23 11:45  | 4/7/23 13:49        |          | 1.015 | 0.150        | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/7/23 11:45  | 4/7/23 13:49        |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/7/23 11:45  | 4/7/23 13:49        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:49        |          | 1.015 | 0.000432     | mg/L       | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved                    | 4/7/23 11:45  | 4/7/23 13:49        |          | 1.015 | 0.000523     | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/7/23 11:45  | 4/7/23 13:49        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/7/23 11:45  | 4/7/23 13:49        |          | 1.015 | 0.861        | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/7/23 11:45  | 4/7/23 13:49        |          | 1.015 | 1.02         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:49        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:49        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/11/23 18:35 | 4/12/23 00:58       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/10/23 14:43 | 4/10/23 14:43       |          | 1     | Not Detected | mg/L as N  | 0.20     | 0.3      | U |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/18/23 10:05 | 4/18/23 11:02       |          | 1     | 149          | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/7/23 10:42  | 4/10/23 13:50       |          | 1     | 216          | mg/L       |          | 25       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/18/23 10:05 | 4/18/23 11:02       |          | 1     | 149          | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 4/18/23 10:05 | 4/18/23 11:02       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/12/23 12:15 | 4/12/23 12:15       |          | 1     | 4.16         | mg/L       | 1.00     | 2        |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-23H

**Location Code:** WMWBARAP

**Collected:** 4/4/23 11:15

**Customer ID:**

**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06826

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Chloride                                   | 4/12/23 12:00 | 4/12/23 12:00       |          | 1  | 9.01    | mg/L  | 0.50 | 0.5   |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Fluoride                                   | 4/13/23 11:20 | 4/13/23 11:20       |          | 1  | 0.0744  | mg/L  | 0.06 | 0.125 | J  |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |         |       |      |       |    |
| * Sulfate                                    | 4/17/23 14:24 | 4/17/23 14:24       |          | 1  | 15.2    | mg/L  | 0.6  | 2     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: AWG</b> |          |    |         |       |      |       |    |
| Conductivity                                 | 4/4/23 11:12  | 4/4/23 11:12        |          |    | 396.41  | uS/cm |      |       | FA |
| pH   | 4/4/23 11:12  | 4/4/23 11:12        |          |    | 5.94    | SU    |      |       | FA |
| Temperature                                  | 4/4/23 11:12  | 4/4/23 11:12        |          |    | 20.14   | C     |      |       | FA |
| Turbidity                                    | 4/4/23 11:12  | 4/4/23 11:12        |          |    | 3.24    | NTU   |      |       | FA |
| Sulfide                                      | 4/4/23 11:12  | 4/4/23 11:12        |          |    | 0       | mg/L  |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/4/23 11:15  
**Customer ID:**  
**Delivery Date:** 4/6/23 11:49

**Description:** Barry Ash Pond - MW-23H

**Laboratory ID Number:** BD06826

| Sample  | Analysis             | Units | MB         | MB       |       |        |        | Standard |                 | Rec   |             | Prec  | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|-------|-------------|-------|-------|
|         |                      |       |            | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec   | Limit       |       |       |
| BD06829 | Aluminum, Dissolved  | mg/L  | 0.0000353  | 0.0198   | 0.100 | 0.101  | 0.102  | 0.0999   | 0.0850 to 0.115 | 101   | 70.0 to 130 | 0.985 | 20.0  |
| BD06828 | Aluminum, Total      | mg/L  | 0.000609   | 0.0198   | 0.100 | 0.139  | 0.139  | 0.103    | 0.0850 to 0.115 | 99.8  | 70.0 to 130 | 0.00  | 20.0  |
| BD06829 | Antimony, Dissolved  | mg/L  | 0.000377   | 0.00100  | 0.100 | 0.0881 | 0.0905 | 0.0898   | 0.0850 to 0.115 | 88.1  | 70.0 to 130 | 2.69  | 20.0  |
| BD06828 | Antimony, Total      | mg/L  | 0.000237   | 0.00100  | 0.100 | 0.0875 | 0.0922 | 0.0867   | 0.0850 to 0.115 | 87.5  | 70.0 to 130 | 5.23  | 20.0  |
| BD06829 | Arsenic, Dissolved   | mg/L  | 0.0000113  | 0.000200 | 0.100 | 0.121  | 0.124  | 0.0990   | 0.0850 to 0.115 | 98.1  | 70.0 to 130 | 2.45  | 20.0  |
| BD06828 | Arsenic, Total       | mg/L  | 0.0000156  | 0.000200 | 0.100 | 0.0969 | 0.0996 | 0.0998   | 0.0850 to 0.115 | 95.8  | 70.0 to 130 | 2.75  | 20.0  |
| BD06829 | Barium, Dissolved    | mg/L  | 0.0000105  | 0.00100  | 0.100 | 0.210  | 0.210  | 0.0944   | 0.0850 to 0.115 | 93.0  | 70.0 to 130 | 0.00  | 20.0  |
| BD06828 | Barium, Total        | mg/L  | -0.0000063 | 0.00100  | 0.100 | 1.14   | 1.19   | 0.0923   | 0.0850 to 0.115 | 30.0  | 70.0 to 130 | 4.29  | 20.0  |
| BD06829 | Beryllium, Dissolved | mg/L  | 0.0000117  | 0.000880 | 0.100 | 0.0899 | 0.0944 | 0.0908   | 0.0850 to 0.115 | 89.9  | 70.0 to 130 | 4.88  | 20.0  |
| BD06828 | Beryllium, Total     | mg/L  | 0.0000000  | 0.000880 | 0.100 | 0.0921 | 0.0959 | 0.0944   | 0.0850 to 0.115 | 92.1  | 70.0 to 130 | 4.04  | 20.0  |
| BD06829 | Boron, Dissolved     | mg/L  | -0.000075  | 0.0650   | 1.00  | 1.01   | 1.06   | 1.00     | 0.850 to 1.15   | 96.4  | 70.0 to 130 | 4.83  | 20.0  |
| BD06828 | Boron, Total         | mg/L  | -0.000537  | 0.0650   | 1.00  | 1.35   | 1.34   | 1.02     | 0.850 to 1.15   | 106   | 70.0 to 130 | 0.743 | 20.0  |
| BD06829 | Cadmium, Dissolved   | mg/L  | 0.0000046  | 0.000147 | 0.100 | 0.0963 | 0.0981 | 0.0982   | 0.0850 to 0.115 | 96.3  | 70.0 to 130 | 1.85  | 20.0  |
| BD06828 | Cadmium, Total       | mg/L  | 0.0000043  | 0.000147 | 0.100 | 0.0895 | 0.0918 | 0.0962   | 0.0850 to 0.115 | 89.4  | 70.0 to 130 | 2.54  | 20.0  |
| BD06829 | Calcium, Dissolved   | mg/L  | -0.00493   | 0.152    | 5.00  | 14.7   | 14.6   | 4.94     | 4.25 to 5.75    | 92.0  | 70.0 to 130 | 0.683 | 20.0  |
| BD06828 | Calcium, Total       | mg/L  | -0.0178    | 0.152    | 5.00  | 85.0   | 86.4   | 5.00     | 4.25 to 5.75    | 36.0  | 70.0 to 130 | 1.63  | 20.0  |
| BD06827 | Chloride             | mg/L  | 0.0514     | 1.00     | 800   | 1580   | 1590   | 10.2     | 9.00 to 11.0    | 105   | 80.0 to 120 | 0.631 | 20.0  |
| BD06829 | Chromium, Dissolved  | mg/L  | -0.0000370 | 0.000440 | 0.100 | 0.0967 | 0.0995 | 0.0995   | 0.0850 to 0.115 | 96.7  | 70.0 to 130 | 2.85  | 20.0  |
| BD06828 | Chromium, Total      | mg/L  | -0.0000476 | 0.000440 | 0.100 | 0.0926 | 0.0929 | 0.0965   | 0.0850 to 0.115 | 92.4  | 70.0 to 130 | 0.323 | 20.0  |
| BD06829 | Cobalt, Dissolved    | mg/L  | -0.0000017 | 0.000147 | 0.100 | 0.101  | 0.104  | 0.101    | 0.0850 to 0.115 | 100   | 70.0 to 130 | 2.93  | 20.0  |
| BD06828 | Cobalt, Total        | mg/L  | 0.0000042  | 0.000147 | 0.100 | 0.219  | 0.220  | 0.0997   | 0.0850 to 0.115 | 89.0  | 70.0 to 130 | 0.456 | 20.0  |
| BD06828 | Fluoride             | mg/L  | -0.00644   | 0.125    | 2.50  | 2.78   | 2.79   | 2.62     | 2.25 to 2.75    | 107   | 80.0 to 120 | 0.359 | 20.0  |
| BD06829 | Iron, Dissolved      | mg/L  | -0.00183   | 0.0176   | 0.2   | 60.3   | 60.4   | 0.195    | 0.170 to 0.230  | -50.0 | 70.0 to 130 | 0.166 | 20.0  |
| BD06828 | Iron, Total          | mg/L  | 0.000416   | 0.0176   | 0.2   | 0.648  | 0.649  | 0.200    | 0.170 to 0.230  | 98.0  | 70.0 to 130 | 0.154 | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/4/23 11:15

**Customer ID:**

**Delivery Date:** 4/6/23 11:49

**Description:** Barry Ash Pond - MW-23H

**Laboratory ID Number:** BD06826

| Sample  | Analysis               | Units | MB         | MB       |       | Spike   | MS      | MSD     | Standard           |       | Rec         |       | Prec |
|---------|------------------------|-------|------------|----------|-------|---------|---------|---------|--------------------|-------|-------------|-------|------|
|         |                        |       |            | Limit    |       |         |         |         | Standard           | Limit | Rec         | Limit |      |
| BD06829 | Lead, Dissolved        | mg/L  | 0.0000118  | 0.000147 | 0.100 | 0.0948  | 0.0971  | 0.0971  | 0.0850 to 0.115    | 94.8  | 70.0 to 130 | 2.40  | 20.0 |
| BD06828 | Lead, Total            | mg/L  | 0.0000027  | 0.000147 | 0.100 | 0.0928  | 0.0958  | 0.0945  | 0.0850 to 0.115    | 92.8  | 70.0 to 130 | 3.18  | 20.0 |
| BD06829 | Lithium, Dissolved     | mg/L  | 0.000245   | 0.0154   | 0.200 | 0.199   | 0.200   | 0.195   | 0.170 to 0.230     | 99.5  | 70.0 to 130 | 0.501 | 20.0 |
| BD06828 | Lithium, Total         | mg/L  | -0.000701  | 0.0154   | 0.200 | 0.220   | 0.221   | 0.199   | 0.170 to 0.230     | 110   | 70.0 to 130 | 0.454 | 20.0 |
| BD06829 | Magnesium, Dissolved   | mg/L  | 0.000      | 0.0462   | 5.00  | 9.49    | 9.46    | 4.93    | 4.25 to 5.75       | 93.2  | 70.0 to 130 | 0.317 | 20.0 |
| BD06828 | Magnesium, Total       | mg/L  | -0.00548   | 0.0462   | 5.00  | 77.6    | 75.3    | 4.93    | 4.25 to 5.75       | 102   | 70.0 to 130 | 3.01  | 20.0 |
| BD06829 | Manganese, Dissolved   | mg/L  | 0.0000167  | 0.00033  | 0.100 | 0.378   | 0.382   | 0.101   | 0.0850 to 0.115    | 98.0  | 70.0 to 130 | 1.05  | 20.0 |
| BD06828 | Manganese, Total       | mg/L  | 0.000200   | 0.00033  | 0.100 | 4.77    | 4.92    | 0.0980  | 0.0850 to 0.115    | 70.0  | 70.0 to 130 | 3.10  | 20.0 |
| BD06828 | Mercury, Total by CVAA | mg/L  | 2.000E-05  | 0.000500 | 0.004 | 0.00397 | 0.00409 | 0.00403 | 0.00340 to 0.00460 | 99.2  | 70.0 to 130 | 2.98  | 20.0 |
| BD06829 | Molybdenum, Dissolved  | mg/L  | -0.000152  | 0.0100   | 0.2   | 0.194   | 0.196   | 0.195   | 0.170 to 0.230     | 97.0  | 70.0 to 130 | 1.03  | 20.0 |
| BD06828 | Molybdenum, Total      | mg/L  | -0.001     | 0.0100   | 0.2   | 0.202   | 0.201   | 0.201   | 0.170 to 0.230     | 101   | 70.0 to 130 | 0.496 | 20.0 |
| BD06829 | Potassium, Dissolved   | mg/L  | 0.00935    | 0.367    | 10.0  | 11.2    | 11.3    | 9.82    | 8.50 to 11.5       | 97.4  | 70.0 to 130 | 0.889 | 20.0 |
| BD06828 | Potassium, Total       | mg/L  | -0.00778   | 0.367    | 10.0  | 25.9    | 26.1    | 9.95    | 8.50 to 11.5       | 88.0  | 70.0 to 130 | 0.769 | 20.0 |
| BD06829 | Selenium, Dissolved    | mg/L  | 0.000102   | 0.00100  | 0.100 | 0.102   | 0.103   | 0.0997  | 0.0850 to 0.115    | 102   | 70.0 to 130 | 0.976 | 20.0 |
| BD06828 | Selenium, Total        | mg/L  | 0.0000454  | 0.00100  | 0.100 | 0.0951  | 0.0968  | 0.100   | 0.0850 to 0.115    | 95.1  | 70.0 to 130 | 1.77  | 20.0 |
| BD06829 | Silicon, Dissolved     | mg/L  | 0.000229   | 0.0440   | 1.00  | 8.70    | 8.71    | 0.997   | 0.850 to 1.15      | 96.0  | 70.0 to 130 | 0.115 | 20.0 |
| BD06828 | Silicon, Total         | mg/L  | -0.000048  | 0.0440   | 1.00  | 6.40    | 6.36    | 1.02    | 0.850 to 1.15      | 101   | 70.0 to 130 | 0.627 | 20.0 |
| BD06829 | Sodium, Dissolved      | mg/L  | 0.0149     | 0.0880   | 5.00  | 21.1    | 20.8    | 5.23    | 4.25 to 5.75       | 96.0  | 70.0 to 130 | 1.43  | 20.0 |
| BD06828 | Sodium, Total          | mg/L  | 0.000332   | 0.0880   | 5.00  | 761     | 761     | 4.87    | 4.25 to 5.75       | 120   | 70.0 to 130 | 0.00  | 20.0 |
| BD06835 | Sulfate                | mg/L  | -0.0671    | 2.0      | 20.0  | 22.3    | 22.4    | 19.9    | 18.0 to 22.0       | 96.9  | 80.0 to 120 | 0.447 | 20.0 |
| BD06829 | Thallium, Dissolved    | mg/L  | -0.0000001 | 0.000147 | 0.100 | 0.0977  | 0.0992  | 0.0992  | 0.0850 to 0.115    | 97.7  | 70.0 to 130 | 1.52  | 20.0 |
| BD06828 | Thallium, Total        | mg/L  | 0.0000054  | 0.000147 | 0.100 | 0.0959  | 0.0990  | 0.0978  | 0.0850 to 0.115    | 95.5  | 70.0 to 130 | 3.18  | 20.0 |
| BD06828 | Total Organic Carbon   | mg/L  | 0.108      | 1.00     | 10.0  | 11.0    | 10.6    | 23.5    |                    | 94.6  | 80.0 to 120 | 3.70  | 20.0 |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/4/23 11:15

**Customer ID:**

**Delivery Date:** 4/6/23 11:49

**Description:** Barry Ash Pond - MW-23H

**Laboratory ID Number:** BD06826

| Sample  | Analysis                  | Units      | MB   | MB Limit | Spike | MS   | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit   | Prec  | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|----------|----------------|-----|-------------|-------|------------|
| BD06839 | Alkalinity to pH 4.5      | mg CaCO3/L |      |          |       |      | 167              | 50.5     | 45.0 to 55.0   |     |             | 0.601 | 10.0       |
| BD06835 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.04 | 0.200    | 2.00  | 2.32 | 0.166            | 1.92     | 1.80 to 2.20   | 116 | 90.0 to 110 | 0.00  | 15.0       |
| BD06836 | Solids, Dissolved         | mg/L       | 1.00 | 25.0     |       |      | 222              | 51.0     | 40.0 to 60.0   |     |             | 1.36  | 10.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-23V

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 11:55  
**Customer ID:**  
**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06827

| Name                                | Prepared     | Analyzed      | Vio Spec            | DF    | Results                             | Units | MDL      | RL         | Q |
|-------------------------------------|--------------|---------------|---------------------|-------|-------------------------------------|-------|----------|------------|---|
| <b>Analytical Method: EPA 200.7</b> |              |               | <b>Analyst: ABB</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Boron, Total                      | 4/7/23 14:10 | 4/11/23 11:36 |                     | 1.015 | 0.245                               | mg/L  | 0.030000 | 0.1015     |   |
| * Calcium, Total                    | 4/7/23 14:10 | 4/11/23 13:38 |                     | 101.5 | 42.5                                | mg/L  | 7.0035   | 40.6       |   |
| * Iron, Total                       | 4/7/23 14:10 | 4/11/23 13:38 |                     | 101.5 | 35.3                                | mg/L  | 0.8120   | 4.06       |   |
| * Lithium, Total                    | 4/7/23 14:10 | 4/11/23 11:36 |                     | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |
| * Magnesium, Total                  | 4/7/23 14:10 | 4/11/23 11:36 |                     | 1.015 | 38.2                                | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Total                 | 4/7/23 14:10 | 4/11/23 11:36 |                     | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Total (calc.)             | 4/7/23 14:10 | 4/11/23 11:36 |                     | 1     | 17.0                                | mg/L  |          |            |   |
| * Silicon, Total                    | 4/7/23 14:10 | 4/11/23 11:36 |                     | 1.015 | 7.94                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Total                     | 4/7/23 14:10 | 4/11/23 13:38 |                     | 101.5 | 361                                 | mg/L  | 4.060    | 40.6       |   |
| <b>Analytical Method: EPA 200.7</b> |              |               | <b>Analyst: ABB</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Boron, Dissolved                  | 4/7/23 11:45 | 4/12/23 11:33 |                     | 1.015 | 0.246                               | mg/L  | 0.030000 | 0.1015     |   |
| * Calcium, Dissolved                | 4/7/23 11:45 | 4/12/23 13:40 |                     | 101.5 | 42.6                                | mg/L  | 7.0035   | 40.6       |   |
| * Iron, Dissolved                   | 4/7/23 11:45 | 4/12/23 13:40 |                     | 101.5 | 33.9                                | mg/L  | 0.8120   | 4.06       |   |
| * Lithium, Dissolved                | 4/7/23 11:45 | 4/12/23 11:33 |                     | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |
| * Magnesium, Dissolved              | 4/7/23 11:45 | 4/12/23 11:33 |                     | 1.015 | 38.6                                | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Dissolved             | 4/7/23 11:45 | 4/12/23 11:33 |                     | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Dissolved (calc.)         | 4/7/23 11:45 | 4/12/23 11:33 |                     | 1     | 16.9                                | mg/L  |          |            |   |
| * Silicon, Dissolved                | 4/7/23 11:45 | 4/12/23 11:33 |                     | 1.015 | 7.88                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Dissolved                 | 4/7/23 11:45 | 4/12/23 13:40 |                     | 101.5 | 369                                 | mg/L  | 4.060    | 40.6       |   |
| <b>Analytical Method: EPA 200.8</b> |              |               | <b>Analyst: DLJ</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Antimony, Total                   | 4/7/23 14:10 | 4/7/23 17:02  |                     | 1.015 | Not Detected                        | mg/L  | 0.000710 | 0.001015   | U |
| * Aluminum, Total                   | 4/7/23 14:10 | 4/7/23 17:02  |                     | 1.015 | Not Detected                        | mg/L  | 0.009135 | 0.05075    | U |
| * Arsenic, Total                    | 4/7/23 14:10 | 4/7/23 17:02  |                     | 1.015 | 0.00445                             | mg/L  | 0.000112 | 0.000203   |   |
| * Barium, Total                     | 4/7/23 14:10 | 4/7/23 17:02  |                     | 1.015 | 0.262                               | mg/L  | 0.000508 | 0.001015   |   |
| * Beryllium, Total                  | 4/7/23 14:10 | 4/7/23 17:02  |                     | 1.015 | Not Detected                        | mg/L  | 0.000406 | 0.001015   | U |
| * Cadmium, Total                    | 4/7/23 14:10 | 4/7/23 17:02  |                     | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |
| * Chromium, Total                   | 4/7/23 14:10 | 4/7/23 17:02  |                     | 1.015 | 0.000237                            | mg/L  | 0.000203 | 0.001015   | J |
| * Cobalt, Total                     | 4/7/23 14:10 | 4/7/23 17:02  |                     | 1.015 | 0.0375                              | mg/L  | 0.000068 | 0.000203   |   |
| * Lead, Total                       | 4/7/23 14:10 | 4/7/23 17:02  |                     | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |
| * Manganese, Total                  | 4/7/23 14:10 | 4/7/23 17:02  |                     | 1.015 | 1.14                                | mg/L  | 0.000152 | 0.001015   |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-23V

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 11:55  
**Customer ID:**  
**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06827

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/7/23 14:10  | 4/7/23 17:02        |          | 1.015 | 8.07         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/7/23 14:10  | 4/7/23 17:02        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/7/23 14:10  | 4/7/23 17:02        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:52        |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:52        |          | 1.015 | Not Detected | mg/L       | 0.009135 | 0.05075  | U |
| * Arsenic, Dissolved                   | 4/7/23 11:45  | 4/7/23 13:52        |          | 1.015 | 0.00471      | mg/L       | 0.000112 | 0.000203 |   |
| * Barium, Dissolved                    | 4/7/23 11:45  | 4/7/23 13:52        |          | 1.015 | 0.259        | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/7/23 11:45  | 4/7/23 13:52        |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/7/23 11:45  | 4/7/23 13:52        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:52        |          | 1.015 | 0.000217     | mg/L       | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved                    | 4/7/23 11:45  | 4/7/23 13:52        |          | 1.015 | 0.0395       | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/7/23 11:45  | 4/7/23 13:52        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/7/23 11:45  | 4/7/23 13:52        |          | 1.015 | 1.17         | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/7/23 11:45  | 4/7/23 13:52        |          | 1.015 | 8.03         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:52        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:52        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/11/23 18:35 | 4/12/23 01:02       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/10/23 14:45 | 4/10/23 14:45       |          | 1     | Not Detected | mg/L as N  | 0.20     | 0.3      | U |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/18/23 10:05 | 4/18/23 11:02       |          | 1     | 135          | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/7/23 10:42  | 4/10/23 13:50       |          | 1     | 1370         | mg/L       |          | 147.1    |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/18/23 10:05 | 4/18/23 11:02       |          | 1     | 135          | mg CaCO3/L |          | 1        | A |
| * Carbonate Alkalinity, (calc.)        | 4/18/23 10:05 | 4/18/23 11:02       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      | A |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/12/23 12:31 | 4/12/23 12:31       |          | 1     | 4.99         | mg/L       | 1.00     | 2        |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-23V

**Location Code:** WMWBARAP

**Collected:** 4/4/23 11:55

**Customer ID:**

**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06827

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results | Units | MDL   | RL    | Q  |
|--|---------------|---------------------|----------|----|---------|-------|-------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: CES</b> |          |    |         |       |       |       |    |
| * Chloride                                   | 4/12/23 12:19 | 4/12/23 12:19       |          | 80 | 741     | mg/L  | 40.00 | 40    |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: CES</b> |          |    |         |       |       |       |    |
| * Fluoride                                   | 4/13/23 11:21 | 4/13/23 11:21       |          | 1  | 0.0682  | mg/L  | 0.06  | 0.125 | J  |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |         |       |       |       |    |
| * Sulfate                                    | 4/17/23 14:26 | 4/17/23 14:26       |          | 1  | 32.9    | mg/L  | 0.6   | 2     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: AWG</b> |          |    |         |       |       |       |    |
| Conductivity                                 | 4/4/23 11:52  | 4/4/23 11:52        |          |    | 2583.92 | uS/cm |       |       | FA |
| pH   | 4/4/23 11:52  | 4/4/23 11:52        |          |    | 6.73    | SU    |       |       | FA |
| Temperature                                  | 4/4/23 11:52  | 4/4/23 11:52        |          |    | 20.83   | C     |       |       | FA |
| Turbidity                                    | 4/4/23 11:52  | 4/4/23 11:52        |          |    | 2.6     | NTU   |       |       | FA |
| Sulfide                                      | 4/4/23 11:52  | 4/4/23 11:52        |          |    | 0       | mg/L  |       |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/4/23 11:55  
**Customer ID:**  
**Delivery Date:** 4/6/23 11:49

**Description:** Barry Ash Pond - MW-23V

**Laboratory ID Number:** BD06827

| Sample  | Analysis             | Units | MB         | MB       |       |        |        | Standard |                 | Rec   |             | Prec  | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|-------|-------------|-------|-------|
|         |                      |       |            | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec   | Limit       |       |       |
| BD06829 | Aluminum, Dissolved  | mg/L  | 0.0000353  | 0.0198   | 0.100 | 0.101  | 0.102  | 0.0999   | 0.0850 to 0.115 | 101   | 70.0 to 130 | 0.985 | 20.0  |
| BD06828 | Aluminum, Total      | mg/L  | 0.000609   | 0.0198   | 0.100 | 0.139  | 0.139  | 0.103    | 0.0850 to 0.115 | 99.8  | 70.0 to 130 | 0.00  | 20.0  |
| BD06829 | Antimony, Dissolved  | mg/L  | 0.000377   | 0.00100  | 0.100 | 0.0881 | 0.0905 | 0.0898   | 0.0850 to 0.115 | 88.1  | 70.0 to 130 | 2.69  | 20.0  |
| BD06828 | Antimony, Total      | mg/L  | 0.000237   | 0.00100  | 0.100 | 0.0875 | 0.0922 | 0.0867   | 0.0850 to 0.115 | 87.5  | 70.0 to 130 | 5.23  | 20.0  |
| BD06829 | Arsenic, Dissolved   | mg/L  | 0.0000113  | 0.000200 | 0.100 | 0.121  | 0.124  | 0.0990   | 0.0850 to 0.115 | 98.1  | 70.0 to 130 | 2.45  | 20.0  |
| BD06828 | Arsenic, Total       | mg/L  | 0.0000156  | 0.000200 | 0.100 | 0.0969 | 0.0996 | 0.0998   | 0.0850 to 0.115 | 95.8  | 70.0 to 130 | 2.75  | 20.0  |
| BD06829 | Barium, Dissolved    | mg/L  | 0.0000105  | 0.00100  | 0.100 | 0.210  | 0.210  | 0.0944   | 0.0850 to 0.115 | 93.0  | 70.0 to 130 | 0.00  | 20.0  |
| BD06828 | Barium, Total        | mg/L  | -0.0000063 | 0.00100  | 0.100 | 1.14   | 1.19   | 0.0923   | 0.0850 to 0.115 | 30.0  | 70.0 to 130 | 4.29  | 20.0  |
| BD06829 | Beryllium, Dissolved | mg/L  | 0.0000117  | 0.000880 | 0.100 | 0.0899 | 0.0944 | 0.0908   | 0.0850 to 0.115 | 89.9  | 70.0 to 130 | 4.88  | 20.0  |
| BD06828 | Beryllium, Total     | mg/L  | 0.0000000  | 0.000880 | 0.100 | 0.0921 | 0.0959 | 0.0944   | 0.0850 to 0.115 | 92.1  | 70.0 to 130 | 4.04  | 20.0  |
| BD06829 | Boron, Dissolved     | mg/L  | -0.000075  | 0.0650   | 1.00  | 1.01   | 1.06   | 1.00     | 0.850 to 1.15   | 96.4  | 70.0 to 130 | 4.83  | 20.0  |
| BD06828 | Boron, Total         | mg/L  | -0.000537  | 0.0650   | 1.00  | 1.35   | 1.34   | 1.02     | 0.850 to 1.15   | 106   | 70.0 to 130 | 0.743 | 20.0  |
| BD06829 | Cadmium, Dissolved   | mg/L  | 0.0000046  | 0.000147 | 0.100 | 0.0963 | 0.0981 | 0.0982   | 0.0850 to 0.115 | 96.3  | 70.0 to 130 | 1.85  | 20.0  |
| BD06828 | Cadmium, Total       | mg/L  | 0.0000043  | 0.000147 | 0.100 | 0.0895 | 0.0918 | 0.0962   | 0.0850 to 0.115 | 89.4  | 70.0 to 130 | 2.54  | 20.0  |
| BD06829 | Calcium, Dissolved   | mg/L  | -0.00493   | 0.152    | 5.00  | 14.7   | 14.6   | 4.94     | 4.25 to 5.75    | 92.0  | 70.0 to 130 | 0.683 | 20.0  |
| BD06828 | Calcium, Total       | mg/L  | -0.0178    | 0.152    | 5.00  | 85.0   | 86.4   | 5.00     | 4.25 to 5.75    | 36.0  | 70.0 to 130 | 1.63  | 20.0  |
| BD06827 | Chloride             | mg/L  | 0.0514     | 1.00     | 800   | 1580   | 1590   | 10.2     | 9.00 to 11.0    | 105   | 80.0 to 120 | 0.631 | 20.0  |
| BD06829 | Chromium, Dissolved  | mg/L  | -0.0000370 | 0.000440 | 0.100 | 0.0967 | 0.0995 | 0.0995   | 0.0850 to 0.115 | 96.7  | 70.0 to 130 | 2.85  | 20.0  |
| BD06828 | Chromium, Total      | mg/L  | -0.0000476 | 0.000440 | 0.100 | 0.0926 | 0.0929 | 0.0965   | 0.0850 to 0.115 | 92.4  | 70.0 to 130 | 0.323 | 20.0  |
| BD06829 | Cobalt, Dissolved    | mg/L  | -0.0000017 | 0.000147 | 0.100 | 0.101  | 0.104  | 0.101    | 0.0850 to 0.115 | 100   | 70.0 to 130 | 2.93  | 20.0  |
| BD06828 | Cobalt, Total        | mg/L  | 0.0000042  | 0.000147 | 0.100 | 0.219  | 0.220  | 0.0997   | 0.0850 to 0.115 | 89.0  | 70.0 to 130 | 0.456 | 20.0  |
| BD06828 | Fluoride             | mg/L  | -0.00644   | 0.125    | 2.50  | 2.78   | 2.79   | 2.62     | 2.25 to 2.75    | 107   | 80.0 to 120 | 0.359 | 20.0  |
| BD06829 | Iron, Dissolved      | mg/L  | -0.00183   | 0.0176   | 0.2   | 60.3   | 60.4   | 0.195    | 0.170 to 0.230  | -50.0 | 70.0 to 130 | 0.166 | 20.0  |
| BD06828 | Iron, Total          | mg/L  | 0.000416   | 0.0176   | 0.2   | 0.648  | 0.649  | 0.200    | 0.170 to 0.230  | 98.0  | 70.0 to 130 | 0.154 | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/4/23 11:55

**Customer ID:**

**Delivery Date:** 4/6/23 11:49

**Description:** Barry Ash Pond - MW-23V

**Laboratory ID Number:** BD06827

| Sample  | Analysis               | Units | MB         | MB       |       | Spike   | MS      | MSD     | Standard           |       | Rec         |       | Prec |
|---------|------------------------|-------|------------|----------|-------|---------|---------|---------|--------------------|-------|-------------|-------|------|
|         |                        |       |            | Limit    |       |         |         |         | Standard           | Limit | Rec         | Limit |      |
| BD06829 | Lead, Dissolved        | mg/L  | 0.0000118  | 0.000147 | 0.100 | 0.0948  | 0.0971  | 0.0971  | 0.0850 to 0.115    | 94.8  | 70.0 to 130 | 2.40  | 20.0 |
| BD06828 | Lead, Total            | mg/L  | 0.0000027  | 0.000147 | 0.100 | 0.0928  | 0.0958  | 0.0945  | 0.0850 to 0.115    | 92.8  | 70.0 to 130 | 3.18  | 20.0 |
| BD06829 | Lithium, Dissolved     | mg/L  | 0.000245   | 0.0154   | 0.200 | 0.199   | 0.200   | 0.195   | 0.170 to 0.230     | 99.5  | 70.0 to 130 | 0.501 | 20.0 |
| BD06828 | Lithium, Total         | mg/L  | -0.000701  | 0.0154   | 0.200 | 0.220   | 0.221   | 0.199   | 0.170 to 0.230     | 110   | 70.0 to 130 | 0.454 | 20.0 |
| BD06829 | Magnesium, Dissolved   | mg/L  | 0.000      | 0.0462   | 5.00  | 9.49    | 9.46    | 4.93    | 4.25 to 5.75       | 93.2  | 70.0 to 130 | 0.317 | 20.0 |
| BD06828 | Magnesium, Total       | mg/L  | -0.00548   | 0.0462   | 5.00  | 77.6    | 75.3    | 4.93    | 4.25 to 5.75       | 102   | 70.0 to 130 | 3.01  | 20.0 |
| BD06829 | Manganese, Dissolved   | mg/L  | 0.0000167  | 0.00033  | 0.100 | 0.378   | 0.382   | 0.101   | 0.0850 to 0.115    | 98.0  | 70.0 to 130 | 1.05  | 20.0 |
| BD06828 | Manganese, Total       | mg/L  | 0.000200   | 0.00033  | 0.100 | 4.77    | 4.92    | 0.0980  | 0.0850 to 0.115    | 70.0  | 70.0 to 130 | 3.10  | 20.0 |
| BD06828 | Mercury, Total by CVAA | mg/L  | 2.000E-05  | 0.000500 | 0.004 | 0.00397 | 0.00409 | 0.00403 | 0.00340 to 0.00460 | 99.2  | 70.0 to 130 | 2.98  | 20.0 |
| BD06829 | Molybdenum, Dissolved  | mg/L  | -0.000152  | 0.0100   | 0.2   | 0.194   | 0.196   | 0.195   | 0.170 to 0.230     | 97.0  | 70.0 to 130 | 1.03  | 20.0 |
| BD06828 | Molybdenum, Total      | mg/L  | -0.001     | 0.0100   | 0.2   | 0.202   | 0.201   | 0.201   | 0.170 to 0.230     | 101   | 70.0 to 130 | 0.496 | 20.0 |
| BD06829 | Potassium, Dissolved   | mg/L  | 0.00935    | 0.367    | 10.0  | 11.2    | 11.3    | 9.82    | 8.50 to 11.5       | 97.4  | 70.0 to 130 | 0.889 | 20.0 |
| BD06828 | Potassium, Total       | mg/L  | -0.00778   | 0.367    | 10.0  | 25.9    | 26.1    | 9.95    | 8.50 to 11.5       | 88.0  | 70.0 to 130 | 0.769 | 20.0 |
| BD06829 | Selenium, Dissolved    | mg/L  | 0.000102   | 0.00100  | 0.100 | 0.102   | 0.103   | 0.0997  | 0.0850 to 0.115    | 102   | 70.0 to 130 | 0.976 | 20.0 |
| BD06828 | Selenium, Total        | mg/L  | 0.0000454  | 0.00100  | 0.100 | 0.0951  | 0.0968  | 0.100   | 0.0850 to 0.115    | 95.1  | 70.0 to 130 | 1.77  | 20.0 |
| BD06829 | Silicon, Dissolved     | mg/L  | 0.000229   | 0.0440   | 1.00  | 8.70    | 8.71    | 0.997   | 0.850 to 1.15      | 96.0  | 70.0 to 130 | 0.115 | 20.0 |
| BD06828 | Silicon, Total         | mg/L  | -0.000048  | 0.0440   | 1.00  | 6.40    | 6.36    | 1.02    | 0.850 to 1.15      | 101   | 70.0 to 130 | 0.627 | 20.0 |
| BD06829 | Sodium, Dissolved      | mg/L  | 0.0149     | 0.0880   | 5.00  | 21.1    | 20.8    | 5.23    | 4.25 to 5.75       | 96.0  | 70.0 to 130 | 1.43  | 20.0 |
| BD06828 | Sodium, Total          | mg/L  | 0.000332   | 0.0880   | 5.00  | 761     | 761     | 4.87    | 4.25 to 5.75       | 120   | 70.0 to 130 | 0.00  | 20.0 |
| BD06835 | Sulfate                | mg/L  | -0.0671    | 2.0      | 20.0  | 22.3    | 22.4    | 19.9    | 18.0 to 22.0       | 96.9  | 80.0 to 120 | 0.447 | 20.0 |
| BD06829 | Thallium, Dissolved    | mg/L  | -0.0000001 | 0.000147 | 0.100 | 0.0977  | 0.0992  | 0.0992  | 0.0850 to 0.115    | 97.7  | 70.0 to 130 | 1.52  | 20.0 |
| BD06828 | Thallium, Total        | mg/L  | 0.0000054  | 0.000147 | 0.100 | 0.0959  | 0.0990  | 0.0978  | 0.0850 to 0.115    | 95.5  | 70.0 to 130 | 3.18  | 20.0 |
| BD06828 | Total Organic Carbon   | mg/L  | 0.108      | 1.00     | 10.0  | 11.0    | 10.6    | 23.5    |                    | 94.6  | 80.0 to 120 | 3.70  | 20.0 |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/4/23 11:55

**Customer ID:**

**Delivery Date:** 4/6/23 11:49

**Description:** Barry Ash Pond - MW-23V

**Laboratory ID Number:** BD06827

| Sample  | Analysis                  | Units      | MB   | MB Limit | Spike | MS   | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit   | Prec  | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|----------|----------------|-----|-------------|-------|------------|
| BD06839 | Alkalinity to pH 4.5      | mg CaCO3/L |      |          |       |      | 167              | 50.5     | 45.0 to 55.0   |     |             | 0.601 | 10.0       |
| BD06835 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.04 | 0.200    | 2.00  | 2.32 | 0.166            | 1.92     | 1.80 to 2.20   | 116 | 90.0 to 110 | 0.00  | 15.0       |
| BD06836 | Solids, Dissolved         | mg/L       | 1.00 | 25.0     |       |      | 222              | 51.0     | 40.0 to 60.0   |     |             | 1.36  | 10.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-17V

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 12:50  
**Customer ID:**  
**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06828

| Name                                | Prepared     | Analyzed      | Vio Spec            | DF    | Results                             | Units | MDL      | RL         | Q  |
|-------------------------------------|--------------|---------------|---------------------|-------|-------------------------------------|-------|----------|------------|----|
| <b>Analytical Method: EPA 200.7</b> |              |               | <b>Analyst: ABB</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |    |
| * Boron, Total                      | 4/7/23 14:10 | 4/11/23 11:39 |                     | 1.015 | 0.285                               | mg/L  | 0.030000 | 0.1015     |    |
| * Calcium, Total                    | 4/7/23 14:10 | 4/11/23 13:42 |                     | 101.5 | 83.2                                | mg/L  | 7.0035   | 40.6       | RA |
| * Iron, Total                       | 4/7/23 14:10 | 4/11/23 11:39 |                     | 1.015 | 0.452                               | mg/L  | 0.008120 | 0.0406     |    |
| * Lithium, Total                    | 4/7/23 14:10 | 4/11/23 11:39 |                     | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U  |
| * Magnesium, Total                  | 4/7/23 14:10 | 4/11/23 13:42 |                     | 101.5 | 72.5                                | mg/L  | 2.1315   | 40.6       | RA |
| * Molybdenum, Total                 | 4/7/23 14:10 | 4/11/23 11:39 |                     | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U  |
| * Silica, Total (calc.)             | 4/7/23 14:10 | 4/11/23 11:39 |                     | 1     | 11.5                                | mg/L  |          |            |    |
| * Silicon, Total                    | 4/7/23 14:10 | 4/11/23 11:39 |                     | 1.015 | 5.39                                | mg/L  | 0.02030  | 0.25375    |    |
| * Sodium, Total                     | 4/7/23 14:10 | 4/11/23 13:42 |                     | 101.5 | 755                                 | mg/L  | 4.060    | 40.6       |    |
| <b>Analytical Method: EPA 200.7</b> |              |               | <b>Analyst: ABB</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |    |
| * Boron, Dissolved                  | 4/7/23 11:45 | 4/12/23 11:36 |                     | 1.015 | 0.283                               | mg/L  | 0.030000 | 0.1015     |    |
| * Calcium, Dissolved                | 4/7/23 11:45 | 4/12/23 13:43 |                     | 101.5 | 81.8                                | mg/L  | 7.0035   | 40.6       |    |
| * Iron, Dissolved                   | 4/7/23 11:45 | 4/12/23 11:36 |                     | 1.015 | 0.301                               | mg/L  | 0.008120 | 0.0406     |    |
| * Lithium, Dissolved                | 4/7/23 11:45 | 4/12/23 11:36 |                     | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U  |
| * Magnesium, Dissolved              | 4/7/23 11:45 | 4/12/23 13:43 |                     | 101.5 | 72.7                                | mg/L  | 2.1315   | 40.6       |    |
| * Molybdenum, Dissolved             | 4/7/23 11:45 | 4/12/23 11:36 |                     | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U  |
| * Silica, Dissolved (calc.)         | 4/7/23 11:45 | 4/12/23 11:36 |                     | 1     | 11.4                                | mg/L  |          |            |    |
| * Silicon, Dissolved                | 4/7/23 11:45 | 4/12/23 11:36 |                     | 1.015 | 5.33                                | mg/L  | 0.02030  | 0.25375    |    |
| * Sodium, Dissolved                 | 4/7/23 11:45 | 4/12/23 13:43 |                     | 101.5 | 768                                 | mg/L  | 4.060    | 40.6       |    |
| <b>Analytical Method: EPA 200.8</b> |              |               | <b>Analyst: DLJ</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |    |
| * Antimony, Total                   | 4/7/23 14:10 | 4/7/23 17:05  |                     | 1.015 | Not Detected                        | mg/L  | 0.000710 | 0.001015   | U  |
| * Aluminum, Total                   | 4/7/23 14:10 | 4/7/23 17:05  |                     | 1.015 | 0.0392                              | mg/L  | 0.009135 | 0.05075    | J  |
| * Arsenic, Total                    | 4/7/23 14:10 | 4/7/23 17:05  |                     | 1.015 | 0.00113                             | mg/L  | 0.000112 | 0.000203   |    |
| * Barium, Total                     | 4/7/23 14:10 | 4/7/23 17:05  |                     | 1.015 | 1.11                                | mg/L  | 0.000508 | 0.001015   | RA |
| * Beryllium, Total                  | 4/7/23 14:10 | 4/7/23 17:05  |                     | 1.015 | Not Detected                        | mg/L  | 0.000406 | 0.001015   | U  |
| * Cadmium, Total                    | 4/7/23 14:10 | 4/7/23 17:05  |                     | 1.015 | 0.000114                            | mg/L  | 0.000068 | 0.000203   | J  |
| * Chromium, Total                   | 4/7/23 14:10 | 4/7/23 17:05  |                     | 1.015 | 0.000244                            | mg/L  | 0.000203 | 0.001015   | J  |
| * Cobalt, Total                     | 4/7/23 14:10 | 4/7/23 17:05  |                     | 1.015 | 0.130                               | mg/L  | 0.000068 | 0.000203   |    |
| * Lead, Total                       | 4/7/23 14:10 | 4/7/23 17:05  |                     | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U  |
| * Manganese, Total                  | 4/7/23 14:10 | 4/7/23 18:43  |                     | 5.075 | 4.70                                | mg/L  | 0.000761 | 0.005075   | RA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-17V

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 12:50  
**Customer ID:**  
**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06828

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/7/23 14:10  | 4/7/23 17:05        |          | 1.015 | 17.1         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/7/23 14:10  | 4/7/23 17:05        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/7/23 14:10  | 4/7/23 17:05        |          | 1.015 | 0.000362     | mg/L       | 0.000068 | 0.000203 |   |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:56        |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:56        |          | 1.015 | Not Detected | mg/L       | 0.009135 | 0.05075  | U |
| * Arsenic, Dissolved                   | 4/7/23 11:45  | 4/7/23 13:56        |          | 1.015 | 0.00111      | mg/L       | 0.000112 | 0.000203 |   |
| * Barium, Dissolved                    | 4/7/23 11:45  | 4/7/23 13:56        |          | 1.015 | 1.08         | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/7/23 11:45  | 4/7/23 13:56        |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/7/23 11:45  | 4/7/23 13:56        |          | 1.015 | 0.000118     | mg/L       | 0.000068 | 0.000203 | J |
| * Chromium, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:56        |          | 1.015 | Not Detected | mg/L       | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved                    | 4/7/23 11:45  | 4/7/23 13:56        |          | 1.015 | 0.132        | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/7/23 11:45  | 4/7/23 13:56        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/7/23 11:45  | 4/7/23 19:23        |          | 5.075 | 4.64         | mg/L       | 0.000761 | 0.005075 |   |
| * Potassium, Dissolved                 | 4/7/23 11:45  | 4/7/23 13:56        |          | 1.015 | 16.6         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:56        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/7/23 11:45  | 4/7/23 13:56        |          | 1.015 | 0.000370     | mg/L       | 0.000068 | 0.000203 |   |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/11/23 18:35 | 4/12/23 01:06       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/10/23 14:47 | 4/10/23 14:47       |          | 1     | Not Detected | mg/L as N  | 0.20     | 0.3      | U |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/18/23 10:05 | 4/18/23 11:02       |          | 1     | 202          | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/7/23 10:42  | 4/10/23 13:50       |          | 1     | 2690         | mg/L       |          | 312.5    |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/18/23 10:05 | 4/18/23 11:02       |          | 1     | 202          | mg CaCO3/L |          | 1        | A |
| * Carbonate Alkalinity, (calc.)        | 4/18/23 10:05 | 4/18/23 11:02       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      | A |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/12/23 12:46 | 4/12/23 12:46       |          | 1     | 1.54         | mg/L       | 1.00     | 2        | J |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-17V

**Location Code:** WMWBARAP

**Collected:** 4/4/23 12:50

**Customer ID:**

**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06828

| Name   | Prepared      | Analyzed            | Vio Spec | DF  | Results | Units | MDL   | RL    | Q  |
|--|---------------|---------------------|----------|-----|---------|-------|-------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: CES</b> |          |     |         |       |       |       |    |
| * Chloride                                   | 4/12/23 12:52 | 4/12/23 12:52       |          | 100 | 1540    | mg/L  | 50.00 | 50    |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: CES</b> |          |     |         |       |       |       |    |
| * Fluoride                                   | 4/13/23 11:22 | 4/13/23 11:22       |          | 1   | 0.108   | mg/L  | 0.06  | 0.125 | J  |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |     |         |       |       |       |    |
| * Sulfate                                    | 4/17/23 14:44 | 4/17/23 14:44       |          | 3   | 59.0    | mg/L  | 1.8   | 6     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: AWG</b> |          |     |         |       |       |       |    |
| Conductivity                                 | 4/4/23 12:47  | 4/4/23 12:47        |          |     | 5004.48 | uS/cm |       |       | FA |
| pH   | 4/4/23 12:47  | 4/4/23 12:47        |          |     | 6.48    | SU    |       |       | FA |
| Temperature                                  | 4/4/23 12:47  | 4/4/23 12:47        |          |     | 22.09   | C     |       |       | FA |
| Turbidity                                    | 4/4/23 12:47  | 4/4/23 12:47        |          |     | 3.38    | NTU   |       |       | FA |
| Sulfide                                      | 4/4/23 12:47  | 4/4/23 12:47        |          |     | 0       | mg/L  |       |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/4/23 12:50  
**Customer ID:**  
**Delivery Date:** 4/6/23 11:49

**Description:** Barry Ash Pond - MW-17V

**Laboratory ID Number:** BD06828

| Sample  | Analysis             | Units | MB         | MB       |       |        |        | Standard |                 | Rec   |             | Prec  | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|-------|-------------|-------|-------|
|         |                      |       |            | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec   | Limit       |       |       |
| BD06829 | Aluminum, Dissolved  | mg/L  | 0.0000353  | 0.0198   | 0.100 | 0.101  | 0.102  | 0.0999   | 0.0850 to 0.115 | 101   | 70.0 to 130 | 0.985 | 20.0  |
| BD06828 | Aluminum, Total      | mg/L  | 0.000609   | 0.0198   | 0.100 | 0.139  | 0.139  | 0.103    | 0.0850 to 0.115 | 99.8  | 70.0 to 130 | 0.00  | 20.0  |
| BD06829 | Antimony, Dissolved  | mg/L  | 0.000377   | 0.00100  | 0.100 | 0.0881 | 0.0905 | 0.0898   | 0.0850 to 0.115 | 88.1  | 70.0 to 130 | 2.69  | 20.0  |
| BD06828 | Antimony, Total      | mg/L  | 0.000237   | 0.00100  | 0.100 | 0.0875 | 0.0922 | 0.0867   | 0.0850 to 0.115 | 87.5  | 70.0 to 130 | 5.23  | 20.0  |
| BD06829 | Arsenic, Dissolved   | mg/L  | 0.0000113  | 0.000200 | 0.100 | 0.121  | 0.124  | 0.0990   | 0.0850 to 0.115 | 98.1  | 70.0 to 130 | 2.45  | 20.0  |
| BD06828 | Arsenic, Total       | mg/L  | 0.0000156  | 0.000200 | 0.100 | 0.0969 | 0.0996 | 0.0998   | 0.0850 to 0.115 | 95.8  | 70.0 to 130 | 2.75  | 20.0  |
| BD06829 | Barium, Dissolved    | mg/L  | 0.0000105  | 0.00100  | 0.100 | 0.210  | 0.210  | 0.0944   | 0.0850 to 0.115 | 93.0  | 70.0 to 130 | 0.00  | 20.0  |
| BD06828 | Barium, Total        | mg/L  | -0.0000063 | 0.00100  | 0.100 | 1.14   | 1.19   | 0.0923   | 0.0850 to 0.115 | 30.0  | 70.0 to 130 | 4.29  | 20.0  |
| BD06829 | Beryllium, Dissolved | mg/L  | 0.0000117  | 0.000880 | 0.100 | 0.0899 | 0.0944 | 0.0908   | 0.0850 to 0.115 | 89.9  | 70.0 to 130 | 4.88  | 20.0  |
| BD06828 | Beryllium, Total     | mg/L  | 0.0000000  | 0.000880 | 0.100 | 0.0921 | 0.0959 | 0.0944   | 0.0850 to 0.115 | 92.1  | 70.0 to 130 | 4.04  | 20.0  |
| BD06829 | Boron, Dissolved     | mg/L  | -0.000075  | 0.0650   | 1.00  | 1.01   | 1.06   | 1.00     | 0.850 to 1.15   | 96.4  | 70.0 to 130 | 4.83  | 20.0  |
| BD06828 | Boron, Total         | mg/L  | -0.000537  | 0.0650   | 1.00  | 1.35   | 1.34   | 1.02     | 0.850 to 1.15   | 106   | 70.0 to 130 | 0.743 | 20.0  |
| BD06829 | Cadmium, Dissolved   | mg/L  | 0.0000046  | 0.000147 | 0.100 | 0.0963 | 0.0981 | 0.0982   | 0.0850 to 0.115 | 96.3  | 70.0 to 130 | 1.85  | 20.0  |
| BD06828 | Cadmium, Total       | mg/L  | 0.0000043  | 0.000147 | 0.100 | 0.0895 | 0.0918 | 0.0962   | 0.0850 to 0.115 | 89.4  | 70.0 to 130 | 2.54  | 20.0  |
| BD06829 | Calcium, Dissolved   | mg/L  | -0.00493   | 0.152    | 5.00  | 14.7   | 14.6   | 4.94     | 4.25 to 5.75    | 92.0  | 70.0 to 130 | 0.683 | 20.0  |
| BD06828 | Calcium, Total       | mg/L  | -0.0178    | 0.152    | 5.00  | 85.0   | 86.4   | 5.00     | 4.25 to 5.75    | 36.0  | 70.0 to 130 | 1.63  | 20.0  |
| BD06837 | Chloride             | mg/L  | 0.0436     | 1.00     | 200   | 259    | 263    | 10.1     | 9.00 to 11.0    | 102   | 80.0 to 120 | 1.53  | 20.0  |
| BD06829 | Chromium, Dissolved  | mg/L  | -0.0000370 | 0.000440 | 0.100 | 0.0967 | 0.0995 | 0.0995   | 0.0850 to 0.115 | 96.7  | 70.0 to 130 | 2.85  | 20.0  |
| BD06828 | Chromium, Total      | mg/L  | -0.0000476 | 0.000440 | 0.100 | 0.0926 | 0.0929 | 0.0965   | 0.0850 to 0.115 | 92.4  | 70.0 to 130 | 0.323 | 20.0  |
| BD06829 | Cobalt, Dissolved    | mg/L  | -0.0000017 | 0.000147 | 0.100 | 0.101  | 0.104  | 0.101    | 0.0850 to 0.115 | 100   | 70.0 to 130 | 2.93  | 20.0  |
| BD06828 | Cobalt, Total        | mg/L  | 0.0000042  | 0.000147 | 0.100 | 0.219  | 0.220  | 0.0997   | 0.0850 to 0.115 | 89.0  | 70.0 to 130 | 0.456 | 20.0  |
| BD06828 | Fluoride             | mg/L  | -0.00644   | 0.125    | 2.50  | 2.78   | 2.79   | 2.62     | 2.25 to 2.75    | 107   | 80.0 to 120 | 0.359 | 20.0  |
| BD06829 | Iron, Dissolved      | mg/L  | -0.00183   | 0.0176   | 0.2   | 60.3   | 60.4   | 0.195    | 0.170 to 0.230  | -50.0 | 70.0 to 130 | 0.166 | 20.0  |
| BD06828 | Iron, Total          | mg/L  | 0.000416   | 0.0176   | 0.2   | 0.648  | 0.649  | 0.200    | 0.170 to 0.230  | 98.0  | 70.0 to 130 | 0.154 | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/4/23 12:50  
**Customer ID:**  
**Delivery Date:** 4/6/23 11:49

**Description:** Barry Ash Pond - MW-17V

**Laboratory ID Number:** BD06828

| Sample  | Analysis               | Units | MB         | MB       |       |         |         | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       |            | Limit    | Spike | MS      | MSD     | Standard | Limit              | Rec  | Limit       |       |       |
| BD06829 | Lead, Dissolved        | mg/L  | 0.0000118  | 0.000147 | 0.100 | 0.0948  | 0.0971  | 0.0971   | 0.0850 to 0.115    | 94.8 | 70.0 to 130 | 2.40  | 20.0  |
| BD06828 | Lead, Total            | mg/L  | 0.0000027  | 0.000147 | 0.100 | 0.0928  | 0.0958  | 0.0945   | 0.0850 to 0.115    | 92.8 | 70.0 to 130 | 3.18  | 20.0  |
| BD06829 | Lithium, Dissolved     | mg/L  | 0.000245   | 0.0154   | 0.200 | 0.199   | 0.200   | 0.195    | 0.170 to 0.230     | 99.5 | 70.0 to 130 | 0.501 | 20.0  |
| BD06828 | Lithium, Total         | mg/L  | -0.000701  | 0.0154   | 0.200 | 0.220   | 0.221   | 0.199    | 0.170 to 0.230     | 110  | 70.0 to 130 | 0.454 | 20.0  |
| BD06829 | Magnesium, Dissolved   | mg/L  | 0.000      | 0.0462   | 5.00  | 9.49    | 9.46    | 4.93     | 4.25 to 5.75       | 93.2 | 70.0 to 130 | 0.317 | 20.0  |
| BD06828 | Magnesium, Total       | mg/L  | -0.00548   | 0.0462   | 5.00  | 77.6    | 75.3    | 4.93     | 4.25 to 5.75       | 102  | 70.0 to 130 | 3.01  | 20.0  |
| BD06829 | Manganese, Dissolved   | mg/L  | 0.0000167  | 0.00033  | 0.100 | 0.378   | 0.382   | 0.101    | 0.0850 to 0.115    | 98.0 | 70.0 to 130 | 1.05  | 20.0  |
| BD06828 | Manganese, Total       | mg/L  | 0.000200   | 0.00033  | 0.100 | 4.77    | 4.92    | 0.0980   | 0.0850 to 0.115    | 70.0 | 70.0 to 130 | 3.10  | 20.0  |
| BD06828 | Mercury, Total by CVAA | mg/L  | 2.000E-05  | 0.000500 | 0.004 | 0.00397 | 0.00409 | 0.00403  | 0.00340 to 0.00460 | 99.2 | 70.0 to 130 | 2.98  | 20.0  |
| BD06829 | Molybdenum, Dissolved  | mg/L  | -0.000152  | 0.0100   | 0.2   | 0.194   | 0.196   | 0.195    | 0.170 to 0.230     | 97.0 | 70.0 to 130 | 1.03  | 20.0  |
| BD06828 | Molybdenum, Total      | mg/L  | -0.001     | 0.0100   | 0.2   | 0.202   | 0.201   | 0.201    | 0.170 to 0.230     | 101  | 70.0 to 130 | 0.496 | 20.0  |
| BD06829 | Potassium, Dissolved   | mg/L  | 0.00935    | 0.367    | 10.0  | 11.2    | 11.3    | 9.82     | 8.50 to 11.5       | 97.4 | 70.0 to 130 | 0.889 | 20.0  |
| BD06828 | Potassium, Total       | mg/L  | -0.00778   | 0.367    | 10.0  | 25.9    | 26.1    | 9.95     | 8.50 to 11.5       | 88.0 | 70.0 to 130 | 0.769 | 20.0  |
| BD06829 | Selenium, Dissolved    | mg/L  | 0.000102   | 0.00100  | 0.100 | 0.102   | 0.103   | 0.0997   | 0.0850 to 0.115    | 102  | 70.0 to 130 | 0.976 | 20.0  |
| BD06828 | Selenium, Total        | mg/L  | 0.0000454  | 0.00100  | 0.100 | 0.0951  | 0.0968  | 0.100    | 0.0850 to 0.115    | 95.1 | 70.0 to 130 | 1.77  | 20.0  |
| BD06829 | Silicon, Dissolved     | mg/L  | 0.000229   | 0.0440   | 1.00  | 8.70    | 8.71    | 0.997    | 0.850 to 1.15      | 96.0 | 70.0 to 130 | 0.115 | 20.0  |
| BD06828 | Silicon, Total         | mg/L  | -0.000048  | 0.0440   | 1.00  | 6.40    | 6.36    | 1.02     | 0.850 to 1.15      | 101  | 70.0 to 130 | 0.627 | 20.0  |
| BD06829 | Sodium, Dissolved      | mg/L  | 0.0149     | 0.0880   | 5.00  | 21.1    | 20.8    | 5.23     | 4.25 to 5.75       | 96.0 | 70.0 to 130 | 1.43  | 20.0  |
| BD06828 | Sodium, Total          | mg/L  | 0.000332   | 0.0880   | 5.00  | 761     | 761     | 4.87     | 4.25 to 5.75       | 120  | 70.0 to 130 | 0.00  | 20.0  |
| BD06835 | Sulfate                | mg/L  | -0.0671    | 2.0      | 20.0  | 22.3    | 22.4    | 19.9     | 18.0 to 22.0       | 96.9 | 80.0 to 120 | 0.447 | 20.0  |
| BD06829 | Thallium, Dissolved    | mg/L  | -0.0000001 | 0.000147 | 0.100 | 0.0977  | 0.0992  | 0.0992   | 0.0850 to 0.115    | 97.7 | 70.0 to 130 | 1.52  | 20.0  |
| BD06828 | Thallium, Total        | mg/L  | 0.0000054  | 0.000147 | 0.100 | 0.0959  | 0.0990  | 0.0978   | 0.0850 to 0.115    | 95.5 | 70.0 to 130 | 3.18  | 20.0  |
| BD06828 | Total Organic Carbon   | mg/L  | 0.108      | 1.00     | 10.0  | 11.0    | 10.6    | 23.5     |                    | 94.6 | 80.0 to 120 | 3.70  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/4/23 12:50

**Customer ID:**

**Delivery Date:** 4/6/23 11:49

**Description:** Barry Ash Pond - MW-17V

**Laboratory ID Number:** BD06828

| Sample  | Analysis                  | Units      | MB   | MB Limit | Spike | MS   | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit   | Prec  | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|----------|----------------|-----|-------------|-------|------------|
| BD06839 | Alkalinity to pH 4.5      | mg CaCO3/L |      |          |       |      | 167              | 50.5     | 45.0 to 55.0   |     |             | 0.601 | 10.0       |
| BD06835 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.04 | 0.200    | 2.00  | 2.32 | 0.166            | 1.92     | 1.80 to 2.20   | 116 | 90.0 to 110 | 0.00  | 15.0       |
| BD06836 | Solids, Dissolved         | mg/L       | 1.00 | 25.0     |       |      | 222              | 51.0     | 40.0 to 60.0   |     |             | 1.36  | 10.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

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

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 13:36  
**Customer ID:**  
**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06829

| Name                                | Prepared     | Analyzed      | Vio Spec            | DF    | Results                             | Units | MDL      | RL         | Q  |
|-------------------------------------|--------------|---------------|---------------------|-------|-------------------------------------|-------|----------|------------|----|
| <b>Analytical Method: EPA 200.7</b> |              |               | <b>Analyst: ABB</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |    |
| * Boron, Total                      | 4/7/23 14:10 | 4/11/23 11:55 |                     | 1.015 | 0.0474                              | mg/L  | 0.030000 | 0.1015     | J  |
| * Calcium, Total                    | 4/7/23 14:10 | 4/11/23 11:55 |                     | 1.015 | 10.4                                | mg/L  | 0.070035 | 0.406      |    |
| * Iron, Total                       | 4/7/23 14:10 | 4/11/23 13:51 |                     | 101.5 | 63.9                                | mg/L  | 0.8120   | 4.06       |    |
| * Lithium, Total                    | 4/7/23 14:10 | 4/11/23 11:55 |                     | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U  |
| * Magnesium, Total                  | 4/7/23 14:10 | 4/11/23 11:55 |                     | 1.015 | 4.68                                | mg/L  | 0.021315 | 0.406      |    |
| * Molybdenum, Total                 | 4/7/23 14:10 | 4/11/23 11:55 |                     | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U  |
| * Silica, Total (calc.)             | 4/7/23 14:10 | 4/11/23 11:55 |                     | 1     | 17.1                                | mg/L  |          |            |    |
| * Silicon, Total                    | 4/7/23 14:10 | 4/11/23 11:55 |                     | 1.015 | 7.99                                | mg/L  | 0.02030  | 0.25375    |    |
| * Sodium, Total                     | 4/7/23 14:10 | 4/11/23 11:55 |                     | 1.015 | 16.3                                | mg/L  | 0.04060  | 0.406      |    |
| <b>Analytical Method: EPA 200.7</b> |              |               | <b>Analyst: ABB</b> |       |                                     |       |          |            |    |
| * Boron, Dissolved                  | 4/7/23 11:45 | 4/12/23 11:40 |                     | 1.015 | 0.0458                              | mg/L  | 0.030000 | 0.1015     | J  |
| * Calcium, Dissolved                | 4/7/23 11:45 | 4/12/23 11:40 |                     | 1.015 | 10.1                                | mg/L  | 0.070035 | 0.406      |    |
| * Iron, Dissolved                   | 4/7/23 11:45 | 4/12/23 13:46 |                     | 101.5 | 60.4                                | mg/L  | 0.8120   | 4.06       | RA |
| * Lithium, Dissolved                | 4/7/23 11:45 | 4/12/23 11:40 |                     | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U  |
| * Magnesium, Dissolved              | 4/7/23 11:45 | 4/12/23 11:40 |                     | 1.015 | 4.83                                | mg/L  | 0.021315 | 0.406      |    |
| * Molybdenum, Dissolved             | 4/7/23 11:45 | 4/12/23 11:40 |                     | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U  |
| * Silica, Dissolved (calc.)         | 4/7/23 11:45 | 4/12/23 11:40 |                     | 1     | 16.6                                | mg/L  |          |            |    |
| * Silicon, Dissolved                | 4/7/23 11:45 | 4/12/23 11:40 |                     | 1.015 | 7.74                                | mg/L  | 0.02030  | 0.25375    |    |
| * Sodium, Dissolved                 | 4/7/23 11:45 | 4/12/23 12:46 |                     | 1.015 | 16.3                                | mg/L  | 0.04060  | 0.406      |    |
| <b>Analytical Method: EPA 200.8</b> |              |               | <b>Analyst: DLJ</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |    |
| * Antimony, Total                   | 4/7/23 14:10 | 4/7/23 17:27  |                     | 1.015 | Not Detected                        | mg/L  | 0.000710 | 0.001015   | U  |
| * Aluminum, Total                   | 4/7/23 14:10 | 4/7/23 17:27  |                     | 1.015 | 0.103                               | mg/L  | 0.009135 | 0.05075    |    |
| * Arsenic, Total                    | 4/7/23 14:10 | 4/7/23 17:27  |                     | 1.015 | 0.0192                              | mg/L  | 0.000112 | 0.000203   |    |
| * Barium, Total                     | 4/7/23 14:10 | 4/7/23 17:27  |                     | 1.015 | 0.125                               | mg/L  | 0.000508 | 0.001015   |    |
| * Beryllium, Total                  | 4/7/23 14:10 | 4/7/23 17:27  |                     | 1.015 | Not Detected                        | mg/L  | 0.000406 | 0.001015   | U  |
| * Cadmium, Total                    | 4/7/23 14:10 | 4/7/23 17:27  |                     | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U  |
| * Chromium, Total                   | 4/7/23 14:10 | 4/7/23 17:27  |                     | 1.015 | 0.000420                            | mg/L  | 0.000203 | 0.001015   | J  |
| * Cobalt, Total                     | 4/7/23 14:10 | 4/7/23 17:27  |                     | 1.015 | 0.000596                            | mg/L  | 0.000068 | 0.000203   |    |
| * Lead, Total                       | 4/7/23 14:10 | 4/7/23 17:27  |                     | 1.015 | 0.0000757                           | mg/L  | 0.000068 | 0.000203   | J  |
| * Manganese, Total                  | 4/7/23 14:10 | 4/7/23 17:27  |                     | 1.015 | 0.282                               | mg/L  | 0.000152 | 0.001015   |    |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

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

**Location Code:** WMWBARAP

**Collected:** 4/4/23 13:36

**Customer ID:**

**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06829

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/7/23 14:10  | 4/7/23 17:27        |          | 1.015 | 1.54         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/7/23 14:10  | 4/7/23 17:27        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/7/23 14:10  | 4/7/23 17:27        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:00        |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:00        |          | 1.015 | Not Detected | mg/L       | 0.009135 | 0.05075  | U |
| * Arsenic, Dissolved                   | 4/7/23 11:45  | 4/7/23 14:00        |          | 1.015 | 0.0229       | mg/L       | 0.000112 | 0.000203 |   |
| * Barium, Dissolved                    | 4/7/23 11:45  | 4/7/23 14:00        |          | 1.015 | 0.117        | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/7/23 11:45  | 4/7/23 14:00        |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/7/23 11:45  | 4/7/23 14:00        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:00        |          | 1.015 | Not Detected | mg/L       | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved                    | 4/7/23 11:45  | 4/7/23 14:00        |          | 1.015 | 0.000766     | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/7/23 11:45  | 4/7/23 14:00        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/7/23 11:45  | 4/7/23 14:00        |          | 1.015 | 0.280        | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/7/23 11:45  | 4/7/23 14:00        |          | 1.015 | 1.46         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:00        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:00        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/11/23 18:35 | 4/12/23 01:26       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/10/23 14:49 | 4/10/23 14:49       |          | 1     | Not Detected | mg/L as N  | 0.20     | 0.3      | U |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/18/23 10:05 | 4/18/23 11:02       |          | 1     | 103          | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/7/23 10:42  | 4/10/23 13:50       |          | 1     | 171          | mg/L       |          | 25       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/18/23 10:05 | 4/18/23 11:02       |          | 1     | 103          | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 4/18/23 10:05 | 4/18/23 11:02       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/12/23 14:01 | 4/12/23 14:01       |          | 1     | 4.50         | mg/L       | 1.00     | 2        |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

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

**Location Code:** WMWBARAP

**Collected:** 4/4/23 13:36

**Customer ID:**

**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06829

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Chloride                                   | 4/12/23 12:39 | 4/12/23 12:39       |          | 1  | 17.6    | mg/L  | 0.50 | 0.5   |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Fluoride                                   | 4/13/23 11:35 | 4/13/23 11:35       |          | 1  | 0.176   | mg/L  | 0.06 | 0.125 |    |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |         |       |      |       |    |
| * Sulfate                                    | 4/17/23 14:28 | 4/17/23 14:28       |          | 1  | 17.2    | mg/L  | 0.6  | 2     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: AWG</b> |          |    |         |       |      |       |    |
| Conductivity                                 | 4/4/23 13:34  | 4/4/23 13:34        |          |    | 331.33  | uS/cm |      |       | FA |
| pH   | 4/4/23 13:34  | 4/4/23 13:34        |          |    | 6.25    | SU    |      |       | FA |
| Temperature                                  | 4/4/23 13:34  | 4/4/23 13:34        |          |    | 22.18   | C     |      |       | FA |
| Turbidity                                    | 4/4/23 13:34  | 4/4/23 13:34        |          |    | 8.7     | NTU   |      |       | FA |
| Sulfide                                      | 4/4/23 13:34  | 4/4/23 13:34        |          |    | 0       | mg/L  |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/4/23 13:36  
**Customer ID:**  
**Delivery Date:** 4/6/23 11:49

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

**Laboratory ID Number:** BD06829

| Sample  | Analysis             | Units | MB         | MB       |       |        |        | Standard |                 | Rec   |             | Prec  | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|-------|-------------|-------|-------|
|         |                      |       |            | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec   | Limit       |       |       |
| BD06829 | Aluminum, Dissolved  | mg/L  | 0.0000353  | 0.0198   | 0.100 | 0.101  | 0.102  | 0.0999   | 0.0850 to 0.115 | 101   | 70.0 to 130 | 0.985 | 20.0  |
| BD06838 | Aluminum, Total      | mg/L  | 0.000609   | 0.0198   | 0.100 | 0.155  | 0.156  | 0.103    | 0.0850 to 0.115 | 111   | 70.0 to 130 | 0.643 | 20.0  |
| BD06829 | Antimony, Dissolved  | mg/L  | 0.000377   | 0.00100  | 0.100 | 0.0881 | 0.0905 | 0.0898   | 0.0850 to 0.115 | 88.1  | 70.0 to 130 | 2.69  | 20.0  |
| BD06838 | Antimony, Total      | mg/L  | 0.000237   | 0.00100  | 0.100 | 0.0909 | 0.0928 | 0.0867   | 0.0850 to 0.115 | 90.9  | 70.0 to 130 | 2.07  | 20.0  |
| BD06829 | Arsenic, Dissolved   | mg/L  | 0.0000113  | 0.000200 | 0.100 | 0.121  | 0.124  | 0.0990   | 0.0850 to 0.115 | 98.1  | 70.0 to 130 | 2.45  | 20.0  |
| BD06838 | Arsenic, Total       | mg/L  | 0.0000156  | 0.000200 | 0.100 | 0.0974 | 0.0996 | 0.0998   | 0.0850 to 0.115 | 96.5  | 70.0 to 130 | 2.23  | 20.0  |
| BD06829 | Barium, Dissolved    | mg/L  | 0.0000105  | 0.00100  | 0.100 | 0.210  | 0.210  | 0.0944   | 0.0850 to 0.115 | 93.0  | 70.0 to 130 | 0.00  | 20.0  |
| BD06838 | Barium, Total        | mg/L  | -0.0000063 | 0.00100  | 0.100 | 0.117  | 0.116  | 0.0923   | 0.0850 to 0.115 | 96.3  | 70.0 to 130 | 0.858 | 20.0  |
| BD06829 | Beryllium, Dissolved | mg/L  | 0.0000117  | 0.000880 | 0.100 | 0.0899 | 0.0944 | 0.0908   | 0.0850 to 0.115 | 89.9  | 70.0 to 130 | 4.88  | 20.0  |
| BD06838 | Beryllium, Total     | mg/L  | 0.0000000  | 0.000880 | 0.100 | 0.0961 | 0.0991 | 0.0944   | 0.0850 to 0.115 | 96.1  | 70.0 to 130 | 3.07  | 20.0  |
| BD06829 | Boron, Dissolved     | mg/L  | -0.000075  | 0.0650   | 1.00  | 1.01   | 1.06   | 1.00     | 0.850 to 1.15   | 96.4  | 70.0 to 130 | 4.83  | 20.0  |
| BD06838 | Boron, Total         | mg/L  | -0.000537  | 0.0650   | 1.00  | 1.06   | 1.07   | 1.02     | 0.850 to 1.15   | 102   | 70.0 to 130 | 0.939 | 20.0  |
| BD06829 | Cadmium, Dissolved   | mg/L  | 0.0000046  | 0.000147 | 0.100 | 0.0963 | 0.0981 | 0.0982   | 0.0850 to 0.115 | 96.3  | 70.0 to 130 | 1.85  | 20.0  |
| BD06838 | Cadmium, Total       | mg/L  | 0.0000043  | 0.000147 | 0.100 | 0.0946 | 0.0954 | 0.0962   | 0.0850 to 0.115 | 94.6  | 70.0 to 130 | 0.842 | 20.0  |
| BD06829 | Calcium, Dissolved   | mg/L  | -0.00493   | 0.152    | 5.00  | 14.7   | 14.6   | 4.94     | 4.25 to 5.75    | 92.0  | 70.0 to 130 | 0.683 | 20.0  |
| BD06838 | Calcium, Total       | mg/L  | -0.0178    | 0.152    | 5.00  | 9.85   | 10.1   | 5.00     | 4.25 to 5.75    | 99.2  | 70.0 to 130 | 2.51  | 20.0  |
| BD06837 | Chloride             | mg/L  | 0.0436     | 1.00     | 200   | 259    | 263    | 10.1     | 9.00 to 11.0    | 102   | 80.0 to 120 | 1.53  | 20.0  |
| BD06829 | Chromium, Dissolved  | mg/L  | -0.0000370 | 0.000440 | 0.100 | 0.0967 | 0.0995 | 0.0995   | 0.0850 to 0.115 | 96.7  | 70.0 to 130 | 2.85  | 20.0  |
| BD06838 | Chromium, Total      | mg/L  | -0.0000476 | 0.000440 | 0.100 | 0.0986 | 0.0969 | 0.0965   | 0.0850 to 0.115 | 98.1  | 70.0 to 130 | 1.74  | 20.0  |
| BD06829 | Cobalt, Dissolved    | mg/L  | -0.0000017 | 0.000147 | 0.100 | 0.101  | 0.104  | 0.101    | 0.0850 to 0.115 | 100   | 70.0 to 130 | 2.93  | 20.0  |
| BD06838 | Cobalt, Total        | mg/L  | 0.0000042  | 0.000147 | 0.100 | 0.101  | 0.0985 | 0.0997   | 0.0850 to 0.115 | 101   | 70.0 to 130 | 2.51  | 20.0  |
| BD06838 | Fluoride             | mg/L  | -0.00248   | 0.125    | 2.50  | 2.72   | 2.76   | 2.59     | 2.25 to 2.75    | 106   | 80.0 to 120 | 1.46  | 20.0  |
| BD06829 | Iron, Dissolved      | mg/L  | -0.00183   | 0.0176   | 0.2   | 60.3   | 60.4   | 0.195    | 0.170 to 0.230  | -50.0 | 70.0 to 130 | 0.166 | 20.0  |
| BD06838 | Iron, Total          | mg/L  | 0.000416   | 0.0176   | 0.2   | 14.9   | 14.1   | 0.200    | 0.170 to 0.230  | 450   | 70.0 to 130 | 5.52  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/4/23 13:36  
**Customer ID:**  
**Delivery Date:** 4/6/23 11:49

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

**Laboratory ID Number:** BD06829

| Sample  | Analysis               | Units | MB         |          | Spike | MS      | MSD    | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|--------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB         | Limit    |       |         |        | Standard | Limit              | Rec  | Limit       |       |       |
| BD06829 | Lead, Dissolved        | mg/L  | 0.0000118  | 0.000147 | 0.100 | 0.0948  | 0.0971 | 0.0971   | 0.0850 to 0.115    | 94.8 | 70.0 to 130 | 2.40  | 20.0  |
| BD06838 | Lead, Total            | mg/L  | 0.0000027  | 0.000147 | 0.100 | 0.0958  | 0.0961 | 0.0945   | 0.0850 to 0.115    | 95.8 | 70.0 to 130 | 0.313 | 20.0  |
| BD06829 | Lithium, Dissolved     | mg/L  | 0.000245   | 0.0154   | 0.200 | 0.199   | 0.200  | 0.195    | 0.170 to 0.230     | 99.5 | 70.0 to 130 | 0.501 | 20.0  |
| BD06838 | Lithium, Total         | mg/L  | -0.000701  | 0.0154   | 0.200 | 0.204   | 0.201  | 0.199    | 0.170 to 0.230     | 102  | 70.0 to 130 | 1.48  | 20.0  |
| BD06829 | Magnesium, Dissolved   | mg/L  | 0.000      | 0.0462   | 5.00  | 9.49    | 9.46   | 4.93     | 4.25 to 5.75       | 93.2 | 70.0 to 130 | 0.317 | 20.0  |
| BD06838 | Magnesium, Total       | mg/L  | -0.00548   | 0.0462   | 5.00  | 6.45    | 6.43   | 4.93     | 4.25 to 5.75       | 99.8 | 70.0 to 130 | 0.311 | 20.0  |
| BD06829 | Manganese, Dissolved   | mg/L  | 0.0000167  | 0.00033  | 0.100 | 0.378   | 0.382  | 0.101    | 0.0850 to 0.115    | 98.0 | 70.0 to 130 | 1.05  | 20.0  |
| BD06838 | Manganese, Total       | mg/L  | 0.000200   | 0.00033  | 0.100 | 0.340   | 0.329  | 0.0980   | 0.0850 to 0.115    | 108  | 70.0 to 130 | 3.29  | 20.0  |
| BD06838 | Mercury, Total by CVAA | mg/L  | 2.000E-05  | 0.000500 | 0.004 | 0.00399 | 0.004  | 0.00403  | 0.00340 to 0.00460 | 99.8 | 70.0 to 130 | 0.250 | 20.0  |
| BD06829 | Molybdenum, Dissolved  | mg/L  | -0.000152  | 0.0100   | 0.2   | 0.194   | 0.196  | 0.195    | 0.170 to 0.230     | 97.0 | 70.0 to 130 | 1.03  | 20.0  |
| BD06838 | Molybdenum, Total      | mg/L  | -0.001     | 0.0100   | 0.2   | 0.200   | 0.201  | 0.201    | 0.170 to 0.230     | 100  | 70.0 to 130 | 0.499 | 20.0  |
| BD06829 | Potassium, Dissolved   | mg/L  | 0.00935    | 0.367    | 10.0  | 11.2    | 11.3   | 9.82     | 8.50 to 11.5       | 97.4 | 70.0 to 130 | 0.889 | 20.0  |
| BD06838 | Potassium, Total       | mg/L  | -0.00778   | 0.367    | 10.0  | 10.4    | 10.5   | 9.95     | 8.50 to 11.5       | 100  | 70.0 to 130 | 0.957 | 20.0  |
| BD06829 | Selenium, Dissolved    | mg/L  | 0.000102   | 0.00100  | 0.100 | 0.102   | 0.103  | 0.0997   | 0.0850 to 0.115    | 102  | 70.0 to 130 | 0.976 | 20.0  |
| BD06838 | Selenium, Total        | mg/L  | 0.0000454  | 0.00100  | 0.100 | 0.0988  | 0.0998 | 0.100    | 0.0850 to 0.115    | 98.8 | 70.0 to 130 | 1.01  | 20.0  |
| BD06829 | Silicon, Dissolved     | mg/L  | 0.000229   | 0.0440   | 1.00  | 8.70    | 8.71   | 0.997    | 0.850 to 1.15      | 96.0 | 70.0 to 130 | 0.115 | 20.0  |
| BD06838 | Silicon, Total         | mg/L  | -0.000048  | 0.0440   | 1.00  | 5.47    | 5.48   | 1.02     | 0.850 to 1.15      | 107  | 70.0 to 130 | 0.183 | 20.0  |
| BD06829 | Sodium, Dissolved      | mg/L  | 0.0149     | 0.0880   | 5.00  | 21.1    | 20.8   | 5.23     | 4.25 to 5.75       | 96.0 | 70.0 to 130 | 1.43  | 20.0  |
| BD06838 | Sodium, Total          | mg/L  | 0.000332   | 0.0880   | 5.00  | 14.7    | 14.4   | 4.87     | 4.25 to 5.75       | 97.6 | 70.0 to 130 | 2.06  | 20.0  |
| BD06835 | Sulfate                | mg/L  | -0.0671    | 2.0      | 20.0  | 22.3    | 22.4   | 19.9     | 18.0 to 22.0       | 96.9 | 80.0 to 120 | 0.447 | 20.0  |
| BD06829 | Thallium, Dissolved    | mg/L  | -0.0000001 | 0.000147 | 0.100 | 0.0977  | 0.0992 | 0.0992   | 0.0850 to 0.115    | 97.7 | 70.0 to 130 | 1.52  | 20.0  |
| BD06838 | Thallium, Total        | mg/L  | 0.0000054  | 0.000147 | 0.100 | 0.0974  | 0.0989 | 0.0978   | 0.0850 to 0.115    | 97.4 | 70.0 to 130 | 1.53  | 20.0  |
| BD06838 | Total Organic Carbon   | mg/L  | 0.0766     | 1.00     | 10.0  | 12.5    | 12.5   | 24.8     |                    | 99.2 | 80.0 to 120 | 0.00  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/4/23 13:36

**Customer ID:**

**Delivery Date:** 4/6/23 11:49

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

**Laboratory ID Number:** BD06829

| Sample  | Analysis                  | Units      | MB   | MB<br>Limit | Spike | MS   | Sample<br>Duplicate | Standard | Standard<br>Limit | Rec | Rec<br>Limit | Prec  | Prec<br>Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------|-------------------|-----|--------------|-------|---------------|
| BD06839 | Alkalinity to pH 4.5      | mg CaCO3/L |      |             |       |      | 167                 | 50.5     | 45.0 to 55.0      |     |              | 0.601 | 10.0          |
| BD06835 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.04 | 0.200       | 2.00  | 2.32 | 0.166               | 1.92     | 1.80 to 2.20      | 116 | 90.0 to 110  | 0.00  | 15.0          |
| BD06836 | Solids, Dissolved         | mg/L       | 1.00 | 25.0        |       |      | 222                 | 51.0     | 40.0 to 60.0      |     |              | 1.36  | 10.0          |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-14V

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 15:05  
**Customer ID:**  
**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06830

| Name                                | Prepared     | Analyzed      | Vio Spec            | DF    | Results      | Units                               | MDL      | RL         | Q |
|-------------------------------------|--------------|---------------|---------------------|-------|--------------|-------------------------------------|----------|------------|---|
| <b>Analytical Method: EPA 200.7</b> |              |               | <b>Analyst: ABB</b> |       |              | <b>Preparation Method: EPA 1638</b> |          |            |   |
| * Boron, Total                      | 4/7/23 14:10 | 4/11/23 11:58 |                     | 1.015 | 0.390        | mg/L                                | 0.030000 | 0.1015     |   |
| * Calcium, Total                    | 4/7/23 14:10 | 4/11/23 11:58 |                     | 1.015 | 5.34         | mg/L                                | 0.070035 | 0.406      |   |
| * Iron, Total                       | 4/7/23 14:10 | 4/11/23 14:00 |                     | 10.15 | 20.8         | mg/L                                | 0.08120  | 0.406      |   |
| * Lithium, Total                    | 4/7/23 14:10 | 4/11/23 11:58 |                     | 1.015 | Not Detected | mg/L                                | 0.007105 | 0.01999956 | U |
| * Magnesium, Total                  | 4/7/23 14:10 | 4/11/23 11:58 |                     | 1.015 | 2.85         | mg/L                                | 0.021315 | 0.406      |   |
| * Molybdenum, Total                 | 4/7/23 14:10 | 4/11/23 11:58 |                     | 1.015 | Not Detected | mg/L                                | 0.005075 | 0.01015    | U |
| * Silica, Total (calc.)             | 4/7/23 14:10 | 4/11/23 11:58 |                     | 1     | 14.3         | mg/L                                |          |            |   |
| * Silicon, Total                    | 4/7/23 14:10 | 4/11/23 11:58 |                     | 1.015 | 6.66         | mg/L                                | 0.02030  | 0.25375    |   |
| * Sodium, Total                     | 4/7/23 14:10 | 4/11/23 14:00 |                     | 10.15 | 169          | mg/L                                | 0.4060   | 4.06       |   |
| <b>Analytical Method: EPA 200.7</b> |              |               | <b>Analyst: ABB</b> |       |              |                                     |          |            |   |
| * Boron, Dissolved                  | 4/7/23 11:45 | 4/12/23 11:55 |                     | 1.015 | 0.387        | mg/L                                | 0.030000 | 0.1015     |   |
| * Calcium, Dissolved                | 4/7/23 11:45 | 4/12/23 11:55 |                     | 1.015 | 5.38         | mg/L                                | 0.070035 | 0.406      |   |
| * Iron, Dissolved                   | 4/7/23 11:45 | 4/12/23 14:02 |                     | 10.15 | 20.7         | mg/L                                | 0.08120  | 0.406      |   |
| * Lithium, Dissolved                | 4/7/23 11:45 | 4/12/23 11:55 |                     | 1.015 | Not Detected | mg/L                                | 0.007105 | 0.01999956 | U |
| * Magnesium, Dissolved              | 4/7/23 11:45 | 4/12/23 11:55 |                     | 1.015 | 2.89         | mg/L                                | 0.021315 | 0.406      |   |
| * Molybdenum, Dissolved             | 4/7/23 11:45 | 4/12/23 11:55 |                     | 1.015 | Not Detected | mg/L                                | 0.005075 | 0.01015    | U |
| * Silica, Dissolved (calc.)         | 4/7/23 11:45 | 4/12/23 11:55 |                     | 1     | 14.0         | mg/L                                |          |            |   |
| * Silicon, Dissolved                | 4/7/23 11:45 | 4/12/23 11:55 |                     | 1.015 | 6.55         | mg/L                                | 0.02030  | 0.25375    |   |
| * Sodium, Dissolved                 | 4/7/23 11:45 | 4/12/23 14:02 |                     | 10.15 | 170          | mg/L                                | 0.4060   | 4.06       |   |
| <b>Analytical Method: EPA 200.8</b> |              |               | <b>Analyst: DLJ</b> |       |              | <b>Preparation Method: EPA 1638</b> |          |            |   |
| * Antimony, Total                   | 4/7/23 14:10 | 4/7/23 17:31  |                     | 1.015 | Not Detected | mg/L                                | 0.000710 | 0.001015   | U |
| * Aluminum, Total                   | 4/7/23 14:10 | 4/7/23 17:31  |                     | 1.015 | 0.0188       | mg/L                                | 0.009135 | 0.05075    | J |
| * Arsenic, Total                    | 4/7/23 14:10 | 4/7/23 17:31  |                     | 1.015 | 0.00501      | mg/L                                | 0.000112 | 0.000203   |   |
| * Barium, Total                     | 4/7/23 14:10 | 4/7/23 17:31  |                     | 1.015 | 0.0645       | mg/L                                | 0.000508 | 0.001015   |   |
| * Beryllium, Total                  | 4/7/23 14:10 | 4/7/23 17:31  |                     | 1.015 | Not Detected | mg/L                                | 0.000406 | 0.001015   | U |
| * Cadmium, Total                    | 4/7/23 14:10 | 4/7/23 17:31  |                     | 1.015 | Not Detected | mg/L                                | 0.000068 | 0.000203   | U |
| * Chromium, Total                   | 4/7/23 14:10 | 4/7/23 17:31  |                     | 1.015 | 0.000490     | mg/L                                | 0.000203 | 0.001015   | J |
| * Cobalt, Total                     | 4/7/23 14:10 | 4/7/23 17:31  |                     | 1.015 | 0.00396      | mg/L                                | 0.000068 | 0.000203   |   |
| * Lead, Total                       | 4/7/23 14:10 | 4/7/23 17:31  |                     | 1.015 | Not Detected | mg/L                                | 0.000068 | 0.000203   | U |
| * Manganese, Total                  | 4/7/23 14:10 | 4/7/23 17:31  |                     | 1.015 | 0.281        | mg/L                                | 0.000152 | 0.001015   |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-14V

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 15:05  
**Customer ID:**  
**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06830

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/7/23 14:10  | 4/7/23 17:31        |          | 1.015 | 2.65         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/7/23 14:10  | 4/7/23 17:31        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/7/23 14:10  | 4/7/23 17:31        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:21        |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:21        |          | 1.015 | Not Detected | mg/L       | 0.009135 | 0.05075  | U |
| * Arsenic, Dissolved                   | 4/7/23 11:45  | 4/7/23 14:21        |          | 1.015 | 0.00514      | mg/L       | 0.000112 | 0.000203 |   |
| * Barium, Dissolved                    | 4/7/23 11:45  | 4/7/23 14:21        |          | 1.015 | 0.0623       | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/7/23 11:45  | 4/7/23 14:21        |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/7/23 11:45  | 4/7/23 14:21        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:21        |          | 1.015 | 0.000422     | mg/L       | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved                    | 4/7/23 11:45  | 4/7/23 14:21        |          | 1.015 | 0.00407      | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/7/23 11:45  | 4/7/23 14:21        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/7/23 11:45  | 4/7/23 14:21        |          | 1.015 | 0.280        | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/7/23 11:45  | 4/7/23 14:21        |          | 1.015 | 2.55         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:21        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:21        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/11/23 18:35 | 4/12/23 01:30       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/10/23 14:51 | 4/10/23 14:51       |          | 1     | Not Detected | mg/L as N  | 0.20     | 0.3      | U |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/18/23 10:05 | 4/18/23 11:02       |          | 1     | 159          | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/7/23 10:42  | 4/10/23 13:50       |          | 1     | 464          | mg/L       |          | 50       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/18/23 10:05 | 4/18/23 11:02       |          | 1     | 159          | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 4/18/23 10:05 | 4/18/23 11:02       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/12/23 14:18 | 4/12/23 14:18       |          | 1     | 4.24         | mg/L       | 1.00     | 2        |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-14V

**Location Code:** WMWBARAP

**Collected:** 4/4/23 15:05

**Customer ID:**

**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06830

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results | Units | MDL   | RL    | Q  |
|--|---------------|---------------------|----------|----|---------|-------|-------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: CES</b> |          |    |         |       |       |       |    |
| * Chloride                                   | 4/12/23 12:53 | 4/12/23 12:53       |          | 40 | 174     | mg/L  | 20.00 | 20    |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: CES</b> |          |    |         |       |       |       |    |
| * Fluoride                                   | 4/13/23 11:50 | 4/13/23 11:50       |          | 1  | 0.302   | mg/L  | 0.06  | 0.125 |    |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |         |       |       |       |    |
| * Sulfate                                    | 4/17/23 14:29 | 4/17/23 14:29       |          | 1  | 11.7    | mg/L  | 0.6   | 2     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: AWG</b> |          |    |         |       |       |       |    |
| Conductivity                                 | 4/4/23 15:02  | 4/4/23 15:02        |          |    | 912.46  | uS/cm |       |       | FA |
| pH   | 4/4/23 15:02  | 4/4/23 15:02        |          |    | 6.80    | SU    |       |       | FA |
| Temperature                                  | 4/4/23 15:02  | 4/4/23 15:02        |          |    | 22.32   | C     |       |       | FA |
| Turbidity                                    | 4/4/23 15:02  | 4/4/23 15:02        |          |    | 3.19    | NTU   |       |       | FA |
| Sulfide                                      | 4/4/23 15:02  | 4/4/23 15:02        |          |    | 0       | mg/L  |       |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/4/23 15:05  
**Customer ID:**  
**Delivery Date:** 4/6/23 11:49

**Description:** Barry Ash Pond - MW-14V

**Laboratory ID Number:** BD06830

| Sample  | Analysis             | Units | MB         | MB       |       |        |        | Standard |                 | Rec  |             |       | Prec |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|------|
|         |                      |       |            | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec  | Limit       | Prec  |      |
| BD06839 | Aluminum, Dissolved  | mg/L  | 0.0000353  | 0.0198   | 0.100 | 0.106  | 0.107  | 0.0999   | 0.0850 to 0.115 | 106  | 70.0 to 130 | 0.939 | 20.0 |
| BD06838 | Aluminum, Total      | mg/L  | 0.000609   | 0.0198   | 0.100 | 0.155  | 0.156  | 0.103    | 0.0850 to 0.115 | 111  | 70.0 to 130 | 0.643 | 20.0 |
| BD06839 | Antimony, Dissolved  | mg/L  | 0.000377   | 0.00100  | 0.100 | 0.0917 | 0.0904 | 0.0898   | 0.0850 to 0.115 | 91.7 | 70.0 to 130 | 1.43  | 20.0 |
| BD06838 | Antimony, Total      | mg/L  | 0.000237   | 0.00100  | 0.100 | 0.0909 | 0.0928 | 0.0867   | 0.0850 to 0.115 | 90.9 | 70.0 to 130 | 2.07  | 20.0 |
| BD06839 | Arsenic, Dissolved   | mg/L  | 0.0000113  | 0.000200 | 0.100 | 0.116  | 0.117  | 0.0990   | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 0.858 | 20.0 |
| BD06838 | Arsenic, Total       | mg/L  | 0.0000156  | 0.000200 | 0.100 | 0.0974 | 0.0996 | 0.0998   | 0.0850 to 0.115 | 96.5 | 70.0 to 130 | 2.23  | 20.0 |
| BD06839 | Barium, Dissolved    | mg/L  | 0.0000105  | 0.00100  | 0.100 | 0.149  | 0.147  | 0.0944   | 0.0850 to 0.115 | 92.7 | 70.0 to 130 | 1.35  | 20.0 |
| BD06838 | Barium, Total        | mg/L  | -0.0000063 | 0.00100  | 0.100 | 0.117  | 0.116  | 0.0923   | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 0.858 | 20.0 |
| BD06839 | Beryllium, Dissolved | mg/L  | 0.0000117  | 0.000880 | 0.100 | 0.0966 | 0.0920 | 0.0908   | 0.0850 to 0.115 | 96.6 | 70.0 to 130 | 4.88  | 20.0 |
| BD06838 | Beryllium, Total     | mg/L  | 0.0000000  | 0.000880 | 0.100 | 0.0961 | 0.0991 | 0.0944   | 0.0850 to 0.115 | 96.1 | 70.0 to 130 | 3.07  | 20.0 |
| BD06839 | Boron, Dissolved     | mg/L  | -0.000075  | 0.0650   | 1.00  | 1.08   | 1.08   | 1.00     | 0.850 to 1.15   | 102  | 70.0 to 130 | 0.00  | 20.0 |
| BD06838 | Boron, Total         | mg/L  | -0.000537  | 0.0650   | 1.00  | 1.06   | 1.07   | 1.02     | 0.850 to 1.15   | 102  | 70.0 to 130 | 0.939 | 20.0 |
| BD06839 | Cadmium, Dissolved   | mg/L  | 0.0000046  | 0.000147 | 0.100 | 0.0986 | 0.0955 | 0.0982   | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 3.19  | 20.0 |
| BD06838 | Cadmium, Total       | mg/L  | 0.0000043  | 0.000147 | 0.100 | 0.0946 | 0.0954 | 0.0962   | 0.0850 to 0.115 | 94.6 | 70.0 to 130 | 0.842 | 20.0 |
| BD06839 | Calcium, Dissolved   | mg/L  | -0.00493   | 0.152    | 5.00  | 14.4   | 14.3   | 4.94     | 4.25 to 5.75    | 94.6 | 70.0 to 130 | 0.697 | 20.0 |
| BD06838 | Calcium, Total       | mg/L  | -0.0178    | 0.152    | 5.00  | 9.85   | 10.1   | 5.00     | 4.25 to 5.75    | 99.2 | 70.0 to 130 | 2.51  | 20.0 |
| BD06837 | Chloride             | mg/L  | 0.0436     | 1.00     | 200   | 259    | 263    | 10.1     | 9.00 to 11.0    | 102  | 80.0 to 120 | 1.53  | 20.0 |
| BD06839 | Chromium, Dissolved  | mg/L  | -0.0000370 | 0.000440 | 0.100 | 0.0988 | 0.0992 | 0.0995   | 0.0850 to 0.115 | 95.8 | 70.0 to 130 | 0.404 | 20.0 |
| BD06838 | Chromium, Total      | mg/L  | -0.0000476 | 0.000440 | 0.100 | 0.0986 | 0.0969 | 0.0965   | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 1.74  | 20.0 |
| BD06839 | Cobalt, Dissolved    | mg/L  | -0.0000017 | 0.000147 | 0.100 | 0.101  | 0.101  | 0.101    | 0.0850 to 0.115 | 99.9 | 70.0 to 130 | 0.00  | 20.0 |
| BD06838 | Cobalt, Total        | mg/L  | 0.0000042  | 0.000147 | 0.100 | 0.101  | 0.0985 | 0.0997   | 0.0850 to 0.115 | 101  | 70.0 to 130 | 2.51  | 20.0 |
| BD06838 | Fluoride             | mg/L  | -0.00248   | 0.125    | 2.50  | 2.72   | 2.76   | 2.59     | 2.25 to 2.75    | 106  | 80.0 to 120 | 1.46  | 20.0 |
| BD06839 | Iron, Dissolved      | mg/L  | -0.00183   | 0.0176   | 0.2   | 32.1   | 32.1   | 0.195    | 0.170 to 0.230  | 50.0 | 70.0 to 130 | 0.00  | 20.0 |
| BD06838 | Iron, Total          | mg/L  | 0.000416   | 0.0176   | 0.2   | 14.9   | 14.1   | 0.200    | 0.170 to 0.230  | 450  | 70.0 to 130 | 5.52  | 20.0 |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/4/23 15:05

**Customer ID:**

**Delivery Date:** 4/6/23 11:49

**Description:** Barry Ash Pond - MW-14V

**Laboratory ID Number:** BD06830

| Sample  | Analysis               | Units | MB         |          | Spike | MS      | MSD    | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|--------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB         | Limit    |       |         |        | Standard | Limit              | Rec  | Limit       |       |       |
| BD06839 | Lead, Dissolved        | mg/L  | 0.0000118  | 0.000147 | 0.100 | 0.100   | 0.0955 | 0.0971   | 0.0850 to 0.115    | 100  | 70.0 to 130 | 4.60  | 20.0  |
| BD06838 | Lead, Total            | mg/L  | 0.0000027  | 0.000147 | 0.100 | 0.0958  | 0.0961 | 0.0945   | 0.0850 to 0.115    | 95.8 | 70.0 to 130 | 0.313 | 20.0  |
| BD06839 | Lithium, Dissolved     | mg/L  | 0.000245   | 0.0154   | 0.200 | 0.203   | 0.199  | 0.195    | 0.170 to 0.230     | 102  | 70.0 to 130 | 1.99  | 20.0  |
| BD06838 | Lithium, Total         | mg/L  | -0.000701  | 0.0154   | 0.200 | 0.204   | 0.201  | 0.199    | 0.170 to 0.230     | 102  | 70.0 to 130 | 1.48  | 20.0  |
| BD06839 | Magnesium, Dissolved   | mg/L  | 0.000      | 0.0462   | 5.00  | 11.0    | 11.0   | 4.93     | 4.25 to 5.75       | 97.6 | 70.0 to 130 | 0.00  | 20.0  |
| BD06838 | Magnesium, Total       | mg/L  | -0.00548   | 0.0462   | 5.00  | 6.45    | 6.43   | 4.93     | 4.25 to 5.75       | 99.8 | 70.0 to 130 | 0.311 | 20.0  |
| BD06839 | Manganese, Dissolved   | mg/L  | 0.0000167  | 0.00033  | 0.100 | 0.376   | 0.381  | 0.101    | 0.0850 to 0.115    | 94.0 | 70.0 to 130 | 1.32  | 20.0  |
| BD06838 | Manganese, Total       | mg/L  | 0.000200   | 0.00033  | 0.100 | 0.340   | 0.329  | 0.0980   | 0.0850 to 0.115    | 108  | 70.0 to 130 | 3.29  | 20.0  |
| BD06838 | Mercury, Total by CVAA | mg/L  | 2.000E-05  | 0.000500 | 0.004 | 0.00399 | 0.004  | 0.00403  | 0.00340 to 0.00460 | 99.8 | 70.0 to 130 | 0.250 | 20.0  |
| BD06839 | Molybdenum, Dissolved  | mg/L  | -0.000152  | 0.0100   | 0.2   | 0.197   | 0.194  | 0.195    | 0.170 to 0.230     | 98.5 | 70.0 to 130 | 1.53  | 20.0  |
| BD06838 | Molybdenum, Total      | mg/L  | -0.001     | 0.0100   | 0.2   | 0.200   | 0.201  | 0.201    | 0.170 to 0.230     | 100  | 70.0 to 130 | 0.499 | 20.0  |
| BD06839 | Potassium, Dissolved   | mg/L  | 0.00935    | 0.367    | 10.0  | 12.2    | 12.2   | 9.82     | 8.50 to 11.5       | 98.2 | 70.0 to 130 | 0.00  | 20.0  |
| BD06838 | Potassium, Total       | mg/L  | -0.00778   | 0.367    | 10.0  | 10.4    | 10.5   | 9.95     | 8.50 to 11.5       | 100  | 70.0 to 130 | 0.957 | 20.0  |
| BD06839 | Selenium, Dissolved    | mg/L  | 0.000102   | 0.00100  | 0.100 | 0.103   | 0.104  | 0.0997   | 0.0850 to 0.115    | 103  | 70.0 to 130 | 0.966 | 20.0  |
| BD06838 | Selenium, Total        | mg/L  | 0.0000454  | 0.00100  | 0.100 | 0.0988  | 0.0998 | 0.100    | 0.0850 to 0.115    | 98.8 | 70.0 to 130 | 1.01  | 20.0  |
| BD06839 | Silicon, Dissolved     | mg/L  | 0.000229   | 0.0440   | 1.00  | 10.2    | 10.2   | 0.997    | 0.850 to 1.15      | 94.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD06838 | Silicon, Total         | mg/L  | -0.000048  | 0.0440   | 1.00  | 5.47    | 5.48   | 1.02     | 0.850 to 1.15      | 107  | 70.0 to 130 | 0.183 | 20.0  |
| BD06839 | Sodium, Dissolved      | mg/L  | 0.0149     | 0.0880   | 5.00  | 78.3    | 78.6   | 5.23     | 4.25 to 5.75       | 76.0 | 70.0 to 130 | 0.382 | 20.0  |
| BD06838 | Sodium, Total          | mg/L  | 0.000332   | 0.0880   | 5.00  | 14.7    | 14.4   | 4.87     | 4.25 to 5.75       | 97.6 | 70.0 to 130 | 2.06  | 20.0  |
| BD06835 | Sulfate                | mg/L  | -0.0671    | 2.0      | 20.0  | 22.3    | 22.4   | 19.9     | 18.0 to 22.0       | 96.9 | 80.0 to 120 | 0.447 | 20.0  |
| BD06839 | Thallium, Dissolved    | mg/L  | -0.0000001 | 0.000147 | 0.100 | 0.102   | 0.0974 | 0.0992   | 0.0850 to 0.115    | 102  | 70.0 to 130 | 4.61  | 20.0  |
| BD06838 | Thallium, Total        | mg/L  | 0.0000054  | 0.000147 | 0.100 | 0.0974  | 0.0989 | 0.0978   | 0.0850 to 0.115    | 97.4 | 70.0 to 130 | 1.53  | 20.0  |
| BD06838 | Total Organic Carbon   | mg/L  | 0.0766     | 1.00     | 10.0  | 12.5    | 12.5   | 24.8     |                    | 99.2 | 80.0 to 120 | 0.00  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/4/23 15:05

**Customer ID:**

**Delivery Date:** 4/6/23 11:49

**Description:** Barry Ash Pond - MW-14V

**Laboratory ID Number:** BD06830

| Sample  | Analysis                  | Units      | MB   | MB<br>Limit | Spike | MS   | Sample<br>Duplicate | Standard | Standard<br>Limit | Rec | Rec<br>Limit | Prec  | Prec<br>Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------|-------------------|-----|--------------|-------|---------------|
| BD06839 | Alkalinity to pH 4.5      | mg CaCO3/L |      |             |       |      | 167                 | 50.5     | 45.0 to 55.0      |     |              | 0.601 | 10.0          |
| BD06835 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.04 | 0.200       | 2.00  | 2.32 | 0.166               | 1.92     | 1.80 to 2.20      | 116 | 90.0 to 110  | 0.00  | 15.0          |
| BD06836 | Solids, Dissolved         | mg/L       | 1.00 | 25.0        |       |      | 222                 | 51.0     | 40.0 to 60.0      |     |              | 1.36  | 10.0          |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-16

**Location Code:** WMWBARAP  
**Collected:** 4/5/23 09:45  
**Customer ID:**  
**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06831

| Name                                | Prepared     | Analyzed      | Vio Spec            | DF    | Results                             | Units | MDL      | RL         | Q |
|-------------------------------------|--------------|---------------|---------------------|-------|-------------------------------------|-------|----------|------------|---|
| <b>Analytical Method: EPA 200.7</b> |              |               | <b>Analyst: ABB</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Boron, Total                      | 4/7/23 14:10 | 4/11/23 12:01 |                     | 1.015 | 2.29                                | mg/L  | 0.030000 | 0.1015     |   |
| * Calcium, Total                    | 4/7/23 14:10 | 4/11/23 12:01 |                     | 1.015 | 11.4                                | mg/L  | 0.070035 | 0.406      |   |
| * Iron, Total                       | 4/7/23 14:10 | 4/11/23 14:04 |                     | 101.5 | 131                                 | mg/L  | 0.8120   | 4.06       |   |
| * Lithium, Total                    | 4/7/23 14:10 | 4/11/23 12:01 |                     | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |
| * Magnesium, Total                  | 4/7/23 14:10 | 4/11/23 12:01 |                     | 1.015 | 6.61                                | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Total                 | 4/7/23 14:10 | 4/11/23 12:01 |                     | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Total (calc.)             | 4/7/23 14:10 | 4/11/23 12:01 |                     | 1     | 25.3                                | mg/L  |          |            |   |
| * Silicon, Total                    | 4/7/23 14:10 | 4/11/23 12:01 |                     | 1.015 | 11.8                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Total                     | 4/7/23 14:10 | 4/11/23 12:01 |                     | 1.015 | 25.7                                | mg/L  | 0.04060  | 0.406      |   |
| <b>Analytical Method: EPA 200.7</b> |              |               | <b>Analyst: ABB</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Boron, Dissolved                  | 4/7/23 11:45 | 4/12/23 11:59 |                     | 1.015 | 2.26                                | mg/L  | 0.030000 | 0.1015     |   |
| * Calcium, Dissolved                | 4/7/23 11:45 | 4/12/23 11:59 |                     | 1.015 | 11.4                                | mg/L  | 0.070035 | 0.406      |   |
| * Iron, Dissolved                   | 4/7/23 11:45 | 4/12/23 14:05 |                     | 101.5 | 131                                 | mg/L  | 0.8120   | 4.06       |   |
| * Lithium, Dissolved                | 4/7/23 11:45 | 4/12/23 11:59 |                     | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |
| * Magnesium, Dissolved              | 4/7/23 11:45 | 4/12/23 11:59 |                     | 1.015 | 6.54                                | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Dissolved             | 4/7/23 11:45 | 4/12/23 11:59 |                     | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Dissolved (calc.)         | 4/7/23 11:45 | 4/12/23 11:59 |                     | 1     | 24.8                                | mg/L  |          |            |   |
| * Silicon, Dissolved                | 4/7/23 11:45 | 4/12/23 11:59 |                     | 1.015 | 11.6                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Dissolved                 | 4/7/23 11:45 | 4/12/23 12:55 |                     | 1.015 | 24.8                                | mg/L  | 0.04060  | 0.406      |   |
| <b>Analytical Method: EPA 200.8</b> |              |               | <b>Analyst: DLJ</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Antimony, Total                   | 4/7/23 14:10 | 4/7/23 17:34  |                     | 1.015 | Not Detected                        | mg/L  | 0.000710 | 0.001015   | U |
| * Aluminum, Total                   | 4/7/23 14:10 | 4/7/23 17:34  |                     | 1.015 | 0.0263                              | mg/L  | 0.009135 | 0.05075    | J |
| * Arsenic, Total                    | 4/7/23 14:10 | 4/7/23 17:34  |                     | 1.015 | 0.0156                              | mg/L  | 0.000112 | 0.000203   |   |
| * Barium, Total                     | 4/7/23 14:10 | 4/7/23 17:34  |                     | 1.015 | 0.0852                              | mg/L  | 0.000508 | 0.001015   |   |
| * Beryllium, Total                  | 4/7/23 14:10 | 4/7/23 17:34  |                     | 1.015 | Not Detected                        | mg/L  | 0.000406 | 0.001015   | U |
| * Cadmium, Total                    | 4/7/23 14:10 | 4/7/23 17:34  |                     | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |
| * Chromium, Total                   | 4/7/23 14:10 | 4/7/23 17:34  |                     | 1.015 | 0.00125                             | mg/L  | 0.000203 | 0.001015   |   |
| * Cobalt, Total                     | 4/7/23 14:10 | 4/7/23 17:34  |                     | 1.015 | 0.00721                             | mg/L  | 0.000068 | 0.000203   |   |
| * Lead, Total                       | 4/7/23 14:10 | 4/7/23 17:34  |                     | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |
| * Manganese, Total                  | 4/7/23 14:10 | 4/7/23 17:34  |                     | 1.015 | 0.582                               | mg/L  | 0.000152 | 0.001015   |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-16

**Location Code:** WMWBARAP  
**Collected:** 4/5/23 09:45  
**Customer ID:**  
**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06831

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/7/23 14:10  | 4/7/23 17:34        |          | 1.015 | 2.25         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/7/23 14:10  | 4/7/23 17:34        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/7/23 14:10  | 4/7/23 17:34        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:25        |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:25        |          | 1.015 | Not Detected | mg/L       | 0.009135 | 0.05075  | U |
| * Arsenic, Dissolved                   | 4/7/23 11:45  | 4/7/23 14:25        |          | 1.015 | 0.0167       | mg/L       | 0.000112 | 0.000203 |   |
| * Barium, Dissolved                    | 4/7/23 11:45  | 4/7/23 14:25        |          | 1.015 | 0.0787       | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/7/23 11:45  | 4/7/23 14:25        |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/7/23 11:45  | 4/7/23 14:25        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:25        |          | 1.015 | 0.00125      | mg/L       | 0.000203 | 0.001015 |   |
| * Cobalt, Dissolved                    | 4/7/23 11:45  | 4/7/23 14:25        |          | 1.015 | 0.00729      | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/7/23 11:45  | 4/7/23 14:25        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/7/23 11:45  | 4/7/23 14:25        |          | 1.015 | 0.589        | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/7/23 11:45  | 4/7/23 14:25        |          | 1.015 | 2.19         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:25        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:25        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/11/23 18:35 | 4/12/23 01:34       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/10/23 14:53 | 4/10/23 14:53       |          | 1     | 0.212        | mg/L as N  | 0.20     | 0.3      | J |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/18/23 10:05 | 4/18/23 11:02       |          | 1     | 223          | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/10/23 12:00 | 4/12/23 09:20       |          | 1     | 327          | mg/L       |          | 25       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/18/23 10:05 | 4/18/23 11:02       |          | 1     | 223          | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 4/18/23 10:05 | 4/18/23 11:02       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/12/23 14:34 | 4/12/23 14:34       |          | 1     | 9.27         | mg/L       | 1.00     | 2        |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-16

**Location Code:** WMWBARAP

**Collected:** 4/5/23 09:45

**Customer ID:**

**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06831

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Chloride                                   | 4/12/23 12:59 | 4/12/23 12:59       |          | 2  | 21.8    | mg/L  | 1.00 | 1     |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Fluoride                                   | 4/13/23 11:38 | 4/13/23 11:38       |          | 1  | 0.144   | mg/L  | 0.06 | 0.125 |    |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |         |       |      |       |    |
| * Sulfate                                    | 4/17/23 14:42 | 4/17/23 14:42       |          | 1  | 9.30    | mg/L  | 0.6  | 2     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: AWG</b> |          |    |         |       |      |       |    |
| Conductivity                                 | 4/5/23 09:42  | 4/5/23 09:42        |          |    | 562.14  | uS/cm |      |       | FA |
| pH   | 4/5/23 09:42  | 4/5/23 09:42        |          |    | 5.83    | SU    |      |       | FA |
| Temperature                                  | 4/5/23 09:42  | 4/5/23 09:42        |          |    | 21.91   | C     |      |       | FA |
| Turbidity                                    | 4/5/23 09:42  | 4/5/23 09:42        |          |    | 4.09    | NTU   |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/5/23 09:45  
**Customer ID:**  
**Delivery Date:** 4/6/23 11:49

**Description:** Barry Ash Pond - MW-16

**Laboratory ID Number:** BD06831

| Sample  | Analysis             | Units | MB         | MB       |       |        |        | Standard |                 | Rec  |             |       | Prec Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|------------|
|         |                      |       |            | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec  | Limit       | Prec  |            |
| BD06839 | Aluminum, Dissolved  | mg/L  | 0.0000353  | 0.0198   | 0.100 | 0.106  | 0.107  | 0.0999   | 0.0850 to 0.115 | 106  | 70.0 to 130 | 0.939 | 20.0       |
| BD06838 | Aluminum, Total      | mg/L  | 0.000609   | 0.0198   | 0.100 | 0.155  | 0.156  | 0.103    | 0.0850 to 0.115 | 111  | 70.0 to 130 | 0.643 | 20.0       |
| BD06839 | Antimony, Dissolved  | mg/L  | 0.000377   | 0.00100  | 0.100 | 0.0917 | 0.0904 | 0.0898   | 0.0850 to 0.115 | 91.7 | 70.0 to 130 | 1.43  | 20.0       |
| BD06838 | Antimony, Total      | mg/L  | 0.000237   | 0.00100  | 0.100 | 0.0909 | 0.0928 | 0.0867   | 0.0850 to 0.115 | 90.9 | 70.0 to 130 | 2.07  | 20.0       |
| BD06839 | Arsenic, Dissolved   | mg/L  | 0.0000113  | 0.000200 | 0.100 | 0.116  | 0.117  | 0.0990   | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 0.858 | 20.0       |
| BD06838 | Arsenic, Total       | mg/L  | 0.0000156  | 0.000200 | 0.100 | 0.0974 | 0.0996 | 0.0998   | 0.0850 to 0.115 | 96.5 | 70.0 to 130 | 2.23  | 20.0       |
| BD06839 | Barium, Dissolved    | mg/L  | 0.0000105  | 0.00100  | 0.100 | 0.149  | 0.147  | 0.0944   | 0.0850 to 0.115 | 92.7 | 70.0 to 130 | 1.35  | 20.0       |
| BD06838 | Barium, Total        | mg/L  | -0.0000063 | 0.00100  | 0.100 | 0.117  | 0.116  | 0.0923   | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 0.858 | 20.0       |
| BD06839 | Beryllium, Dissolved | mg/L  | 0.0000117  | 0.000880 | 0.100 | 0.0966 | 0.0920 | 0.0908   | 0.0850 to 0.115 | 96.6 | 70.0 to 130 | 4.88  | 20.0       |
| BD06838 | Beryllium, Total     | mg/L  | 0.0000000  | 0.000880 | 0.100 | 0.0961 | 0.0991 | 0.0944   | 0.0850 to 0.115 | 96.1 | 70.0 to 130 | 3.07  | 20.0       |
| BD06839 | Boron, Dissolved     | mg/L  | -0.000075  | 0.0650   | 1.00  | 1.08   | 1.08   | 1.00     | 0.850 to 1.15   | 102  | 70.0 to 130 | 0.00  | 20.0       |
| BD06838 | Boron, Total         | mg/L  | -0.000537  | 0.0650   | 1.00  | 1.06   | 1.07   | 1.02     | 0.850 to 1.15   | 102  | 70.0 to 130 | 0.939 | 20.0       |
| BD06839 | Cadmium, Dissolved   | mg/L  | 0.0000046  | 0.000147 | 0.100 | 0.0986 | 0.0955 | 0.0982   | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 3.19  | 20.0       |
| BD06838 | Cadmium, Total       | mg/L  | 0.0000043  | 0.000147 | 0.100 | 0.0946 | 0.0954 | 0.0962   | 0.0850 to 0.115 | 94.6 | 70.0 to 130 | 0.842 | 20.0       |
| BD06839 | Calcium, Dissolved   | mg/L  | -0.00493   | 0.152    | 5.00  | 14.4   | 14.3   | 4.94     | 4.25 to 5.75    | 94.6 | 70.0 to 130 | 0.697 | 20.0       |
| BD06838 | Calcium, Total       | mg/L  | -0.0178    | 0.152    | 5.00  | 9.85   | 10.1   | 5.00     | 4.25 to 5.75    | 99.2 | 70.0 to 130 | 2.51  | 20.0       |
| BD06837 | Chloride             | mg/L  | 0.0436     | 1.00     | 200   | 259    | 263    | 10.1     | 9.00 to 11.0    | 102  | 80.0 to 120 | 1.53  | 20.0       |
| BD06839 | Chromium, Dissolved  | mg/L  | -0.0000370 | 0.000440 | 0.100 | 0.0988 | 0.0992 | 0.0995   | 0.0850 to 0.115 | 95.8 | 70.0 to 130 | 0.404 | 20.0       |
| BD06838 | Chromium, Total      | mg/L  | -0.0000476 | 0.000440 | 0.100 | 0.0986 | 0.0969 | 0.0965   | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 1.74  | 20.0       |
| BD06839 | Cobalt, Dissolved    | mg/L  | -0.0000017 | 0.000147 | 0.100 | 0.101  | 0.101  | 0.101    | 0.0850 to 0.115 | 99.9 | 70.0 to 130 | 0.00  | 20.0       |
| BD06838 | Cobalt, Total        | mg/L  | 0.0000042  | 0.000147 | 0.100 | 0.101  | 0.0985 | 0.0997   | 0.0850 to 0.115 | 101  | 70.0 to 130 | 2.51  | 20.0       |
| BD06838 | Fluoride             | mg/L  | -0.00248   | 0.125    | 2.50  | 2.72   | 2.76   | 2.59     | 2.25 to 2.75    | 106  | 80.0 to 120 | 1.46  | 20.0       |
| BD06839 | Iron, Dissolved      | mg/L  | -0.00183   | 0.0176   | 0.2   | 32.1   | 32.1   | 0.195    | 0.170 to 0.230  | 50.0 | 70.0 to 130 | 0.00  | 20.0       |
| BD06838 | Iron, Total          | mg/L  | 0.000416   | 0.0176   | 0.2   | 14.9   | 14.1   | 0.200    | 0.170 to 0.230  | 450  | 70.0 to 130 | 5.52  | 20.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/5/23 09:45  
**Customer ID:**  
**Delivery Date:** 4/6/23 11:49

**Description:** Barry Ash Pond - MW-16

**Laboratory ID Number:** BD06831

| Sample  | Analysis               | Units | MB         |          |       |         |        | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|--------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB         | Limit    | Spike | MS      | MSD    | Standard | Limit              | Rec  | Limit       |       |       |
| BD06839 | Lead, Dissolved        | mg/L  | 0.0000118  | 0.000147 | 0.100 | 0.100   | 0.0955 | 0.0971   | 0.0850 to 0.115    | 100  | 70.0 to 130 | 4.60  | 20.0  |
| BD06838 | Lead, Total            | mg/L  | 0.0000027  | 0.000147 | 0.100 | 0.0958  | 0.0961 | 0.0945   | 0.0850 to 0.115    | 95.8 | 70.0 to 130 | 0.313 | 20.0  |
| BD06839 | Lithium, Dissolved     | mg/L  | 0.000245   | 0.0154   | 0.200 | 0.203   | 0.199  | 0.195    | 0.170 to 0.230     | 102  | 70.0 to 130 | 1.99  | 20.0  |
| BD06838 | Lithium, Total         | mg/L  | -0.000701  | 0.0154   | 0.200 | 0.204   | 0.201  | 0.199    | 0.170 to 0.230     | 102  | 70.0 to 130 | 1.48  | 20.0  |
| BD06839 | Magnesium, Dissolved   | mg/L  | 0.000      | 0.0462   | 5.00  | 11.0    | 11.0   | 4.93     | 4.25 to 5.75       | 97.6 | 70.0 to 130 | 0.00  | 20.0  |
| BD06838 | Magnesium, Total       | mg/L  | -0.00548   | 0.0462   | 5.00  | 6.45    | 6.43   | 4.93     | 4.25 to 5.75       | 99.8 | 70.0 to 130 | 0.311 | 20.0  |
| BD06839 | Manganese, Dissolved   | mg/L  | 0.0000167  | 0.00033  | 0.100 | 0.376   | 0.381  | 0.101    | 0.0850 to 0.115    | 94.0 | 70.0 to 130 | 1.32  | 20.0  |
| BD06838 | Manganese, Total       | mg/L  | 0.000200   | 0.00033  | 0.100 | 0.340   | 0.329  | 0.0980   | 0.0850 to 0.115    | 108  | 70.0 to 130 | 3.29  | 20.0  |
| BD06838 | Mercury, Total by CVAA | mg/L  | 2.000E-05  | 0.000500 | 0.004 | 0.00399 | 0.004  | 0.00403  | 0.00340 to 0.00460 | 99.8 | 70.0 to 130 | 0.250 | 20.0  |
| BD06839 | Molybdenum, Dissolved  | mg/L  | -0.000152  | 0.0100   | 0.2   | 0.197   | 0.194  | 0.195    | 0.170 to 0.230     | 98.5 | 70.0 to 130 | 1.53  | 20.0  |
| BD06838 | Molybdenum, Total      | mg/L  | -0.001     | 0.0100   | 0.2   | 0.200   | 0.201  | 0.201    | 0.170 to 0.230     | 100  | 70.0 to 130 | 0.499 | 20.0  |
| BD06839 | Potassium, Dissolved   | mg/L  | 0.00935    | 0.367    | 10.0  | 12.2    | 12.2   | 9.82     | 8.50 to 11.5       | 98.2 | 70.0 to 130 | 0.00  | 20.0  |
| BD06838 | Potassium, Total       | mg/L  | -0.00778   | 0.367    | 10.0  | 10.4    | 10.5   | 9.95     | 8.50 to 11.5       | 100  | 70.0 to 130 | 0.957 | 20.0  |
| BD06839 | Selenium, Dissolved    | mg/L  | 0.000102   | 0.00100  | 0.100 | 0.103   | 0.104  | 0.0997   | 0.0850 to 0.115    | 103  | 70.0 to 130 | 0.966 | 20.0  |
| BD06838 | Selenium, Total        | mg/L  | 0.0000454  | 0.00100  | 0.100 | 0.0988  | 0.0998 | 0.100    | 0.0850 to 0.115    | 98.8 | 70.0 to 130 | 1.01  | 20.0  |
| BD06839 | Silicon, Dissolved     | mg/L  | 0.000229   | 0.0440   | 1.00  | 10.2    | 10.2   | 0.997    | 0.850 to 1.15      | 94.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD06838 | Silicon, Total         | mg/L  | -0.000048  | 0.0440   | 1.00  | 5.47    | 5.48   | 1.02     | 0.850 to 1.15      | 107  | 70.0 to 130 | 0.183 | 20.0  |
| BD06839 | Sodium, Dissolved      | mg/L  | 0.0149     | 0.0880   | 5.00  | 78.3    | 78.6   | 5.23     | 4.25 to 5.75       | 76.0 | 70.0 to 130 | 0.382 | 20.0  |
| BD06838 | Sodium, Total          | mg/L  | 0.000332   | 0.0880   | 5.00  | 14.7    | 14.4   | 4.87     | 4.25 to 5.75       | 97.6 | 70.0 to 130 | 2.06  | 20.0  |
| BD06835 | Sulfate                | mg/L  | -0.0671    | 2.0      | 20.0  | 22.3    | 22.4   | 19.9     | 18.0 to 22.0       | 96.9 | 80.0 to 120 | 0.447 | 20.0  |
| BD06839 | Thallium, Dissolved    | mg/L  | -0.0000001 | 0.000147 | 0.100 | 0.102   | 0.0974 | 0.0992   | 0.0850 to 0.115    | 102  | 70.0 to 130 | 4.61  | 20.0  |
| BD06838 | Thallium, Total        | mg/L  | 0.0000054  | 0.000147 | 0.100 | 0.0974  | 0.0989 | 0.0978   | 0.0850 to 0.115    | 97.4 | 70.0 to 130 | 1.53  | 20.0  |
| BD06838 | Total Organic Carbon   | mg/L  | 0.0766     | 1.00     | 10.0  | 12.5    | 12.5   | 24.8     |                    | 99.2 | 80.0 to 120 | 0.00  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/5/23 09:45

**Customer ID:**

**Delivery Date:** 4/6/23 11:49

**Description:** Barry Ash Pond - MW-16

**Laboratory ID Number:** BD06831

| Sample  | Analysis                  | Units      | MB     | MB<br>Limit | Spike | MS   | Sample<br>Duplicate | Standard | Standard<br>Limit | Rec | Rec<br>Limit | Prec  | Prec<br>Limit |
|---------|---------------------------|------------|--------|-------------|-------|------|---------------------|----------|-------------------|-----|--------------|-------|---------------|
| BD06839 | Alkalinity to pH 4.5      | mg CaCO3/L |        |             |       |      | 167                 | 50.5     | 45.0 to 55.0      |     |              | 0.601 | 10.0          |
| BD06835 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.04   | 0.200       | 2.00  | 2.32 | 0.166               | 1.92     | 1.80 to 2.20      | 116 | 90.0 to 110  | 0.00  | 15.0          |
| BD06839 | Solids, Dissolved         | mg/L       | 0.0000 | 25.0        |       |      | 315                 | 52.0     | 40.0 to 60.0      |     |              | 0.317 | 10.0          |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-5V

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 11:11  
**Customer ID:**  
**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06832

| Name                                | Prepared     | Analyzed            | Vio Spec | DF    | Results                             | Units | MDL      | RL         | Q |
|-------------------------------------|--------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| <b>Analytical Method: EPA 200.7</b> |              | <b>Analyst: ABB</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Boron, Total                      | 4/7/23 14:10 | 4/11/23 12:04       |          | 1.015 | 0.0924                              | mg/L  | 0.030000 | 0.1015     | J |
| * Calcium, Total                    | 4/7/23 14:10 | 4/11/23 12:04       |          | 1.015 | 2.13                                | mg/L  | 0.070035 | 0.406      |   |
| * Iron, Total                       | 4/7/23 14:10 | 4/11/23 12:04       |          | 1.015 | 0.246                               | mg/L  | 0.008120 | 0.0406     |   |
| * Lithium, Total                    | 4/7/23 14:10 | 4/11/23 12:04       |          | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |
| * Magnesium, Total                  | 4/7/23 14:10 | 4/11/23 12:04       |          | 1.015 | 1.52                                | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Total                 | 4/7/23 14:10 | 4/11/23 12:04       |          | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Total (calc.)             | 4/7/23 14:10 | 4/11/23 12:04       |          | 1     | 12.6                                | mg/L  |          |            |   |
| * Silicon, Total                    | 4/7/23 14:10 | 4/11/23 12:04       |          | 1.015 | 5.88                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Total                     | 4/7/23 14:10 | 4/11/23 14:07       |          | 10.15 | 44.9                                | mg/L  | 0.4060   | 4.06       |   |
| <b>Analytical Method: EPA 200.7</b> |              | <b>Analyst: ABB</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Boron, Dissolved                  | 4/7/23 11:45 | 4/12/23 12:02       |          | 1.015 | 0.0910                              | mg/L  | 0.030000 | 0.1015     | J |
| * Calcium, Dissolved                | 4/7/23 11:45 | 4/12/23 12:02       |          | 1.015 | 2.11                                | mg/L  | 0.070035 | 0.406      |   |
| * Iron, Dissolved                   | 4/7/23 11:45 | 4/12/23 12:02       |          | 1.015 | 0.0411                              | mg/L  | 0.008120 | 0.0406     |   |
| * Lithium, Dissolved                | 4/7/23 11:45 | 4/12/23 12:02       |          | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |
| * Magnesium, Dissolved              | 4/7/23 11:45 | 4/12/23 12:02       |          | 1.015 | 1.47                                | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Dissolved             | 4/7/23 11:45 | 4/12/23 12:02       |          | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Dissolved (calc.)         | 4/7/23 11:45 | 4/12/23 12:02       |          | 1     | 12.5                                | mg/L  |          |            |   |
| * Silicon, Dissolved                | 4/7/23 11:45 | 4/12/23 12:02       |          | 1.015 | 5.82                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Dissolved                 | 4/7/23 11:45 | 4/12/23 14:08       |          | 10.15 | 44.4                                | mg/L  | 0.4060   | 4.06       |   |
| <b>Analytical Method: EPA 200.8</b> |              | <b>Analyst: DLJ</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Antimony, Total                   | 4/7/23 14:10 | 4/7/23 17:38        |          | 1.015 | Not Detected                        | mg/L  | 0.000710 | 0.001015   | U |
| * Aluminum, Total                   | 4/7/23 14:10 | 4/7/23 17:38        |          | 1.015 | 0.0102                              | mg/L  | 0.009135 | 0.05075    | J |
| * Arsenic, Total                    | 4/7/23 14:10 | 4/7/23 17:38        |          | 1.015 | Not Detected                        | mg/L  | 0.000112 | 0.000203   | U |
| * Barium, Total                     | 4/7/23 14:10 | 4/7/23 17:38        |          | 1.015 | 0.0465                              | mg/L  | 0.000508 | 0.001015   |   |
| * Beryllium, Total                  | 4/7/23 14:10 | 4/7/23 17:38        |          | 1.015 | Not Detected                        | mg/L  | 0.000406 | 0.001015   | U |
| * Cadmium, Total                    | 4/7/23 14:10 | 4/7/23 17:38        |          | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |
| * Chromium, Total                   | 4/7/23 14:10 | 4/7/23 17:38        |          | 1.015 | 0.000566                            | mg/L  | 0.000203 | 0.001015   | J |
| * Cobalt, Total                     | 4/7/23 14:10 | 4/7/23 17:38        |          | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |
| * Lead, Total                       | 4/7/23 14:10 | 4/7/23 17:38        |          | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |
| * Manganese, Total                  | 4/7/23 14:10 | 4/7/23 17:38        |          | 1.015 | 0.00193                             | mg/L  | 0.000152 | 0.001015   |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-5V

**Location Code:** WMWBARAP

**Collected:** 4/4/23 11:11

**Customer ID:**

**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06832

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/7/23 14:10  | 4/7/23 17:38        |          | 1.015 | 1.77         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/7/23 14:10  | 4/7/23 17:38        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/7/23 14:10  | 4/7/23 17:38        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:29        |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:29        |          | 1.015 | Not Detected | mg/L       | 0.009135 | 0.05075  | U |
| * Arsenic, Dissolved                   | 4/7/23 11:45  | 4/7/23 14:29        |          | 1.015 | Not Detected | mg/L       | 0.000112 | 0.000203 | U |
| * Barium, Dissolved                    | 4/7/23 11:45  | 4/7/23 14:29        |          | 1.015 | 0.0451       | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/7/23 11:45  | 4/7/23 14:29        |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/7/23 11:45  | 4/7/23 14:29        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:29        |          | 1.015 | 0.000502     | mg/L       | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved                    | 4/7/23 11:45  | 4/7/23 14:29        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Lead, Dissolved                      | 4/7/23 11:45  | 4/7/23 14:29        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/7/23 11:45  | 4/7/23 14:29        |          | 1.015 | 0.00190      | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/7/23 11:45  | 4/7/23 14:29        |          | 1.015 | 1.71         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:29        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:29        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/11/23 18:35 | 4/12/23 01:37       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/10/23 14:55 | 4/10/23 14:55       |          | 1     | Not Detected | mg/L as N  | 0.20     | 0.3      | U |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/18/23 10:05 | 4/18/23 11:02       |          | 1     | 54.0         | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/7/23 10:42  | 4/10/23 13:50       |          | 1     | 120          | mg/L       |          | 25       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/18/23 10:05 | 4/18/23 11:02       |          | 1     | 54.0         | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 4/18/23 10:05 | 4/18/23 11:02       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/12/23 14:51 | 4/12/23 14:51       |          | 1     | Not Detected | mg/L       | 1.00     | 2        | U |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-5V

**Location Code:** WMWBARAP

**Collected:** 4/4/23 11:11

**Customer ID:**

**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06832

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results      | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|--------------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: CES</b> |          |    |              |       |      |       |    |
| * Chloride                                   | 4/12/23 13:01 | 4/12/23 13:01       |          | 5  | 39.5         | mg/L  | 2.50 | 2.5   |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: CES</b> |          |    |              |       |      |       |    |
| * Fluoride                                   | 4/13/23 11:39 | 4/13/23 11:39       |          | 1  | Not Detected | mg/L  | 0.06 | 0.125 | U  |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |              |       |      |       |    |
| * Sulfate                                    | 4/17/23 14:32 | 4/17/23 14:32       |          | 1  | 4.84         | mg/L  | 0.6  | 2     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: DKG</b> |          |    |              |       |      |       |    |
| Conductivity                                 | 4/4/23 11:08  | 4/4/23 11:08        |          |    | 236.13       | uS/cm |      |       | FA |
| pH   | 4/4/23 11:08  | 4/4/23 11:08        |          |    | 5.99         | SU    |      |       | FA |
| Temperature                                  | 4/4/23 11:08  | 4/4/23 11:08        |          |    | 22.54        | C     |      |       | FA |
| Turbidity                                    | 4/4/23 11:08  | 4/4/23 11:08        |          |    | 3.45         | NTU   |      |       | FA |
| Sulfide                                      | 4/4/23 11:08  | 4/4/23 11:08        |          |    | 0            | mg/L  |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/4/23 11:11

**Customer ID:**

**Delivery Date:** 4/6/23 11:49

**Description:** Barry Ash Pond - MW-5V

**Laboratory ID Number:** BD06832

| Sample  | Analysis             | Units | MB         | MB       |       |        |        | Standard |                 | Rec  |             |       | Prec Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|------------|
|         |                      |       |            | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec  | Limit       | Prec  |            |
| BD06839 | Aluminum, Dissolved  | mg/L  | 0.0000353  | 0.0198   | 0.100 | 0.106  | 0.107  | 0.0999   | 0.0850 to 0.115 | 106  | 70.0 to 130 | 0.939 | 20.0       |
| BD06838 | Aluminum, Total      | mg/L  | 0.000609   | 0.0198   | 0.100 | 0.155  | 0.156  | 0.103    | 0.0850 to 0.115 | 111  | 70.0 to 130 | 0.643 | 20.0       |
| BD06839 | Antimony, Dissolved  | mg/L  | 0.000377   | 0.00100  | 0.100 | 0.0917 | 0.0904 | 0.0898   | 0.0850 to 0.115 | 91.7 | 70.0 to 130 | 1.43  | 20.0       |
| BD06838 | Antimony, Total      | mg/L  | 0.000237   | 0.00100  | 0.100 | 0.0909 | 0.0928 | 0.0867   | 0.0850 to 0.115 | 90.9 | 70.0 to 130 | 2.07  | 20.0       |
| BD06839 | Arsenic, Dissolved   | mg/L  | 0.0000113  | 0.000200 | 0.100 | 0.116  | 0.117  | 0.0990   | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 0.858 | 20.0       |
| BD06838 | Arsenic, Total       | mg/L  | 0.0000156  | 0.000200 | 0.100 | 0.0974 | 0.0996 | 0.0998   | 0.0850 to 0.115 | 96.5 | 70.0 to 130 | 2.23  | 20.0       |
| BD06839 | Barium, Dissolved    | mg/L  | 0.0000105  | 0.00100  | 0.100 | 0.149  | 0.147  | 0.0944   | 0.0850 to 0.115 | 92.7 | 70.0 to 130 | 1.35  | 20.0       |
| BD06838 | Barium, Total        | mg/L  | -0.0000063 | 0.00100  | 0.100 | 0.117  | 0.116  | 0.0923   | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 0.858 | 20.0       |
| BD06839 | Beryllium, Dissolved | mg/L  | 0.0000117  | 0.000880 | 0.100 | 0.0966 | 0.0920 | 0.0908   | 0.0850 to 0.115 | 96.6 | 70.0 to 130 | 4.88  | 20.0       |
| BD06838 | Beryllium, Total     | mg/L  | 0.0000000  | 0.000880 | 0.100 | 0.0961 | 0.0991 | 0.0944   | 0.0850 to 0.115 | 96.1 | 70.0 to 130 | 3.07  | 20.0       |
| BD06839 | Boron, Dissolved     | mg/L  | -0.000075  | 0.0650   | 1.00  | 1.08   | 1.08   | 1.00     | 0.850 to 1.15   | 102  | 70.0 to 130 | 0.00  | 20.0       |
| BD06838 | Boron, Total         | mg/L  | -0.000537  | 0.0650   | 1.00  | 1.06   | 1.07   | 1.02     | 0.850 to 1.15   | 102  | 70.0 to 130 | 0.939 | 20.0       |
| BD06839 | Cadmium, Dissolved   | mg/L  | 0.0000046  | 0.000147 | 0.100 | 0.0986 | 0.0955 | 0.0982   | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 3.19  | 20.0       |
| BD06838 | Cadmium, Total       | mg/L  | 0.0000043  | 0.000147 | 0.100 | 0.0946 | 0.0954 | 0.0962   | 0.0850 to 0.115 | 94.6 | 70.0 to 130 | 0.842 | 20.0       |
| BD06839 | Calcium, Dissolved   | mg/L  | -0.00493   | 0.152    | 5.00  | 14.4   | 14.3   | 4.94     | 4.25 to 5.75    | 94.6 | 70.0 to 130 | 0.697 | 20.0       |
| BD06838 | Calcium, Total       | mg/L  | -0.0178    | 0.152    | 5.00  | 9.85   | 10.1   | 5.00     | 4.25 to 5.75    | 99.2 | 70.0 to 130 | 2.51  | 20.0       |
| BD06837 | Chloride             | mg/L  | 0.0436     | 1.00     | 200   | 259    | 263    | 10.1     | 9.00 to 11.0    | 102  | 80.0 to 120 | 1.53  | 20.0       |
| BD06839 | Chromium, Dissolved  | mg/L  | -0.0000370 | 0.000440 | 0.100 | 0.0988 | 0.0992 | 0.0995   | 0.0850 to 0.115 | 95.8 | 70.0 to 130 | 0.404 | 20.0       |
| BD06838 | Chromium, Total      | mg/L  | -0.0000476 | 0.000440 | 0.100 | 0.0986 | 0.0969 | 0.0965   | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 1.74  | 20.0       |
| BD06839 | Cobalt, Dissolved    | mg/L  | -0.0000017 | 0.000147 | 0.100 | 0.101  | 0.101  | 0.101    | 0.0850 to 0.115 | 99.9 | 70.0 to 130 | 0.00  | 20.0       |
| BD06838 | Cobalt, Total        | mg/L  | 0.0000042  | 0.000147 | 0.100 | 0.101  | 0.0985 | 0.0997   | 0.0850 to 0.115 | 101  | 70.0 to 130 | 2.51  | 20.0       |
| BD06838 | Fluoride             | mg/L  | -0.00248   | 0.125    | 2.50  | 2.72   | 2.76   | 2.59     | 2.25 to 2.75    | 106  | 80.0 to 120 | 1.46  | 20.0       |
| BD06839 | Iron, Dissolved      | mg/L  | -0.00183   | 0.0176   | 0.2   | 32.1   | 32.1   | 0.195    | 0.170 to 0.230  | 50.0 | 70.0 to 130 | 0.00  | 20.0       |
| BD06838 | Iron, Total          | mg/L  | 0.000416   | 0.0176   | 0.2   | 14.9   | 14.1   | 0.200    | 0.170 to 0.230  | 450  | 70.0 to 130 | 5.52  | 20.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/4/23 11:11  
**Customer ID:**  
**Delivery Date:** 4/6/23 11:49

**Description:** Barry Ash Pond - MW-5V

**Laboratory ID Number:** BD06832

| Sample  | Analysis               | Units | MB         |          | Spike | MS      | MSD    | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|--------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB         | Limit    |       |         |        | Standard | Limit              | Rec  | Limit       |       |       |
| BD06839 | Lead, Dissolved        | mg/L  | 0.0000118  | 0.000147 | 0.100 | 0.100   | 0.0955 | 0.0971   | 0.0850 to 0.115    | 100  | 70.0 to 130 | 4.60  | 20.0  |
| BD06838 | Lead, Total            | mg/L  | 0.0000027  | 0.000147 | 0.100 | 0.0958  | 0.0961 | 0.0945   | 0.0850 to 0.115    | 95.8 | 70.0 to 130 | 0.313 | 20.0  |
| BD06839 | Lithium, Dissolved     | mg/L  | 0.000245   | 0.0154   | 0.200 | 0.203   | 0.199  | 0.195    | 0.170 to 0.230     | 102  | 70.0 to 130 | 1.99  | 20.0  |
| BD06838 | Lithium, Total         | mg/L  | -0.000701  | 0.0154   | 0.200 | 0.204   | 0.201  | 0.199    | 0.170 to 0.230     | 102  | 70.0 to 130 | 1.48  | 20.0  |
| BD06839 | Magnesium, Dissolved   | mg/L  | 0.000      | 0.0462   | 5.00  | 11.0    | 11.0   | 4.93     | 4.25 to 5.75       | 97.6 | 70.0 to 130 | 0.00  | 20.0  |
| BD06838 | Magnesium, Total       | mg/L  | -0.00548   | 0.0462   | 5.00  | 6.45    | 6.43   | 4.93     | 4.25 to 5.75       | 99.8 | 70.0 to 130 | 0.311 | 20.0  |
| BD06839 | Manganese, Dissolved   | mg/L  | 0.0000167  | 0.00033  | 0.100 | 0.376   | 0.381  | 0.101    | 0.0850 to 0.115    | 94.0 | 70.0 to 130 | 1.32  | 20.0  |
| BD06838 | Manganese, Total       | mg/L  | 0.000200   | 0.00033  | 0.100 | 0.340   | 0.329  | 0.0980   | 0.0850 to 0.115    | 108  | 70.0 to 130 | 3.29  | 20.0  |
| BD06838 | Mercury, Total by CVAA | mg/L  | 2.000E-05  | 0.000500 | 0.004 | 0.00399 | 0.004  | 0.00403  | 0.00340 to 0.00460 | 99.8 | 70.0 to 130 | 0.250 | 20.0  |
| BD06839 | Molybdenum, Dissolved  | mg/L  | -0.000152  | 0.0100   | 0.2   | 0.197   | 0.194  | 0.195    | 0.170 to 0.230     | 98.5 | 70.0 to 130 | 1.53  | 20.0  |
| BD06838 | Molybdenum, Total      | mg/L  | -0.001     | 0.0100   | 0.2   | 0.200   | 0.201  | 0.201    | 0.170 to 0.230     | 100  | 70.0 to 130 | 0.499 | 20.0  |
| BD06839 | Potassium, Dissolved   | mg/L  | 0.00935    | 0.367    | 10.0  | 12.2    | 12.2   | 9.82     | 8.50 to 11.5       | 98.2 | 70.0 to 130 | 0.00  | 20.0  |
| BD06838 | Potassium, Total       | mg/L  | -0.00778   | 0.367    | 10.0  | 10.4    | 10.5   | 9.95     | 8.50 to 11.5       | 100  | 70.0 to 130 | 0.957 | 20.0  |
| BD06839 | Selenium, Dissolved    | mg/L  | 0.000102   | 0.00100  | 0.100 | 0.103   | 0.104  | 0.0997   | 0.0850 to 0.115    | 103  | 70.0 to 130 | 0.966 | 20.0  |
| BD06838 | Selenium, Total        | mg/L  | 0.0000454  | 0.00100  | 0.100 | 0.0988  | 0.0998 | 0.100    | 0.0850 to 0.115    | 98.8 | 70.0 to 130 | 1.01  | 20.0  |
| BD06839 | Silicon, Dissolved     | mg/L  | 0.000229   | 0.0440   | 1.00  | 10.2    | 10.2   | 0.997    | 0.850 to 1.15      | 94.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD06838 | Silicon, Total         | mg/L  | -0.000048  | 0.0440   | 1.00  | 5.47    | 5.48   | 1.02     | 0.850 to 1.15      | 107  | 70.0 to 130 | 0.183 | 20.0  |
| BD06839 | Sodium, Dissolved      | mg/L  | 0.0149     | 0.0880   | 5.00  | 78.3    | 78.6   | 5.23     | 4.25 to 5.75       | 76.0 | 70.0 to 130 | 0.382 | 20.0  |
| BD06838 | Sodium, Total          | mg/L  | 0.000332   | 0.0880   | 5.00  | 14.7    | 14.4   | 4.87     | 4.25 to 5.75       | 97.6 | 70.0 to 130 | 2.06  | 20.0  |
| BD06835 | Sulfate                | mg/L  | -0.0671    | 2.0      | 20.0  | 22.3    | 22.4   | 19.9     | 18.0 to 22.0       | 96.9 | 80.0 to 120 | 0.447 | 20.0  |
| BD06839 | Thallium, Dissolved    | mg/L  | -0.0000001 | 0.000147 | 0.100 | 0.102   | 0.0974 | 0.0992   | 0.0850 to 0.115    | 102  | 70.0 to 130 | 4.61  | 20.0  |
| BD06838 | Thallium, Total        | mg/L  | 0.0000054  | 0.000147 | 0.100 | 0.0974  | 0.0989 | 0.0978   | 0.0850 to 0.115    | 97.4 | 70.0 to 130 | 1.53  | 20.0  |
| BD06838 | Total Organic Carbon   | mg/L  | 0.0766     | 1.00     | 10.0  | 12.5    | 12.5   | 24.8     |                    | 99.2 | 80.0 to 120 | 0.00  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/4/23 11:11

**Customer ID:**

**Delivery Date:** 4/6/23 11:49

**Description:** Barry Ash Pond - MW-5V

**Laboratory ID Number:** BD06832

| Sample  | Analysis                  | Units      | MB   | MB<br>Limit | Spike | MS   | Sample<br>Duplicate | Standard | Standard<br>Limit | Rec | Limit       | Prec  | Prec<br>Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------|-------------------|-----|-------------|-------|---------------|
| BD06839 | Alkalinity to pH 4.5      | mg CaCO3/L |      |             |       |      | 167                 | 50.5     | 45.0 to 55.0      |     |             | 0.601 | 10.0          |
| BD06835 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.04 | 0.200       | 2.00  | 2.32 | 0.166               | 1.92     | 1.80 to 2.20      | 116 | 90.0 to 110 | 0.00  | 15.0          |
| BD06836 | Solids, Dissolved         | mg/L       | 1.00 | 25.0        |       |      | 222                 | 51.0     | 40.0 to 60.0      |     |             | 1.36  | 10.0          |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-5

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 12:02  
**Customer ID:**  
**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06833

| Name                                | Prepared     | Analyzed      | Vio Spec            | DF    | Results                             | Units | MDL      | RL         | Q |
|-------------------------------------|--------------|---------------|---------------------|-------|-------------------------------------|-------|----------|------------|---|
| <b>Analytical Method: EPA 200.7</b> |              |               | <b>Analyst: ABB</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Boron, Total                      | 4/7/23 14:10 | 4/11/23 12:07 |                     | 1.015 | 0.0381                              | mg/L  | 0.030000 | 0.1015     | J |
| * Calcium, Total                    | 4/7/23 14:10 | 4/11/23 12:07 |                     | 1.015 | 8.36                                | mg/L  | 0.070035 | 0.406      |   |
| * Iron, Total                       | 4/7/23 14:10 | 4/11/23 14:10 |                     | 101.5 | 45.3                                | mg/L  | 0.8120   | 4.06       |   |
| * Lithium, Total                    | 4/7/23 14:10 | 4/11/23 12:07 |                     | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |
| * Magnesium, Total                  | 4/7/23 14:10 | 4/11/23 12:07 |                     | 1.015 | 2.76                                | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Total                 | 4/7/23 14:10 | 4/11/23 12:07 |                     | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Total (calc.)             | 4/7/23 14:10 | 4/11/23 12:07 |                     | 1     | 24.8                                | mg/L  |          |            |   |
| * Silicon, Total                    | 4/7/23 14:10 | 4/11/23 12:07 |                     | 1.015 | 11.6                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Total                     | 4/7/23 14:10 | 4/11/23 12:07 |                     | 1.015 | 13.8                                | mg/L  | 0.04060  | 0.406      |   |
| <b>Analytical Method: EPA 200.7</b> |              |               | <b>Analyst: ABB</b> |       |                                     |       |          |            |   |
| * Boron, Dissolved                  | 4/7/23 11:45 | 4/12/23 12:05 |                     | 1.015 | 0.0373                              | mg/L  | 0.030000 | 0.1015     | J |
| * Calcium, Dissolved                | 4/7/23 11:45 | 4/12/23 12:05 |                     | 1.015 | 8.19                                | mg/L  | 0.070035 | 0.406      |   |
| * Iron, Dissolved                   | 4/7/23 11:45 | 4/12/23 14:11 |                     | 101.5 | 44.3                                | mg/L  | 0.8120   | 4.06       |   |
| * Lithium, Dissolved                | 4/7/23 11:45 | 4/12/23 12:05 |                     | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |
| * Magnesium, Dissolved              | 4/7/23 11:45 | 4/12/23 12:05 |                     | 1.015 | 2.80                                | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Dissolved             | 4/7/23 11:45 | 4/12/23 12:05 |                     | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Dissolved (calc.)         | 4/7/23 11:45 | 4/12/23 12:05 |                     | 1     | 24.4                                | mg/L  |          |            |   |
| * Silicon, Dissolved                | 4/7/23 11:45 | 4/12/23 12:05 |                     | 1.015 | 11.4                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Dissolved                 | 4/7/23 11:45 | 4/12/23 12:59 |                     | 1.015 | 13.7                                | mg/L  | 0.04060  | 0.406      |   |
| <b>Analytical Method: EPA 200.8</b> |              |               | <b>Analyst: DLJ</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Antimony, Total                   | 4/7/23 14:10 | 4/7/23 17:41  |                     | 1.015 | Not Detected                        | mg/L  | 0.000710 | 0.001015   | U |
| * Aluminum, Total                   | 4/7/23 14:10 | 4/7/23 17:41  |                     | 1.015 | Not Detected                        | mg/L  | 0.009135 | 0.05075    | U |
| * Arsenic, Total                    | 4/7/23 14:10 | 4/7/23 17:41  |                     | 1.015 | 0.0191                              | mg/L  | 0.000112 | 0.000203   |   |
| * Barium, Total                     | 4/7/23 14:10 | 4/7/23 17:41  |                     | 1.015 | 0.0842                              | mg/L  | 0.000508 | 0.001015   |   |
| * Beryllium, Total                  | 4/7/23 14:10 | 4/7/23 17:41  |                     | 1.015 | Not Detected                        | mg/L  | 0.000406 | 0.001015   | U |
| * Cadmium, Total                    | 4/7/23 14:10 | 4/7/23 17:41  |                     | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |
| * Chromium, Total                   | 4/7/23 14:10 | 4/7/23 17:41  |                     | 1.015 | 0.000894                            | mg/L  | 0.000203 | 0.001015   | J |
| * Cobalt, Total                     | 4/7/23 14:10 | 4/7/23 17:41  |                     | 1.015 | 0.00112                             | mg/L  | 0.000068 | 0.000203   |   |
| * Lead, Total                       | 4/7/23 14:10 | 4/7/23 17:41  |                     | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |
| * Manganese, Total                  | 4/7/23 14:10 | 4/7/23 17:41  |                     | 1.015 | 0.356                               | mg/L  | 0.000152 | 0.001015   |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-5

**Location Code:** WMWBARAP

**Collected:** 4/4/23 12:02

**Customer ID:**

**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06833

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/7/23 14:10  | 4/7/23 17:41        |          | 1.015 | 1.26         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/7/23 14:10  | 4/7/23 17:41        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/7/23 14:10  | 4/7/23 17:41        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:32        |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:32        |          | 1.015 | Not Detected | mg/L       | 0.009135 | 0.05075  | U |
| * Arsenic, Dissolved                   | 4/7/23 11:45  | 4/7/23 14:32        |          | 1.015 | 0.0194       | mg/L       | 0.000112 | 0.000203 |   |
| * Barium, Dissolved                    | 4/7/23 11:45  | 4/7/23 14:32        |          | 1.015 | 0.0822       | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/7/23 11:45  | 4/7/23 14:32        |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/7/23 11:45  | 4/7/23 14:32        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:32        |          | 1.015 | 0.000932     | mg/L       | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved                    | 4/7/23 11:45  | 4/7/23 14:32        |          | 1.015 | 0.00114      | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/7/23 11:45  | 4/7/23 14:32        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/7/23 11:45  | 4/7/23 14:32        |          | 1.015 | 0.360        | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/7/23 11:45  | 4/7/23 14:32        |          | 1.015 | 1.23         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:32        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:32        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/11/23 18:35 | 4/12/23 01:41       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/10/23 14:56 | 4/10/23 14:56       |          | 1     | Not Detected | mg/L as N  | 0.20     | 0.3      | U |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/18/23 10:05 | 4/18/23 11:07       |          | 1     | 87.9         | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/7/23 10:42  | 4/10/23 13:50       |          | 1     | 151          | mg/L       |          | 25       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/18/23 10:05 | 4/18/23 11:07       |          | 1     | 87.9         | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 4/18/23 10:05 | 4/18/23 11:07       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/12/23 15:05 | 4/12/23 15:05       |          | 1     | 7.46         | mg/L       | 1.00     | 2        |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-5

**Location Code:** WMWBARAP

**Collected:** 4/4/23 12:02

**Customer ID:**

**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06833

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Chloride                                   | 4/12/23 12:44 | 4/12/23 12:44       |          | 1  | 17.2    | mg/L  | 0.50 | 0.5   |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Fluoride                                   | 4/13/23 11:40 | 4/13/23 11:40       |          | 1  | 0.0631  | mg/L  | 0.06 | 0.125 | J  |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |         |       |      |       |    |
| * Sulfate                                    | 4/17/23 14:41 | 4/17/23 14:41       |          | 3  | 43.9    | mg/L  | 1.8  | 6     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: DKG</b> |          |    |         |       |      |       |    |
| Conductivity                                 | 4/4/23 11:59  | 4/4/23 11:59        |          |    | 259.08  | uS/cm |      |       | FA |
| pH   | 4/4/23 11:59  | 4/4/23 11:59        |          |    | 5.84    | SU    |      |       | FA |
| Temperature                                  | 4/4/23 11:59  | 4/4/23 11:59        |          |    | 22.61   | C     |      |       | FA |
| Turbidity                                    | 4/4/23 11:59  | 4/4/23 11:59        |          |    | 1.48    | NTU   |      |       | FA |
| Sulfide                                      | 4/4/23 11:59  | 4/4/23 11:59        |          |    | 0       | mg/L  |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/4/23 12:02  
**Customer ID:**  
**Delivery Date:** 4/6/23 11:49

**Description:** Barry Ash Pond - MW-5

**Laboratory ID Number:** BD06833

| Sample  | Analysis             | Units | MB         | MB       |       | Spike  | MS     | MSD    | Standard        |       | Rec         |       | Prec |
|---------|----------------------|-------|------------|----------|-------|--------|--------|--------|-----------------|-------|-------------|-------|------|
|         |                      |       |            | Limit    |       |        |        |        | Standard        | Limit | Rec         | Limit |      |
| BD06839 | Aluminum, Dissolved  | mg/L  | 0.0000353  | 0.0198   | 0.100 | 0.106  | 0.107  | 0.0999 | 0.0850 to 0.115 | 106   | 70.0 to 130 | 0.939 | 20.0 |
| BD06838 | Aluminum, Total      | mg/L  | 0.000609   | 0.0198   | 0.100 | 0.155  | 0.156  | 0.103  | 0.0850 to 0.115 | 111   | 70.0 to 130 | 0.643 | 20.0 |
| BD06839 | Antimony, Dissolved  | mg/L  | 0.000377   | 0.00100  | 0.100 | 0.0917 | 0.0904 | 0.0898 | 0.0850 to 0.115 | 91.7  | 70.0 to 130 | 1.43  | 20.0 |
| BD06838 | Antimony, Total      | mg/L  | 0.000237   | 0.00100  | 0.100 | 0.0909 | 0.0928 | 0.0867 | 0.0850 to 0.115 | 90.9  | 70.0 to 130 | 2.07  | 20.0 |
| BD06839 | Arsenic, Dissolved   | mg/L  | 0.0000113  | 0.000200 | 0.100 | 0.116  | 0.117  | 0.0990 | 0.0850 to 0.115 | 98.1  | 70.0 to 130 | 0.858 | 20.0 |
| BD06838 | Arsenic, Total       | mg/L  | 0.0000156  | 0.000200 | 0.100 | 0.0974 | 0.0996 | 0.0998 | 0.0850 to 0.115 | 96.5  | 70.0 to 130 | 2.23  | 20.0 |
| BD06839 | Barium, Dissolved    | mg/L  | 0.0000105  | 0.00100  | 0.100 | 0.149  | 0.147  | 0.0944 | 0.0850 to 0.115 | 92.7  | 70.0 to 130 | 1.35  | 20.0 |
| BD06838 | Barium, Total        | mg/L  | -0.0000063 | 0.00100  | 0.100 | 0.117  | 0.116  | 0.0923 | 0.0850 to 0.115 | 96.3  | 70.0 to 130 | 0.858 | 20.0 |
| BD06839 | Beryllium, Dissolved | mg/L  | 0.0000117  | 0.000880 | 0.100 | 0.0966 | 0.0920 | 0.0908 | 0.0850 to 0.115 | 96.6  | 70.0 to 130 | 4.88  | 20.0 |
| BD06838 | Beryllium, Total     | mg/L  | 0.0000000  | 0.000880 | 0.100 | 0.0961 | 0.0991 | 0.0944 | 0.0850 to 0.115 | 96.1  | 70.0 to 130 | 3.07  | 20.0 |
| BD06839 | Boron, Dissolved     | mg/L  | -0.000075  | 0.0650   | 1.00  | 1.08   | 1.08   | 1.00   | 0.850 to 1.15   | 102   | 70.0 to 130 | 0.00  | 20.0 |
| BD06838 | Boron, Total         | mg/L  | -0.000537  | 0.0650   | 1.00  | 1.06   | 1.07   | 1.02   | 0.850 to 1.15   | 102   | 70.0 to 130 | 0.939 | 20.0 |
| BD06839 | Cadmium, Dissolved   | mg/L  | 0.0000046  | 0.000147 | 0.100 | 0.0986 | 0.0955 | 0.0982 | 0.0850 to 0.115 | 98.6  | 70.0 to 130 | 3.19  | 20.0 |
| BD06838 | Cadmium, Total       | mg/L  | 0.0000043  | 0.000147 | 0.100 | 0.0946 | 0.0954 | 0.0962 | 0.0850 to 0.115 | 94.6  | 70.0 to 130 | 0.842 | 20.0 |
| BD06839 | Calcium, Dissolved   | mg/L  | -0.00493   | 0.152    | 5.00  | 14.4   | 14.3   | 4.94   | 4.25 to 5.75    | 94.6  | 70.0 to 130 | 0.697 | 20.0 |
| BD06838 | Calcium, Total       | mg/L  | -0.0178    | 0.152    | 5.00  | 9.85   | 10.1   | 5.00   | 4.25 to 5.75    | 99.2  | 70.0 to 130 | 2.51  | 20.0 |
| BD06837 | Chloride             | mg/L  | 0.0436     | 1.00     | 200   | 259    | 263    | 10.1   | 9.00 to 11.0    | 102   | 80.0 to 120 | 1.53  | 20.0 |
| BD06839 | Chromium, Dissolved  | mg/L  | -0.0000370 | 0.000440 | 0.100 | 0.0988 | 0.0992 | 0.0995 | 0.0850 to 0.115 | 95.8  | 70.0 to 130 | 0.404 | 20.0 |
| BD06838 | Chromium, Total      | mg/L  | -0.0000476 | 0.000440 | 0.100 | 0.0986 | 0.0969 | 0.0965 | 0.0850 to 0.115 | 98.1  | 70.0 to 130 | 1.74  | 20.0 |
| BD06839 | Cobalt, Dissolved    | mg/L  | -0.0000017 | 0.000147 | 0.100 | 0.101  | 0.101  | 0.101  | 0.0850 to 0.115 | 99.9  | 70.0 to 130 | 0.00  | 20.0 |
| BD06838 | Cobalt, Total        | mg/L  | 0.0000042  | 0.000147 | 0.100 | 0.101  | 0.0985 | 0.0997 | 0.0850 to 0.115 | 101   | 70.0 to 130 | 2.51  | 20.0 |
| BD06838 | Fluoride             | mg/L  | -0.00248   | 0.125    | 2.50  | 2.72   | 2.76   | 2.59   | 2.25 to 2.75    | 106   | 80.0 to 120 | 1.46  | 20.0 |
| BD06839 | Iron, Dissolved      | mg/L  | -0.00183   | 0.0176   | 0.2   | 32.1   | 32.1   | 0.195  | 0.170 to 0.230  | 50.0  | 70.0 to 130 | 0.00  | 20.0 |
| BD06838 | Iron, Total          | mg/L  | 0.000416   | 0.0176   | 0.2   | 14.9   | 14.1   | 0.200  | 0.170 to 0.230  | 450   | 70.0 to 130 | 5.52  | 20.0 |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/4/23 12:02

**Customer ID:**

**Delivery Date:** 4/6/23 11:49

**Description:** Barry Ash Pond - MW-5

**Laboratory ID Number:** BD06833

| Sample  | Analysis               | Units | MB         |          |       |         |        | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|--------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB         | Limit    | Spike | MS      | MSD    | Standard | Limit              | Rec  | Limit       |       |       |
| BD06839 | Lead, Dissolved        | mg/L  | 0.0000118  | 0.000147 | 0.100 | 0.100   | 0.0955 | 0.0971   | 0.0850 to 0.115    | 100  | 70.0 to 130 | 4.60  | 20.0  |
| BD06838 | Lead, Total            | mg/L  | 0.0000027  | 0.000147 | 0.100 | 0.0958  | 0.0961 | 0.0945   | 0.0850 to 0.115    | 95.8 | 70.0 to 130 | 0.313 | 20.0  |
| BD06839 | Lithium, Dissolved     | mg/L  | 0.000245   | 0.0154   | 0.200 | 0.203   | 0.199  | 0.195    | 0.170 to 0.230     | 102  | 70.0 to 130 | 1.99  | 20.0  |
| BD06838 | Lithium, Total         | mg/L  | -0.000701  | 0.0154   | 0.200 | 0.204   | 0.201  | 0.199    | 0.170 to 0.230     | 102  | 70.0 to 130 | 1.48  | 20.0  |
| BD06839 | Magnesium, Dissolved   | mg/L  | 0.000      | 0.0462   | 5.00  | 11.0    | 11.0   | 4.93     | 4.25 to 5.75       | 97.6 | 70.0 to 130 | 0.00  | 20.0  |
| BD06838 | Magnesium, Total       | mg/L  | -0.00548   | 0.0462   | 5.00  | 6.45    | 6.43   | 4.93     | 4.25 to 5.75       | 99.8 | 70.0 to 130 | 0.311 | 20.0  |
| BD06839 | Manganese, Dissolved   | mg/L  | 0.0000167  | 0.00033  | 0.100 | 0.376   | 0.381  | 0.101    | 0.0850 to 0.115    | 94.0 | 70.0 to 130 | 1.32  | 20.0  |
| BD06838 | Manganese, Total       | mg/L  | 0.000200   | 0.00033  | 0.100 | 0.340   | 0.329  | 0.0980   | 0.0850 to 0.115    | 108  | 70.0 to 130 | 3.29  | 20.0  |
| BD06838 | Mercury, Total by CVAA | mg/L  | 2.000E-05  | 0.000500 | 0.004 | 0.00399 | 0.004  | 0.00403  | 0.00340 to 0.00460 | 99.8 | 70.0 to 130 | 0.250 | 20.0  |
| BD06839 | Molybdenum, Dissolved  | mg/L  | -0.000152  | 0.0100   | 0.2   | 0.197   | 0.194  | 0.195    | 0.170 to 0.230     | 98.5 | 70.0 to 130 | 1.53  | 20.0  |
| BD06838 | Molybdenum, Total      | mg/L  | -0.001     | 0.0100   | 0.2   | 0.200   | 0.201  | 0.201    | 0.170 to 0.230     | 100  | 70.0 to 130 | 0.499 | 20.0  |
| BD06839 | Potassium, Dissolved   | mg/L  | 0.00935    | 0.367    | 10.0  | 12.2    | 12.2   | 9.82     | 8.50 to 11.5       | 98.2 | 70.0 to 130 | 0.00  | 20.0  |
| BD06838 | Potassium, Total       | mg/L  | -0.00778   | 0.367    | 10.0  | 10.4    | 10.5   | 9.95     | 8.50 to 11.5       | 100  | 70.0 to 130 | 0.957 | 20.0  |
| BD06839 | Selenium, Dissolved    | mg/L  | 0.000102   | 0.00100  | 0.100 | 0.103   | 0.104  | 0.0997   | 0.0850 to 0.115    | 103  | 70.0 to 130 | 0.966 | 20.0  |
| BD06838 | Selenium, Total        | mg/L  | 0.0000454  | 0.00100  | 0.100 | 0.0988  | 0.0998 | 0.100    | 0.0850 to 0.115    | 98.8 | 70.0 to 130 | 1.01  | 20.0  |
| BD06839 | Silicon, Dissolved     | mg/L  | 0.000229   | 0.0440   | 1.00  | 10.2    | 10.2   | 0.997    | 0.850 to 1.15      | 94.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD06838 | Silicon, Total         | mg/L  | -0.000048  | 0.0440   | 1.00  | 5.47    | 5.48   | 1.02     | 0.850 to 1.15      | 107  | 70.0 to 130 | 0.183 | 20.0  |
| BD06839 | Sodium, Dissolved      | mg/L  | 0.0149     | 0.0880   | 5.00  | 78.3    | 78.6   | 5.23     | 4.25 to 5.75       | 76.0 | 70.0 to 130 | 0.382 | 20.0  |
| BD06838 | Sodium, Total          | mg/L  | 0.000332   | 0.0880   | 5.00  | 14.7    | 14.4   | 4.87     | 4.25 to 5.75       | 97.6 | 70.0 to 130 | 2.06  | 20.0  |
| BD06835 | Sulfate                | mg/L  | -0.0671    | 2.0      | 20.0  | 22.3    | 22.4   | 19.9     | 18.0 to 22.0       | 96.9 | 80.0 to 120 | 0.447 | 20.0  |
| BD06839 | Thallium, Dissolved    | mg/L  | -0.0000001 | 0.000147 | 0.100 | 0.102   | 0.0974 | 0.0992   | 0.0850 to 0.115    | 102  | 70.0 to 130 | 4.61  | 20.0  |
| BD06838 | Thallium, Total        | mg/L  | 0.0000054  | 0.000147 | 0.100 | 0.0974  | 0.0989 | 0.0978   | 0.0850 to 0.115    | 97.4 | 70.0 to 130 | 1.53  | 20.0  |
| BD06838 | Total Organic Carbon   | mg/L  | 0.0766     | 1.00     | 10.0  | 12.5    | 12.5   | 24.8     |                    | 99.2 | 80.0 to 120 | 0.00  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/4/23 12:02

**Customer ID:**

**Delivery Date:** 4/6/23 11:49

**Description:** Barry Ash Pond - MW-5

**Laboratory ID Number:** BD06833

| Sample  | Analysis                  | Units      | MB   | MB Limit | Spike | MS   | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit   | Prec  | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|----------|----------------|-----|-------------|-------|------------|
| BD06839 | Alkalinity to pH 4.5      | mg CaCO3/L |      |          |       |      | 167              | 50.5     | 45.0 to 55.0   |     |             | 0.601 | 10.0       |
| BD06835 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.04 | 0.200    | 2.00  | 2.32 | 0.166            | 1.92     | 1.80 to 2.20   | 116 | 90.0 to 110 | 0.00  | 15.0       |
| BD06836 | Solids, Dissolved         | mg/L       | 1.00 | 25.0     |       |      | 222              | 51.0     | 40.0 to 60.0   |     |             | 1.36  | 10.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-4

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 13:01  
**Customer ID:**  
**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06834

| Name                                | Prepared     | Analyzed      | Vio Spec            | DF    | Results                             | Units | MDL      | RL         | Q |
|-------------------------------------|--------------|---------------|---------------------|-------|-------------------------------------|-------|----------|------------|---|
| <b>Analytical Method: EPA 200.7</b> |              |               | <b>Analyst: ABB</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Boron, Total                      | 4/7/23 14:10 | 4/11/23 12:10 |                     | 1.015 | Not Detected                        | mg/L  | 0.030000 | 0.1015     | U |
| * Calcium, Total                    | 4/7/23 14:10 | 4/11/23 12:10 |                     | 1.015 | 3.36                                | mg/L  | 0.070035 | 0.406      |   |
| * Iron, Total                       | 4/7/23 14:10 | 4/11/23 12:10 |                     | 1.015 | 0.0235                              | mg/L  | 0.008120 | 0.0406     | J |
| * Lithium, Total                    | 4/7/23 14:10 | 4/11/23 12:10 |                     | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |
| * Magnesium, Total                  | 4/7/23 14:10 | 4/11/23 12:10 |                     | 1.015 | 2.82                                | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Total                 | 4/7/23 14:10 | 4/11/23 12:10 |                     | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Total (calc.)             | 4/7/23 14:10 | 4/11/23 12:10 |                     | 1     | 14.7                                | mg/L  |          |            |   |
| * Silicon, Total                    | 4/7/23 14:10 | 4/11/23 12:10 |                     | 1.015 | 6.89                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Total                     | 4/7/23 14:10 | 4/11/23 12:10 |                     | 1.015 | 12.0                                | mg/L  | 0.04060  | 0.406      |   |
| <b>Analytical Method: EPA 200.7</b> |              |               | <b>Analyst: ABB</b> |       |                                     |       |          |            |   |
| * Boron, Dissolved                  | 4/7/23 11:45 | 4/12/23 12:08 |                     | 1.015 | Not Detected                        | mg/L  | 0.030000 | 0.1015     | U |
| * Calcium, Dissolved                | 4/7/23 11:45 | 4/12/23 12:08 |                     | 1.015 | 3.29                                | mg/L  | 0.070035 | 0.406      |   |
| * Iron, Dissolved                   | 4/7/23 11:45 | 4/12/23 12:08 |                     | 1.015 | Not Detected                        | mg/L  | 0.008120 | 0.0406     | U |
| * Lithium, Dissolved                | 4/7/23 11:45 | 4/12/23 12:08 |                     | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |
| * Magnesium, Dissolved              | 4/7/23 11:45 | 4/12/23 12:08 |                     | 1.015 | 2.86                                | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Dissolved             | 4/7/23 11:45 | 4/12/23 12:08 |                     | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Dissolved (calc.)         | 4/7/23 11:45 | 4/12/23 12:08 |                     | 1     | 14.7                                | mg/L  |          |            |   |
| * Silicon, Dissolved                | 4/7/23 11:45 | 4/12/23 12:08 |                     | 1.015 | 6.86                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Dissolved                 | 4/7/23 11:45 | 4/12/23 13:02 |                     | 1.015 | 12.2                                | mg/L  | 0.04060  | 0.406      |   |
| <b>Analytical Method: EPA 200.8</b> |              |               | <b>Analyst: DLJ</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Antimony, Total                   | 4/7/23 14:10 | 4/7/23 17:45  |                     | 1.015 | Not Detected                        | mg/L  | 0.000710 | 0.001015   | U |
| * Aluminum, Total                   | 4/7/23 14:10 | 4/7/23 17:45  |                     | 1.015 | 0.0404                              | mg/L  | 0.009135 | 0.05075    | J |
| * Arsenic, Total                    | 4/7/23 14:10 | 4/7/23 17:45  |                     | 1.015 | Not Detected                        | mg/L  | 0.000112 | 0.000203   | U |
| * Barium, Total                     | 4/7/23 14:10 | 4/7/23 17:45  |                     | 1.015 | 0.118                               | mg/L  | 0.000508 | 0.001015   |   |
| * Beryllium, Total                  | 4/7/23 14:10 | 4/7/23 17:45  |                     | 1.015 | 0.000432                            | mg/L  | 0.000406 | 0.001015   | J |
| * Cadmium, Total                    | 4/7/23 14:10 | 4/7/23 17:45  |                     | 1.015 | 0.0000896                           | mg/L  | 0.000068 | 0.000203   | J |
| * Chromium, Total                   | 4/7/23 14:10 | 4/7/23 17:45  |                     | 1.015 | 0.000444                            | mg/L  | 0.000203 | 0.001015   | J |
| * Cobalt, Total                     | 4/7/23 14:10 | 4/7/23 17:45  |                     | 1.015 | 0.00310                             | mg/L  | 0.000068 | 0.000203   |   |
| * Lead, Total                       | 4/7/23 14:10 | 4/7/23 17:45  |                     | 1.015 | 0.0000851                           | mg/L  | 0.000068 | 0.000203   | J |
| * Manganese, Total                  | 4/7/23 14:10 | 4/7/23 17:45  |                     | 1.015 | 0.0219                              | mg/L  | 0.000152 | 0.001015   |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-4

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 13:01  
**Customer ID:**  
**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06834

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/7/23 14:10  | 4/7/23 17:45        |          | 1.015 | 1.93         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/7/23 14:10  | 4/7/23 17:45        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/7/23 14:10  | 4/7/23 17:45        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:36        |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:36        |          | 1.015 | 0.0272       | mg/L       | 0.009135 | 0.05075  | J |
| * Arsenic, Dissolved                   | 4/7/23 11:45  | 4/7/23 14:36        |          | 1.015 | Not Detected | mg/L       | 0.000112 | 0.000203 | U |
| * Barium, Dissolved                    | 4/7/23 11:45  | 4/7/23 14:36        |          | 1.015 | 0.117        | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/7/23 11:45  | 4/7/23 14:36        |          | 1.015 | 0.000499     | mg/L       | 0.000406 | 0.001015 | J |
| * Cadmium, Dissolved                   | 4/7/23 11:45  | 4/7/23 14:36        |          | 1.015 | 0.000165     | mg/L       | 0.000068 | 0.000203 | J |
| * Chromium, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:36        |          | 1.015 | 0.000434     | mg/L       | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved                    | 4/7/23 11:45  | 4/7/23 14:36        |          | 1.015 | 0.00317      | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/7/23 11:45  | 4/7/23 14:36        |          | 1.015 | 0.0000834    | mg/L       | 0.000068 | 0.000203 | J |
| * Manganese, Dissolved                 | 4/7/23 11:45  | 4/7/23 14:36        |          | 1.015 | 0.0222       | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/7/23 11:45  | 4/7/23 14:36        |          | 1.015 | 1.92         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:36        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:36        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/11/23 18:35 | 4/12/23 01:45       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/10/23 14:58 | 4/10/23 14:58       |          | 1     | Not Detected | mg/L as N  | 0.20     | 0.3      | U |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/18/23 10:05 | 4/18/23 12:08       |          | 1     | 2.04         | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/7/23 10:42  | 4/10/23 13:50       |          | 1     | 76.7         | mg/L       |          | 25       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/18/23 10:05 | 4/18/23 12:08       |          | 1     | 2.04         | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 4/18/23 10:05 | 4/18/23 12:08       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/12/23 15:21 | 4/12/23 15:21       |          | 1     | Not Detected | mg/L       | 1.00     | 2        | U |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-4

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 13:01  
**Customer ID:**  
**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06834

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results      | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|--------------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: CES</b> |          |    |              |       |      |       |    |
| * Chloride                                   | 4/12/23 13:02 | 4/12/23 13:02       |          | 5  | 32.4         | mg/L  | 2.50 | 2.5   |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: CES</b> |          |    |              |       |      |       |    |
| * Fluoride                                   | 4/13/23 11:41 | 4/13/23 11:41       |          | 1  | Not Detected | mg/L  | 0.06 | 0.125 | U  |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |              |       |      |       |    |
| * Sulfate                                    | 4/17/23 14:34 | 4/17/23 14:34       |          | 1  | 2.33         | mg/L  | 0.6  | 2     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: DKG</b> |          |    |              |       |      |       |    |
| Conductivity                                 | 4/4/23 12:58  | 4/4/23 12:58        |          |    | 121.44       | uS/cm |      |       | FA |
| pH   | 4/4/23 12:58  | 4/4/23 12:58        |          |    | 4.55         | SU    |      |       | FA |
| Temperature                                  | 4/4/23 12:58  | 4/4/23 12:58        |          |    | 22.88        | C     |      |       | FA |
| Turbidity                                    | 4/4/23 12:58  | 4/4/23 12:58        |          |    | 3.02         | NTU   |      |       | FA |
| Sulfide                                      | 4/4/23 12:58  | 4/4/23 12:58        |          |    | 0            | mg/L  |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/4/23 13:01  
**Customer ID:**  
**Delivery Date:** 4/6/23 11:49

**Description:** Barry Ash Pond - MW-4

**Laboratory ID Number:** BD06834

| Sample  | Analysis             | Units | MB         | MB       |       |        |        | Standard |                 | Rec  |             | Prec  | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
|         |                      |       |            | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec  | Limit       |       |       |
| BD06839 | Aluminum, Dissolved  | mg/L  | 0.0000353  | 0.0198   | 0.100 | 0.106  | 0.107  | 0.0999   | 0.0850 to 0.115 | 106  | 70.0 to 130 | 0.939 | 20.0  |
| BD06838 | Aluminum, Total      | mg/L  | 0.000609   | 0.0198   | 0.100 | 0.155  | 0.156  | 0.103    | 0.0850 to 0.115 | 111  | 70.0 to 130 | 0.643 | 20.0  |
| BD06839 | Antimony, Dissolved  | mg/L  | 0.000377   | 0.00100  | 0.100 | 0.0917 | 0.0904 | 0.0898   | 0.0850 to 0.115 | 91.7 | 70.0 to 130 | 1.43  | 20.0  |
| BD06838 | Antimony, Total      | mg/L  | 0.000237   | 0.00100  | 0.100 | 0.0909 | 0.0928 | 0.0867   | 0.0850 to 0.115 | 90.9 | 70.0 to 130 | 2.07  | 20.0  |
| BD06839 | Arsenic, Dissolved   | mg/L  | 0.0000113  | 0.000200 | 0.100 | 0.116  | 0.117  | 0.0990   | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 0.858 | 20.0  |
| BD06838 | Arsenic, Total       | mg/L  | 0.0000156  | 0.000200 | 0.100 | 0.0974 | 0.0996 | 0.0998   | 0.0850 to 0.115 | 96.5 | 70.0 to 130 | 2.23  | 20.0  |
| BD06839 | Barium, Dissolved    | mg/L  | 0.0000105  | 0.00100  | 0.100 | 0.149  | 0.147  | 0.0944   | 0.0850 to 0.115 | 92.7 | 70.0 to 130 | 1.35  | 20.0  |
| BD06838 | Barium, Total        | mg/L  | -0.0000063 | 0.00100  | 0.100 | 0.117  | 0.116  | 0.0923   | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 0.858 | 20.0  |
| BD06839 | Beryllium, Dissolved | mg/L  | 0.0000117  | 0.000880 | 0.100 | 0.0966 | 0.0920 | 0.0908   | 0.0850 to 0.115 | 96.6 | 70.0 to 130 | 4.88  | 20.0  |
| BD06838 | Beryllium, Total     | mg/L  | 0.0000000  | 0.000880 | 0.100 | 0.0961 | 0.0991 | 0.0944   | 0.0850 to 0.115 | 96.1 | 70.0 to 130 | 3.07  | 20.0  |
| BD06839 | Boron, Dissolved     | mg/L  | -0.000075  | 0.0650   | 1.00  | 1.08   | 1.08   | 1.00     | 0.850 to 1.15   | 102  | 70.0 to 130 | 0.00  | 20.0  |
| BD06838 | Boron, Total         | mg/L  | -0.000537  | 0.0650   | 1.00  | 1.06   | 1.07   | 1.02     | 0.850 to 1.15   | 102  | 70.0 to 130 | 0.939 | 20.0  |
| BD06839 | Cadmium, Dissolved   | mg/L  | 0.0000046  | 0.000147 | 0.100 | 0.0986 | 0.0955 | 0.0982   | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 3.19  | 20.0  |
| BD06838 | Cadmium, Total       | mg/L  | 0.0000043  | 0.000147 | 0.100 | 0.0946 | 0.0954 | 0.0962   | 0.0850 to 0.115 | 94.6 | 70.0 to 130 | 0.842 | 20.0  |
| BD06839 | Calcium, Dissolved   | mg/L  | -0.00493   | 0.152    | 5.00  | 14.4   | 14.3   | 4.94     | 4.25 to 5.75    | 94.6 | 70.0 to 130 | 0.697 | 20.0  |
| BD06838 | Calcium, Total       | mg/L  | -0.0178    | 0.152    | 5.00  | 9.85   | 10.1   | 5.00     | 4.25 to 5.75    | 99.2 | 70.0 to 130 | 2.51  | 20.0  |
| BD06837 | Chloride             | mg/L  | 0.0436     | 1.00     | 200   | 259    | 263    | 10.1     | 9.00 to 11.0    | 102  | 80.0 to 120 | 1.53  | 20.0  |
| BD06839 | Chromium, Dissolved  | mg/L  | -0.0000370 | 0.000440 | 0.100 | 0.0988 | 0.0992 | 0.0995   | 0.0850 to 0.115 | 95.8 | 70.0 to 130 | 0.404 | 20.0  |
| BD06838 | Chromium, Total      | mg/L  | -0.0000476 | 0.000440 | 0.100 | 0.0986 | 0.0969 | 0.0965   | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 1.74  | 20.0  |
| BD06839 | Cobalt, Dissolved    | mg/L  | -0.0000017 | 0.000147 | 0.100 | 0.101  | 0.101  | 0.101    | 0.0850 to 0.115 | 99.9 | 70.0 to 130 | 0.00  | 20.0  |
| BD06838 | Cobalt, Total        | mg/L  | 0.0000042  | 0.000147 | 0.100 | 0.101  | 0.0985 | 0.0997   | 0.0850 to 0.115 | 101  | 70.0 to 130 | 2.51  | 20.0  |
| BD06838 | Fluoride             | mg/L  | -0.00248   | 0.125    | 2.50  | 2.72   | 2.76   | 2.59     | 2.25 to 2.75    | 106  | 80.0 to 120 | 1.46  | 20.0  |
| BD06839 | Iron, Dissolved      | mg/L  | -0.00183   | 0.0176   | 0.2   | 32.1   | 32.1   | 0.195    | 0.170 to 0.230  | 50.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD06838 | Iron, Total          | mg/L  | 0.000416   | 0.0176   | 0.2   | 14.9   | 14.1   | 0.200    | 0.170 to 0.230  | 450  | 70.0 to 130 | 5.52  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/4/23 13:01

**Customer ID:**

**Delivery Date:** 4/6/23 11:49

**Description:** Barry Ash Pond - MW-4

**Laboratory ID Number:** BD06834

| Sample  | Analysis               | Units | MB         | MB       |       | Spike   | MS     | MSD     | Standard           |       | Rec         |       | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|--------|---------|--------------------|-------|-------------|-------|------|-------|
|         |                        |       |            | Limit    |       |         |        |         | Standard           | Limit | Rec         | Limit |      |       |
| BD06839 | Lead, Dissolved        | mg/L  | 0.0000118  | 0.000147 | 0.100 | 0.100   | 0.0955 | 0.0971  | 0.0850 to 0.115    | 100   | 70.0 to 130 | 4.60  | 20.0 |       |
| BD06838 | Lead, Total            | mg/L  | 0.0000027  | 0.000147 | 0.100 | 0.0958  | 0.0961 | 0.0945  | 0.0850 to 0.115    | 95.8  | 70.0 to 130 | 0.313 | 20.0 |       |
| BD06839 | Lithium, Dissolved     | mg/L  | 0.000245   | 0.0154   | 0.200 | 0.203   | 0.199  | 0.195   | 0.170 to 0.230     | 102   | 70.0 to 130 | 1.99  | 20.0 |       |
| BD06838 | Lithium, Total         | mg/L  | -0.000701  | 0.0154   | 0.200 | 0.204   | 0.201  | 0.199   | 0.170 to 0.230     | 102   | 70.0 to 130 | 1.48  | 20.0 |       |
| BD06839 | Magnesium, Dissolved   | mg/L  | 0.000      | 0.0462   | 5.00  | 11.0    | 11.0   | 4.93    | 4.25 to 5.75       | 97.6  | 70.0 to 130 | 0.00  | 20.0 |       |
| BD06838 | Magnesium, Total       | mg/L  | -0.00548   | 0.0462   | 5.00  | 6.45    | 6.43   | 4.93    | 4.25 to 5.75       | 99.8  | 70.0 to 130 | 0.311 | 20.0 |       |
| BD06839 | Manganese, Dissolved   | mg/L  | 0.0000167  | 0.00033  | 0.100 | 0.376   | 0.381  | 0.101   | 0.0850 to 0.115    | 94.0  | 70.0 to 130 | 1.32  | 20.0 |       |
| BD06838 | Manganese, Total       | mg/L  | 0.000200   | 0.00033  | 0.100 | 0.340   | 0.329  | 0.0980  | 0.0850 to 0.115    | 108   | 70.0 to 130 | 3.29  | 20.0 |       |
| BD06838 | Mercury, Total by CVAA | mg/L  | 2.000E-05  | 0.000500 | 0.004 | 0.00399 | 0.004  | 0.00403 | 0.00340 to 0.00460 | 99.8  | 70.0 to 130 | 0.250 | 20.0 |       |
| BD06839 | Molybdenum, Dissolved  | mg/L  | -0.000152  | 0.0100   | 0.2   | 0.197   | 0.194  | 0.195   | 0.170 to 0.230     | 98.5  | 70.0 to 130 | 1.53  | 20.0 |       |
| BD06838 | Molybdenum, Total      | mg/L  | -0.001     | 0.0100   | 0.2   | 0.200   | 0.201  | 0.201   | 0.170 to 0.230     | 100   | 70.0 to 130 | 0.499 | 20.0 |       |
| BD06839 | Potassium, Dissolved   | mg/L  | 0.00935    | 0.367    | 10.0  | 12.2    | 12.2   | 9.82    | 8.50 to 11.5       | 98.2  | 70.0 to 130 | 0.00  | 20.0 |       |
| BD06838 | Potassium, Total       | mg/L  | -0.00778   | 0.367    | 10.0  | 10.4    | 10.5   | 9.95    | 8.50 to 11.5       | 100   | 70.0 to 130 | 0.957 | 20.0 |       |
| BD06839 | Selenium, Dissolved    | mg/L  | 0.000102   | 0.00100  | 0.100 | 0.103   | 0.104  | 0.0997  | 0.0850 to 0.115    | 103   | 70.0 to 130 | 0.966 | 20.0 |       |
| BD06838 | Selenium, Total        | mg/L  | 0.0000454  | 0.00100  | 0.100 | 0.0988  | 0.0998 | 0.100   | 0.0850 to 0.115    | 98.8  | 70.0 to 130 | 1.01  | 20.0 |       |
| BD06839 | Silicon, Dissolved     | mg/L  | 0.000229   | 0.0440   | 1.00  | 10.2    | 10.2   | 0.997   | 0.850 to 1.15      | 94.0  | 70.0 to 130 | 0.00  | 20.0 |       |
| BD06838 | Silicon, Total         | mg/L  | -0.000048  | 0.0440   | 1.00  | 5.47    | 5.48   | 1.02    | 0.850 to 1.15      | 107   | 70.0 to 130 | 0.183 | 20.0 |       |
| BD06839 | Sodium, Dissolved      | mg/L  | 0.0149     | 0.0880   | 5.00  | 78.3    | 78.6   | 5.23    | 4.25 to 5.75       | 76.0  | 70.0 to 130 | 0.382 | 20.0 |       |
| BD06838 | Sodium, Total          | mg/L  | 0.000332   | 0.0880   | 5.00  | 14.7    | 14.4   | 4.87    | 4.25 to 5.75       | 97.6  | 70.0 to 130 | 2.06  | 20.0 |       |
| BD06835 | Sulfate                | mg/L  | -0.0671    | 2.0      | 20.0  | 22.3    | 22.4   | 19.9    | 18.0 to 22.0       | 96.9  | 80.0 to 120 | 0.447 | 20.0 |       |
| BD06839 | Thallium, Dissolved    | mg/L  | -0.0000001 | 0.000147 | 0.100 | 0.102   | 0.0974 | 0.0992  | 0.0850 to 0.115    | 102   | 70.0 to 130 | 4.61  | 20.0 |       |
| BD06838 | Thallium, Total        | mg/L  | 0.0000054  | 0.000147 | 0.100 | 0.0974  | 0.0989 | 0.0978  | 0.0850 to 0.115    | 97.4  | 70.0 to 130 | 1.53  | 20.0 |       |
| BD06838 | Total Organic Carbon   | mg/L  | 0.0766     | 1.00     | 10.0  | 12.5    | 12.5   | 24.8    |                    | 99.2  | 80.0 to 120 | 0.00  | 20.0 |       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/4/23 13:01

**Customer ID:**

**Delivery Date:** 4/6/23 11:49

**Description:** Barry Ash Pond - MW-4

**Laboratory ID Number:** BD06834

| Sample  | Analysis                  | Units      | MB   | MB<br>Limit | Spike | MS   | Sample<br>Duplicate | Standard | Standard<br>Limit | Rec | Rec<br>Limit | Prec  | Prec<br>Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------|-------------------|-----|--------------|-------|---------------|
| BD06839 | Alkalinity to pH 4.5      | mg CaCO3/L |      |             |       |      | 167                 | 50.5     | 45.0 to 55.0      |     |              | 0.601 | 10.0          |
| BD06835 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.04 | 0.200       | 2.00  | 2.32 | 0.166               | 1.92     | 1.80 to 2.20      | 116 | 90.0 to 110  | 0.00  | 15.0          |
| BD06836 | Solids, Dissolved         | mg/L       | 1.00 | 25.0        |       |      | 222                 | 51.0     | 40.0 to 60.0      |     |              | 1.36  | 10.0          |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-3

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 14:14  
**Customer ID:**  
**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06835

| Name                                | Prepared     | Analyzed      | Vio Spec            | DF    | Results      | Units                               | MDL      | RL         | Q |
|-------------------------------------|--------------|---------------|---------------------|-------|--------------|-------------------------------------|----------|------------|---|
| <b>Analytical Method: EPA 200.7</b> |              |               | <b>Analyst: ABB</b> |       |              | <b>Preparation Method: EPA 1638</b> |          |            |   |
| * Boron, Total                      | 4/7/23 14:10 | 4/11/23 12:14 |                     | 1.015 | 0.0468       | mg/L                                | 0.030000 | 0.1015     | J |
| * Calcium, Total                    | 4/7/23 14:10 | 4/11/23 12:14 |                     | 1.015 | 1.29         | mg/L                                | 0.070035 | 0.406      |   |
| * Iron, Total                       | 4/7/23 14:10 | 4/11/23 14:13 |                     | 10.15 | 4.13         | mg/L                                | 0.08120  | 0.406      |   |
| * Lithium, Total                    | 4/7/23 14:10 | 4/11/23 12:14 |                     | 1.015 | Not Detected | mg/L                                | 0.007105 | 0.01999956 | U |
| * Magnesium, Total                  | 4/7/23 14:10 | 4/11/23 12:14 |                     | 1.015 | 0.762        | mg/L                                | 0.021315 | 0.406      |   |
| * Molybdenum, Total                 | 4/7/23 14:10 | 4/11/23 12:14 |                     | 1.015 | Not Detected | mg/L                                | 0.005075 | 0.01015    | U |
| * Silica, Total (calc.)             | 4/7/23 14:10 | 4/11/23 12:14 |                     | 1     | 15.3         | mg/L                                |          |            |   |
| * Silicon, Total                    | 4/7/23 14:10 | 4/11/23 12:14 |                     | 1.015 | 7.16         | mg/L                                | 0.02030  | 0.25375    |   |
| * Sodium, Total                     | 4/7/23 14:10 | 4/11/23 12:14 |                     | 1.015 | 5.42         | mg/L                                | 0.04060  | 0.406      |   |
| <b>Analytical Method: EPA 200.7</b> |              |               | <b>Analyst: ABB</b> |       |              |                                     |          |            |   |
| * Boron, Dissolved                  | 4/7/23 11:45 | 4/12/23 12:11 |                     | 1.015 | 0.0458       | mg/L                                | 0.030000 | 0.1015     | J |
| * Calcium, Dissolved                | 4/7/23 11:45 | 4/12/23 12:11 |                     | 1.015 | 1.27         | mg/L                                | 0.070035 | 0.406      |   |
| * Iron, Dissolved                   | 4/7/23 11:45 | 4/12/23 12:11 |                     | 1.015 | 3.88         | mg/L                                | 0.008120 | 0.0406     |   |
| * Lithium, Dissolved                | 4/7/23 11:45 | 4/12/23 12:11 |                     | 1.015 | Not Detected | mg/L                                | 0.007105 | 0.01999956 | U |
| * Magnesium, Dissolved              | 4/7/23 11:45 | 4/12/23 12:11 |                     | 1.015 | 0.757        | mg/L                                | 0.021315 | 0.406      |   |
| * Molybdenum, Dissolved             | 4/7/23 11:45 | 4/12/23 12:11 |                     | 1.015 | Not Detected | mg/L                                | 0.005075 | 0.01015    | U |
| * Silica, Dissolved (calc.)         | 4/7/23 11:45 | 4/12/23 12:11 |                     | 1     | 15.0         | mg/L                                |          |            |   |
| * Silicon, Dissolved                | 4/7/23 11:45 | 4/12/23 12:11 |                     | 1.015 | 7.01         | mg/L                                | 0.02030  | 0.25375    |   |
| * Sodium, Dissolved                 | 4/7/23 11:45 | 4/12/23 13:05 |                     | 1.015 | 5.43         | mg/L                                | 0.04060  | 0.406      |   |
| <b>Analytical Method: EPA 200.8</b> |              |               | <b>Analyst: DLJ</b> |       |              | <b>Preparation Method: EPA 1638</b> |          |            |   |
| * Antimony, Total                   | 4/7/23 14:10 | 4/7/23 17:49  |                     | 1.015 | Not Detected | mg/L                                | 0.000710 | 0.001015   | U |
| * Aluminum, Total                   | 4/7/23 14:10 | 4/7/23 17:49  |                     | 1.015 | 0.0187       | mg/L                                | 0.009135 | 0.05075    | J |
| * Arsenic, Total                    | 4/7/23 14:10 | 4/7/23 17:49  |                     | 1.015 | 0.000455     | mg/L                                | 0.000112 | 0.000203   |   |
| * Barium, Total                     | 4/7/23 14:10 | 4/7/23 17:49  |                     | 1.015 | 0.0271       | mg/L                                | 0.000508 | 0.001015   |   |
| * Beryllium, Total                  | 4/7/23 14:10 | 4/7/23 17:49  |                     | 1.015 | Not Detected | mg/L                                | 0.000406 | 0.001015   | U |
| * Cadmium, Total                    | 4/7/23 14:10 | 4/7/23 17:49  |                     | 1.015 | Not Detected | mg/L                                | 0.000068 | 0.000203   | U |
| * Chromium, Total                   | 4/7/23 14:10 | 4/7/23 17:49  |                     | 1.015 | 0.000530     | mg/L                                | 0.000203 | 0.001015   | J |
| * Cobalt, Total                     | 4/7/23 14:10 | 4/7/23 17:49  |                     | 1.015 | 0.000108     | mg/L                                | 0.000068 | 0.000203   | J |
| * Lead, Total                       | 4/7/23 14:10 | 4/7/23 17:49  |                     | 1.015 | Not Detected | mg/L                                | 0.000068 | 0.000203   | U |
| * Manganese, Total                  | 4/7/23 14:10 | 4/7/23 17:49  |                     | 1.015 | 0.0279       | mg/L                                | 0.000152 | 0.001015   |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Nitrate-Nitrite matrix spike recovery and/or matrix spike duplicate recovery passes using values below the detection limit.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-3

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 14:14  
**Customer ID:**  
**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06835

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/7/23 14:10  | 4/7/23 17:49        |          | 1.015 | 0.984        | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/7/23 14:10  | 4/7/23 17:49        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/7/23 14:10  | 4/7/23 17:49        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:40        |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:40        |          | 1.015 | Not Detected | mg/L       | 0.009135 | 0.05075  | U |
| * Arsenic, Dissolved                   | 4/7/23 11:45  | 4/7/23 14:40        |          | 1.015 | 0.000366     | mg/L       | 0.000112 | 0.000203 |   |
| * Barium, Dissolved                    | 4/7/23 11:45  | 4/7/23 14:40        |          | 1.015 | 0.0255       | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/7/23 11:45  | 4/7/23 14:40        |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/7/23 11:45  | 4/7/23 14:40        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:40        |          | 1.015 | 0.000414     | mg/L       | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved                    | 4/7/23 11:45  | 4/7/23 14:40        |          | 1.015 | 0.000108     | mg/L       | 0.000068 | 0.000203 | J |
| * Lead, Dissolved                      | 4/7/23 11:45  | 4/7/23 14:40        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/7/23 11:45  | 4/7/23 14:40        |          | 1.015 | 0.0276       | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/7/23 11:45  | 4/7/23 14:40        |          | 1.015 | 0.904        | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:40        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:40        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/11/23 18:35 | 4/12/23 01:49       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/10/23 15:00 | 4/10/23 15:00       |          | 1     | Not Detected | mg/L as N  | 0.20     | 0.3      | U |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/18/23 10:05 | 4/18/23 12:08       |          | 1     | 11.4         | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/7/23 10:42  | 4/10/23 13:50       |          | 1     | 43.3         | mg/L       |          | 25       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/18/23 10:05 | 4/18/23 12:08       |          | 1     | 11.4         | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 4/18/23 10:05 | 4/18/23 12:08       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/12/23 15:36 | 4/12/23 15:36       |          | 1     | Not Detected | mg/L       | 1.00     | 2        | U |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Nitrate-Nitrite matrix spike recovery and/or matrix spike duplicate recovery passes using values below the detection limit.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-3

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 14:14  
**Customer ID:**  
**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06835

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results      | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|--------------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: CES</b> |          |    |              |       |      |       |    |
| * Chloride                                   | 4/12/23 12:46 | 4/12/23 12:46       |          | 1  | 9.66         | mg/L  | 0.50 | 0.5   |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: CES</b> |          |    |              |       |      |       |    |
| * Fluoride                                   | 4/13/23 11:42 | 4/13/23 11:42       |          | 1  | Not Detected | mg/L  | 0.06 | 0.125 | U  |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |              |       |      |       |    |
| * Sulfate                                    | 4/17/23 14:36 | 4/17/23 14:36       |          | 1  | 2.92         | mg/L  | 0.6  | 2     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: DKG</b> |          |    |              |       |      |       |    |
| Conductivity                                 | 4/4/23 14:11  | 4/4/23 14:11        |          |    | 59.36        | uS/cm |      |       | FA |
| pH   | 4/4/23 14:11  | 4/4/23 14:11        |          |    | 5.31         | SU    |      |       | FA |
| Temperature                                  | 4/4/23 14:11  | 4/4/23 14:11        |          |    | 22.13        | C     |      |       | FA |
| Turbidity                                    | 4/4/23 14:11  | 4/4/23 14:11        |          |    | 1.69         | NTU   |      |       | FA |
| Sulfide                                      | 4/4/23 14:11  | 4/4/23 14:11        |          |    | 0            | mg/L  |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Nitrate-Nitrite matrix spike recovery and/or matrix spike duplicate recovery passes using values below the detection limit.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/4/23 14:14  
**Customer ID:**  
**Delivery Date:** 4/6/23 11:49

**Description:** Barry Ash Pond - MW-3

**Laboratory ID Number:** BD06835

| Sample  | Analysis             | Units | MB         | MB       |       |        |        | Standard |                 | Rec  |             | Prec  | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
|         |                      |       |            | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec  | Limit       |       |       |
| BD06839 | Aluminum, Dissolved  | mg/L  | 0.0000353  | 0.0198   | 0.100 | 0.106  | 0.107  | 0.0999   | 0.0850 to 0.115 | 106  | 70.0 to 130 | 0.939 | 20.0  |
| BD06838 | Aluminum, Total      | mg/L  | 0.000609   | 0.0198   | 0.100 | 0.155  | 0.156  | 0.103    | 0.0850 to 0.115 | 111  | 70.0 to 130 | 0.643 | 20.0  |
| BD06839 | Antimony, Dissolved  | mg/L  | 0.000377   | 0.00100  | 0.100 | 0.0917 | 0.0904 | 0.0898   | 0.0850 to 0.115 | 91.7 | 70.0 to 130 | 1.43  | 20.0  |
| BD06838 | Antimony, Total      | mg/L  | 0.000237   | 0.00100  | 0.100 | 0.0909 | 0.0928 | 0.0867   | 0.0850 to 0.115 | 90.9 | 70.0 to 130 | 2.07  | 20.0  |
| BD06839 | Arsenic, Dissolved   | mg/L  | 0.0000113  | 0.000200 | 0.100 | 0.116  | 0.117  | 0.0990   | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 0.858 | 20.0  |
| BD06838 | Arsenic, Total       | mg/L  | 0.0000156  | 0.000200 | 0.100 | 0.0974 | 0.0996 | 0.0998   | 0.0850 to 0.115 | 96.5 | 70.0 to 130 | 2.23  | 20.0  |
| BD06839 | Barium, Dissolved    | mg/L  | 0.0000105  | 0.00100  | 0.100 | 0.149  | 0.147  | 0.0944   | 0.0850 to 0.115 | 92.7 | 70.0 to 130 | 1.35  | 20.0  |
| BD06838 | Barium, Total        | mg/L  | -0.0000063 | 0.00100  | 0.100 | 0.117  | 0.116  | 0.0923   | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 0.858 | 20.0  |
| BD06839 | Beryllium, Dissolved | mg/L  | 0.0000117  | 0.000880 | 0.100 | 0.0966 | 0.0920 | 0.0908   | 0.0850 to 0.115 | 96.6 | 70.0 to 130 | 4.88  | 20.0  |
| BD06838 | Beryllium, Total     | mg/L  | 0.0000000  | 0.000880 | 0.100 | 0.0961 | 0.0991 | 0.0944   | 0.0850 to 0.115 | 96.1 | 70.0 to 130 | 3.07  | 20.0  |
| BD06839 | Boron, Dissolved     | mg/L  | -0.000075  | 0.0650   | 1.00  | 1.08   | 1.08   | 1.00     | 0.850 to 1.15   | 102  | 70.0 to 130 | 0.00  | 20.0  |
| BD06838 | Boron, Total         | mg/L  | -0.000537  | 0.0650   | 1.00  | 1.06   | 1.07   | 1.02     | 0.850 to 1.15   | 102  | 70.0 to 130 | 0.939 | 20.0  |
| BD06839 | Cadmium, Dissolved   | mg/L  | 0.0000046  | 0.000147 | 0.100 | 0.0986 | 0.0955 | 0.0982   | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 3.19  | 20.0  |
| BD06838 | Cadmium, Total       | mg/L  | 0.0000043  | 0.000147 | 0.100 | 0.0946 | 0.0954 | 0.0962   | 0.0850 to 0.115 | 94.6 | 70.0 to 130 | 0.842 | 20.0  |
| BD06839 | Calcium, Dissolved   | mg/L  | -0.00493   | 0.152    | 5.00  | 14.4   | 14.3   | 4.94     | 4.25 to 5.75    | 94.6 | 70.0 to 130 | 0.697 | 20.0  |
| BD06838 | Calcium, Total       | mg/L  | -0.0178    | 0.152    | 5.00  | 9.85   | 10.1   | 5.00     | 4.25 to 5.75    | 99.2 | 70.0 to 130 | 2.51  | 20.0  |
| BD06837 | Chloride             | mg/L  | 0.0436     | 1.00     | 200   | 259    | 263    | 10.1     | 9.00 to 11.0    | 102  | 80.0 to 120 | 1.53  | 20.0  |
| BD06839 | Chromium, Dissolved  | mg/L  | -0.0000370 | 0.000440 | 0.100 | 0.0988 | 0.0992 | 0.0995   | 0.0850 to 0.115 | 95.8 | 70.0 to 130 | 0.404 | 20.0  |
| BD06838 | Chromium, Total      | mg/L  | -0.0000476 | 0.000440 | 0.100 | 0.0986 | 0.0969 | 0.0965   | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 1.74  | 20.0  |
| BD06839 | Cobalt, Dissolved    | mg/L  | -0.0000017 | 0.000147 | 0.100 | 0.101  | 0.101  | 0.101    | 0.0850 to 0.115 | 99.9 | 70.0 to 130 | 0.00  | 20.0  |
| BD06838 | Cobalt, Total        | mg/L  | 0.0000042  | 0.000147 | 0.100 | 0.101  | 0.0985 | 0.0997   | 0.0850 to 0.115 | 101  | 70.0 to 130 | 2.51  | 20.0  |
| BD06838 | Fluoride             | mg/L  | -0.00248   | 0.125    | 2.50  | 2.72   | 2.76   | 2.59     | 2.25 to 2.75    | 106  | 80.0 to 120 | 1.46  | 20.0  |
| BD06839 | Iron, Dissolved      | mg/L  | -0.00183   | 0.0176   | 0.2   | 32.1   | 32.1   | 0.195    | 0.170 to 0.230  | 50.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD06838 | Iron, Total          | mg/L  | 0.000416   | 0.0176   | 0.2   | 14.9   | 14.1   | 0.200    | 0.170 to 0.230  | 450  | 70.0 to 130 | 5.52  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Nitrate-Nitrite matrix spike recovery and/or matrix spike duplicate recovery passes using values below the detection limit.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/4/23 14:14  
**Customer ID:**  
**Delivery Date:** 4/6/23 11:49

**Description:** Barry Ash Pond - MW-3

**Laboratory ID Number:** BD06835

| Sample  | Analysis               | Units | MB         | MB       |       | MS      | MSD    | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|--------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       |            | Limit    | Spike |         |        | Standard | Limit              | Rec  | Limit       |       |       |
| BD06839 | Lead, Dissolved        | mg/L  | 0.0000118  | 0.000147 | 0.100 | 0.100   | 0.0955 | 0.0971   | 0.0850 to 0.115    | 100  | 70.0 to 130 | 4.60  | 20.0  |
| BD06838 | Lead, Total            | mg/L  | 0.0000027  | 0.000147 | 0.100 | 0.0958  | 0.0961 | 0.0945   | 0.0850 to 0.115    | 95.8 | 70.0 to 130 | 0.313 | 20.0  |
| BD06839 | Lithium, Dissolved     | mg/L  | 0.000245   | 0.0154   | 0.200 | 0.203   | 0.199  | 0.195    | 0.170 to 0.230     | 102  | 70.0 to 130 | 1.99  | 20.0  |
| BD06838 | Lithium, Total         | mg/L  | -0.000701  | 0.0154   | 0.200 | 0.204   | 0.201  | 0.199    | 0.170 to 0.230     | 102  | 70.0 to 130 | 1.48  | 20.0  |
| BD06839 | Magnesium, Dissolved   | mg/L  | 0.000      | 0.0462   | 5.00  | 11.0    | 11.0   | 4.93     | 4.25 to 5.75       | 97.6 | 70.0 to 130 | 0.00  | 20.0  |
| BD06838 | Magnesium, Total       | mg/L  | -0.00548   | 0.0462   | 5.00  | 6.45    | 6.43   | 4.93     | 4.25 to 5.75       | 99.8 | 70.0 to 130 | 0.311 | 20.0  |
| BD06839 | Manganese, Dissolved   | mg/L  | 0.0000167  | 0.00033  | 0.100 | 0.376   | 0.381  | 0.101    | 0.0850 to 0.115    | 94.0 | 70.0 to 130 | 1.32  | 20.0  |
| BD06838 | Manganese, Total       | mg/L  | 0.000200   | 0.00033  | 0.100 | 0.340   | 0.329  | 0.0980   | 0.0850 to 0.115    | 108  | 70.0 to 130 | 3.29  | 20.0  |
| BD06838 | Mercury, Total by CVAA | mg/L  | 2.000E-05  | 0.000500 | 0.004 | 0.00399 | 0.004  | 0.00403  | 0.00340 to 0.00460 | 99.8 | 70.0 to 130 | 0.250 | 20.0  |
| BD06839 | Molybdenum, Dissolved  | mg/L  | -0.000152  | 0.0100   | 0.2   | 0.197   | 0.194  | 0.195    | 0.170 to 0.230     | 98.5 | 70.0 to 130 | 1.53  | 20.0  |
| BD06838 | Molybdenum, Total      | mg/L  | -0.001     | 0.0100   | 0.2   | 0.200   | 0.201  | 0.201    | 0.170 to 0.230     | 100  | 70.0 to 130 | 0.499 | 20.0  |
| BD06839 | Potassium, Dissolved   | mg/L  | 0.00935    | 0.367    | 10.0  | 12.2    | 12.2   | 9.82     | 8.50 to 11.5       | 98.2 | 70.0 to 130 | 0.00  | 20.0  |
| BD06838 | Potassium, Total       | mg/L  | -0.00778   | 0.367    | 10.0  | 10.4    | 10.5   | 9.95     | 8.50 to 11.5       | 100  | 70.0 to 130 | 0.957 | 20.0  |
| BD06839 | Selenium, Dissolved    | mg/L  | 0.000102   | 0.00100  | 0.100 | 0.103   | 0.104  | 0.0997   | 0.0850 to 0.115    | 103  | 70.0 to 130 | 0.966 | 20.0  |
| BD06838 | Selenium, Total        | mg/L  | 0.0000454  | 0.00100  | 0.100 | 0.0988  | 0.0998 | 0.100    | 0.0850 to 0.115    | 98.8 | 70.0 to 130 | 1.01  | 20.0  |
| BD06839 | Silicon, Dissolved     | mg/L  | 0.000229   | 0.0440   | 1.00  | 10.2    | 10.2   | 0.997    | 0.850 to 1.15      | 94.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD06838 | Silicon, Total         | mg/L  | -0.000048  | 0.0440   | 1.00  | 5.47    | 5.48   | 1.02     | 0.850 to 1.15      | 107  | 70.0 to 130 | 0.183 | 20.0  |
| BD06839 | Sodium, Dissolved      | mg/L  | 0.0149     | 0.0880   | 5.00  | 78.3    | 78.6   | 5.23     | 4.25 to 5.75       | 76.0 | 70.0 to 130 | 0.382 | 20.0  |
| BD06838 | Sodium, Total          | mg/L  | 0.000332   | 0.0880   | 5.00  | 14.7    | 14.4   | 4.87     | 4.25 to 5.75       | 97.6 | 70.0 to 130 | 2.06  | 20.0  |
| BD06835 | Sulfate                | mg/L  | -0.0671    | 2.0      | 20.0  | 22.3    | 22.4   | 19.9     | 18.0 to 22.0       | 96.9 | 80.0 to 120 | 0.447 | 20.0  |
| BD06839 | Thallium, Dissolved    | mg/L  | -0.0000001 | 0.000147 | 0.100 | 0.102   | 0.0974 | 0.0992   | 0.0850 to 0.115    | 102  | 70.0 to 130 | 4.61  | 20.0  |
| BD06838 | Thallium, Total        | mg/L  | 0.0000054  | 0.000147 | 0.100 | 0.0974  | 0.0989 | 0.0978   | 0.0850 to 0.115    | 97.4 | 70.0 to 130 | 1.53  | 20.0  |
| BD06838 | Total Organic Carbon   | mg/L  | 0.0766     | 1.00     | 10.0  | 12.5    | 12.5   | 24.8     |                    | 99.2 | 80.0 to 120 | 0.00  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Nitrate-Nitrite matrix spike recovery and/or matrix spike duplicate recovery passes using values below the detection limit.

## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/4/23 14:14

**Customer ID:**

**Delivery Date:** 4/6/23 11:49

**Description:** Barry Ash Pond - MW-3

**Laboratory ID Number:** BD06835

| Sample  | Analysis                  | Units      | MB   | MB Limit | Spike | MS   | Sample Duplicate | Standard | Standard Limit | Rec | Limit       | Prec  | Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|----------|----------------|-----|-------------|-------|-------|
| BD06839 | Alkalinity to pH 4.5      | mg CaCO3/L |      |          |       |      | 167              | 50.5     | 45.0 to 55.0   |     |             | 0.601 | 10.0  |
| BD06835 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.04 | 0.200    | 2.00  | 2.32 | 0.166            | 1.92     | 1.80 to 2.20   | 116 | 90.0 to 110 | 0.00  | 15.0  |
| BD06836 | Solids, Dissolved         | mg/L       | 1.00 | 25.0     |       |      | 222              | 51.0     | 40.0 to 60.0   |     |             | 1.36  | 10.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Nitrate-Nitrite matrix spike recovery and/or matrix spike duplicate recovery passes using values below the detection limit.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-1V

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 15:12  
**Customer ID:**  
**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06836

| Name                                | Prepared     | Analyzed      | Vio Spec            | DF    | Results      | Units                               | MDL      | RL         | Q |
|-------------------------------------|--------------|---------------|---------------------|-------|--------------|-------------------------------------|----------|------------|---|
| <b>Analytical Method: EPA 200.7</b> |              |               | <b>Analyst: ABB</b> |       |              | <b>Preparation Method: EPA 1638</b> |          |            |   |
| * Boron, Total                      | 4/7/23 14:10 | 4/11/23 12:17 |                     | 1.015 | 0.0656       | mg/L                                | 0.030000 | 0.1015     | J |
| * Calcium, Total                    | 4/7/23 14:10 | 4/11/23 12:17 |                     | 1.015 | 2.57         | mg/L                                | 0.070035 | 0.406      |   |
| * Iron, Total                       | 4/7/23 14:10 | 4/11/23 12:17 |                     | 1.015 | 0.304        | mg/L                                | 0.008120 | 0.0406     |   |
| * Lithium, Total                    | 4/7/23 14:10 | 4/11/23 12:17 |                     | 1.015 | Not Detected | mg/L                                | 0.007105 | 0.01999956 | U |
| * Magnesium, Total                  | 4/7/23 14:10 | 4/11/23 12:17 |                     | 1.015 | 1.50         | mg/L                                | 0.021315 | 0.406      |   |
| * Molybdenum, Total                 | 4/7/23 14:10 | 4/11/23 12:17 |                     | 1.015 | Not Detected | mg/L                                | 0.005075 | 0.01015    | U |
| * Silica, Total (calc.)             | 4/7/23 14:10 | 4/11/23 12:17 |                     | 1     | 13.1         | mg/L                                |          |            |   |
| * Silicon, Total                    | 4/7/23 14:10 | 4/11/23 12:17 |                     | 1.015 | 6.10         | mg/L                                | 0.02030  | 0.25375    |   |
| * Sodium, Total                     | 4/7/23 14:10 | 4/13/23 13:46 |                     | 10.15 | 78.6         | mg/L                                | 0.4060   | 4.06       |   |
| <b>Analytical Method: EPA 200.7</b> |              |               | <b>Analyst: ABB</b> |       |              |                                     |          |            |   |
| * Boron, Dissolved                  | 4/7/23 11:45 | 4/12/23 12:14 |                     | 1.015 | 0.0659       | mg/L                                | 0.030000 | 0.1015     | J |
| * Calcium, Dissolved                | 4/7/23 11:45 | 4/12/23 12:14 |                     | 1.015 | 2.52         | mg/L                                | 0.070035 | 0.406      |   |
| * Iron, Dissolved                   | 4/7/23 11:45 | 4/12/23 12:14 |                     | 1.015 | 0.297        | mg/L                                | 0.008120 | 0.0406     |   |
| * Lithium, Dissolved                | 4/7/23 11:45 | 4/12/23 12:14 |                     | 1.015 | Not Detected | mg/L                                | 0.007105 | 0.01999956 | U |
| * Magnesium, Dissolved              | 4/7/23 11:45 | 4/12/23 12:14 |                     | 1.015 | 1.50         | mg/L                                | 0.021315 | 0.406      |   |
| * Molybdenum, Dissolved             | 4/7/23 11:45 | 4/12/23 12:14 |                     | 1.015 | Not Detected | mg/L                                | 0.005075 | 0.01015    | U |
| * Silica, Dissolved (calc.)         | 4/7/23 11:45 | 4/12/23 12:14 |                     | 1     | 12.8         | mg/L                                |          |            |   |
| * Silicon, Dissolved                | 4/7/23 11:45 | 4/12/23 12:14 |                     | 1.015 | 5.99         | mg/L                                | 0.02030  | 0.25375    |   |
| * Sodium, Dissolved                 | 4/7/23 11:45 | 4/12/23 14:14 |                     | 10.15 | 74.3         | mg/L                                | 0.4060   | 4.06       |   |
| <b>Analytical Method: EPA 200.8</b> |              |               | <b>Analyst: DLJ</b> |       |              | <b>Preparation Method: EPA 1638</b> |          |            |   |
| * Antimony, Total                   | 4/7/23 14:10 | 4/7/23 17:52  |                     | 1.015 | Not Detected | mg/L                                | 0.000710 | 0.001015   | U |
| * Aluminum, Total                   | 4/7/23 14:10 | 4/7/23 17:52  |                     | 1.015 | 0.0253       | mg/L                                | 0.009135 | 0.05075    | J |
| * Arsenic, Total                    | 4/7/23 14:10 | 4/7/23 17:52  |                     | 1.015 | 0.000633     | mg/L                                | 0.000112 | 0.000203   |   |
| * Barium, Total                     | 4/7/23 14:10 | 4/7/23 17:52  |                     | 1.015 | 0.0564       | mg/L                                | 0.000508 | 0.001015   |   |
| * Beryllium, Total                  | 4/7/23 14:10 | 4/7/23 17:52  |                     | 1.015 | Not Detected | mg/L                                | 0.000406 | 0.001015   | U |
| * Cadmium, Total                    | 4/7/23 14:10 | 4/7/23 17:52  |                     | 1.015 | Not Detected | mg/L                                | 0.000068 | 0.000203   | U |
| * Chromium, Total                   | 4/7/23 14:10 | 4/7/23 17:52  |                     | 1.015 | 0.000342     | mg/L                                | 0.000203 | 0.001015   | J |
| * Cobalt, Total                     | 4/7/23 14:10 | 4/7/23 17:52  |                     | 1.015 | 0.00568      | mg/L                                | 0.000068 | 0.000203   |   |
| * Lead, Total                       | 4/7/23 14:10 | 4/7/23 17:52  |                     | 1.015 | Not Detected | mg/L                                | 0.000068 | 0.000203   | U |
| * Manganese, Total                  | 4/7/23 14:10 | 4/7/23 17:52  |                     | 1.015 | 0.0802       | mg/L                                | 0.000152 | 0.001015   |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-1V

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 15:12  
**Customer ID:**  
**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06836

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/7/23 14:10  | 4/7/23 17:52        |          | 1.015 | 2.12         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/7/23 14:10  | 4/7/23 17:52        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/7/23 14:10  | 4/7/23 17:52        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:43        |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:43        |          | 1.015 | 0.0111       | mg/L       | 0.009135 | 0.05075  | J |
| * Arsenic, Dissolved                   | 4/7/23 11:45  | 4/7/23 14:43        |          | 1.015 | 0.000570     | mg/L       | 0.000112 | 0.000203 |   |
| * Barium, Dissolved                    | 4/7/23 11:45  | 4/7/23 14:43        |          | 1.015 | 0.0558       | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/7/23 11:45  | 4/7/23 14:43        |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/7/23 11:45  | 4/7/23 14:43        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:43        |          | 1.015 | 0.000316     | mg/L       | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved                    | 4/7/23 11:45  | 4/7/23 14:43        |          | 1.015 | 0.00587      | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/7/23 11:45  | 4/7/23 14:43        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/7/23 11:45  | 4/7/23 14:43        |          | 1.015 | 0.0830       | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/7/23 11:45  | 4/7/23 14:43        |          | 1.015 | 2.11         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:43        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:43        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/11/23 18:35 | 4/12/23 01:53       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/10/23 15:10 | 4/10/23 15:10       |          | 1     | Not Detected | mg/L as N  | 0.20     | 0.3      | U |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/18/23 10:05 | 4/18/23 12:08       |          | 1     | 34.1         | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/7/23 10:42  | 4/10/23 13:50       |          | 1     | 219          | mg/L       |          | 25       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/18/23 10:05 | 4/18/23 12:08       |          | 1     | 34.1         | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 4/18/23 10:05 | 4/18/23 12:08       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/12/23 15:53 | 4/12/23 15:53       |          | 1     | Not Detected | mg/L       | 1.00     | 2        | U |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-1V

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 15:12  
**Customer ID:**  
**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06836

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results      | Units | MDL   | RL    | Q  |
|--|---------------|---------------------|----------|----|--------------|-------|-------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: CES</b> |          |    |              |       |       |       |    |
| * Chloride                                   | 4/12/23 12:58 | 4/12/23 12:58       |          | 20 | 92.3         | mg/L  | 10.00 | 10    |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: CES</b> |          |    |              |       |       |       |    |
| * Fluoride                                   | 4/13/23 11:44 | 4/13/23 11:44       |          | 1  | Not Detected | mg/L  | 0.06  | 0.125 | U  |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |              |       |       |       |    |
| * Sulfate                                    | 4/17/23 15:25 | 4/17/23 15:25       |          | 1  | 19.0         | mg/L  | 0.6   | 2     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: DKG</b> |          |    |              |       |       |       |    |
| Conductivity                                 | 4/4/23 15:08  | 4/4/23 15:08        |          |    | 410.30       | uS/cm |       |       | FA |
| pH   | 4/4/23 15:08  | 4/4/23 15:08        |          |    | 5.69         | SU    |       |       | FA |
| Temperature                                  | 4/4/23 15:08  | 4/4/23 15:08        |          |    | 22.74        | C     |       |       | FA |
| Turbidity                                    | 4/4/23 15:08  | 4/4/23 15:08        |          |    | 1.4          | NTU   |       |       | FA |
| Sulfide                                      | 4/4/23 15:08  | 4/4/23 15:08        |          |    | 0            | mg/L  |       |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/4/23 15:12  
**Customer ID:**  
**Delivery Date:** 4/6/23 11:49

**Description:** Barry Ash Pond - MW-1V

**Laboratory ID Number:** BD06836

| Sample  | Analysis             | Units | MB         | MB       |       |        |        | Standard |                 | Rec  |             |       | Prec Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|------------|
|         |                      |       |            | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec  | Limit       | Prec  |            |
| BD06839 | Aluminum, Dissolved  | mg/L  | 0.0000353  | 0.0198   | 0.100 | 0.106  | 0.107  | 0.0999   | 0.0850 to 0.115 | 106  | 70.0 to 130 | 0.939 | 20.0       |
| BD06838 | Aluminum, Total      | mg/L  | 0.000609   | 0.0198   | 0.100 | 0.155  | 0.156  | 0.103    | 0.0850 to 0.115 | 111  | 70.0 to 130 | 0.643 | 20.0       |
| BD06839 | Antimony, Dissolved  | mg/L  | 0.000377   | 0.00100  | 0.100 | 0.0917 | 0.0904 | 0.0898   | 0.0850 to 0.115 | 91.7 | 70.0 to 130 | 1.43  | 20.0       |
| BD06838 | Antimony, Total      | mg/L  | 0.000237   | 0.00100  | 0.100 | 0.0909 | 0.0928 | 0.0867   | 0.0850 to 0.115 | 90.9 | 70.0 to 130 | 2.07  | 20.0       |
| BD06839 | Arsenic, Dissolved   | mg/L  | 0.0000113  | 0.000200 | 0.100 | 0.116  | 0.117  | 0.0990   | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 0.858 | 20.0       |
| BD06838 | Arsenic, Total       | mg/L  | 0.0000156  | 0.000200 | 0.100 | 0.0974 | 0.0996 | 0.0998   | 0.0850 to 0.115 | 96.5 | 70.0 to 130 | 2.23  | 20.0       |
| BD06839 | Barium, Dissolved    | mg/L  | 0.0000105  | 0.00100  | 0.100 | 0.149  | 0.147  | 0.0944   | 0.0850 to 0.115 | 92.7 | 70.0 to 130 | 1.35  | 20.0       |
| BD06838 | Barium, Total        | mg/L  | -0.0000063 | 0.00100  | 0.100 | 0.117  | 0.116  | 0.0923   | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 0.858 | 20.0       |
| BD06839 | Beryllium, Dissolved | mg/L  | 0.0000117  | 0.000880 | 0.100 | 0.0966 | 0.0920 | 0.0908   | 0.0850 to 0.115 | 96.6 | 70.0 to 130 | 4.88  | 20.0       |
| BD06838 | Beryllium, Total     | mg/L  | 0.0000000  | 0.000880 | 0.100 | 0.0961 | 0.0991 | 0.0944   | 0.0850 to 0.115 | 96.1 | 70.0 to 130 | 3.07  | 20.0       |
| BD06839 | Boron, Dissolved     | mg/L  | -0.000075  | 0.0650   | 1.00  | 1.08   | 1.08   | 1.00     | 0.850 to 1.15   | 102  | 70.0 to 130 | 0.00  | 20.0       |
| BD06838 | Boron, Total         | mg/L  | -0.000537  | 0.0650   | 1.00  | 1.06   | 1.07   | 1.02     | 0.850 to 1.15   | 102  | 70.0 to 130 | 0.939 | 20.0       |
| BD06839 | Cadmium, Dissolved   | mg/L  | 0.0000046  | 0.000147 | 0.100 | 0.0986 | 0.0955 | 0.0982   | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 3.19  | 20.0       |
| BD06838 | Cadmium, Total       | mg/L  | 0.0000043  | 0.000147 | 0.100 | 0.0946 | 0.0954 | 0.0962   | 0.0850 to 0.115 | 94.6 | 70.0 to 130 | 0.842 | 20.0       |
| BD06839 | Calcium, Dissolved   | mg/L  | -0.00493   | 0.152    | 5.00  | 14.4   | 14.3   | 4.94     | 4.25 to 5.75    | 94.6 | 70.0 to 130 | 0.697 | 20.0       |
| BD06838 | Calcium, Total       | mg/L  | -0.0178    | 0.152    | 5.00  | 9.85   | 10.1   | 5.00     | 4.25 to 5.75    | 99.2 | 70.0 to 130 | 2.51  | 20.0       |
| BD06837 | Chloride             | mg/L  | 0.0436     | 1.00     | 200   | 259    | 263    | 10.1     | 9.00 to 11.0    | 102  | 80.0 to 120 | 1.53  | 20.0       |
| BD06839 | Chromium, Dissolved  | mg/L  | -0.0000370 | 0.000440 | 0.100 | 0.0988 | 0.0992 | 0.0995   | 0.0850 to 0.115 | 95.8 | 70.0 to 130 | 0.404 | 20.0       |
| BD06838 | Chromium, Total      | mg/L  | -0.0000476 | 0.000440 | 0.100 | 0.0986 | 0.0969 | 0.0965   | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 1.74  | 20.0       |
| BD06839 | Cobalt, Dissolved    | mg/L  | -0.0000017 | 0.000147 | 0.100 | 0.101  | 0.101  | 0.101    | 0.0850 to 0.115 | 99.9 | 70.0 to 130 | 0.00  | 20.0       |
| BD06838 | Cobalt, Total        | mg/L  | 0.0000042  | 0.000147 | 0.100 | 0.101  | 0.0985 | 0.0997   | 0.0850 to 0.115 | 101  | 70.0 to 130 | 2.51  | 20.0       |
| BD06838 | Fluoride             | mg/L  | -0.00248   | 0.125    | 2.50  | 2.72   | 2.76   | 2.59     | 2.25 to 2.75    | 106  | 80.0 to 120 | 1.46  | 20.0       |
| BD06839 | Iron, Dissolved      | mg/L  | -0.00183   | 0.0176   | 0.2   | 32.1   | 32.1   | 0.195    | 0.170 to 0.230  | 50.0 | 70.0 to 130 | 0.00  | 20.0       |
| BD06838 | Iron, Total          | mg/L  | 0.000416   | 0.0176   | 0.2   | 14.9   | 14.1   | 0.200    | 0.170 to 0.230  | 450  | 70.0 to 130 | 5.52  | 20.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/4/23 15:12  
**Customer ID:**  
**Delivery Date:** 4/6/23 11:49

**Description:** Barry Ash Pond - MW-1V

**Laboratory ID Number:** BD06836

| Sample  | Analysis               | Units | MB         | MB       |       |         |        | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|--------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       |            | Limit    | Spike | MS      | MSD    | Standard | Limit              | Rec  | Limit       |       |       |
| BD06839 | Lead, Dissolved        | mg/L  | 0.0000118  | 0.000147 | 0.100 | 0.100   | 0.0955 | 0.0971   | 0.0850 to 0.115    | 100  | 70.0 to 130 | 4.60  | 20.0  |
| BD06838 | Lead, Total            | mg/L  | 0.0000027  | 0.000147 | 0.100 | 0.0958  | 0.0961 | 0.0945   | 0.0850 to 0.115    | 95.8 | 70.0 to 130 | 0.313 | 20.0  |
| BD06839 | Lithium, Dissolved     | mg/L  | 0.000245   | 0.0154   | 0.200 | 0.203   | 0.199  | 0.195    | 0.170 to 0.230     | 102  | 70.0 to 130 | 1.99  | 20.0  |
| BD06838 | Lithium, Total         | mg/L  | -0.000701  | 0.0154   | 0.200 | 0.204   | 0.201  | 0.199    | 0.170 to 0.230     | 102  | 70.0 to 130 | 1.48  | 20.0  |
| BD06839 | Magnesium, Dissolved   | mg/L  | 0.000      | 0.0462   | 5.00  | 11.0    | 11.0   | 4.93     | 4.25 to 5.75       | 97.6 | 70.0 to 130 | 0.00  | 20.0  |
| BD06838 | Magnesium, Total       | mg/L  | -0.00548   | 0.0462   | 5.00  | 6.45    | 6.43   | 4.93     | 4.25 to 5.75       | 99.8 | 70.0 to 130 | 0.311 | 20.0  |
| BD06839 | Manganese, Dissolved   | mg/L  | 0.0000167  | 0.00033  | 0.100 | 0.376   | 0.381  | 0.101    | 0.0850 to 0.115    | 94.0 | 70.0 to 130 | 1.32  | 20.0  |
| BD06838 | Manganese, Total       | mg/L  | 0.000200   | 0.00033  | 0.100 | 0.340   | 0.329  | 0.0980   | 0.0850 to 0.115    | 108  | 70.0 to 130 | 3.29  | 20.0  |
| BD06838 | Mercury, Total by CVAA | mg/L  | 2.000E-05  | 0.000500 | 0.004 | 0.00399 | 0.004  | 0.00403  | 0.00340 to 0.00460 | 99.8 | 70.0 to 130 | 0.250 | 20.0  |
| BD06839 | Molybdenum, Dissolved  | mg/L  | -0.000152  | 0.0100   | 0.2   | 0.197   | 0.194  | 0.195    | 0.170 to 0.230     | 98.5 | 70.0 to 130 | 1.53  | 20.0  |
| BD06838 | Molybdenum, Total      | mg/L  | -0.001     | 0.0100   | 0.2   | 0.200   | 0.201  | 0.201    | 0.170 to 0.230     | 100  | 70.0 to 130 | 0.499 | 20.0  |
| BD06839 | Potassium, Dissolved   | mg/L  | 0.00935    | 0.367    | 10.0  | 12.2    | 12.2   | 9.82     | 8.50 to 11.5       | 98.2 | 70.0 to 130 | 0.00  | 20.0  |
| BD06838 | Potassium, Total       | mg/L  | -0.00778   | 0.367    | 10.0  | 10.4    | 10.5   | 9.95     | 8.50 to 11.5       | 100  | 70.0 to 130 | 0.957 | 20.0  |
| BD06839 | Selenium, Dissolved    | mg/L  | 0.000102   | 0.00100  | 0.100 | 0.103   | 0.104  | 0.0997   | 0.0850 to 0.115    | 103  | 70.0 to 130 | 0.966 | 20.0  |
| BD06838 | Selenium, Total        | mg/L  | 0.0000454  | 0.00100  | 0.100 | 0.0988  | 0.0998 | 0.100    | 0.0850 to 0.115    | 98.8 | 70.0 to 130 | 1.01  | 20.0  |
| BD06839 | Silicon, Dissolved     | mg/L  | 0.000229   | 0.0440   | 1.00  | 10.2    | 10.2   | 0.997    | 0.850 to 1.15      | 94.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD06838 | Silicon, Total         | mg/L  | -0.000048  | 0.0440   | 1.00  | 5.47    | 5.48   | 1.02     | 0.850 to 1.15      | 107  | 70.0 to 130 | 0.183 | 20.0  |
| BD06839 | Sodium, Dissolved      | mg/L  | 0.0149     | 0.0880   | 5.00  | 78.3    | 78.6   | 5.23     | 4.25 to 5.75       | 76.0 | 70.0 to 130 | 0.382 | 20.0  |
| BD06838 | Sodium, Total          | mg/L  | 0.000332   | 0.0880   | 5.00  | 14.7    | 14.4   | 4.87     | 4.25 to 5.75       | 97.6 | 70.0 to 130 | 2.06  | 20.0  |
| BD06840 | Sulfate                | mg/L  | 0.346      | 2.0      | 20.0  | 20.6    | 20.3   | 19.7     | 18.0 to 22.0       | 103  | 80.0 to 120 | 1.47  | 20.0  |
| BD06839 | Thallium, Dissolved    | mg/L  | -0.0000001 | 0.000147 | 0.100 | 0.102   | 0.0974 | 0.0992   | 0.0850 to 0.115    | 102  | 70.0 to 130 | 4.61  | 20.0  |
| BD06838 | Thallium, Total        | mg/L  | 0.0000054  | 0.000147 | 0.100 | 0.0974  | 0.0989 | 0.0978   | 0.0850 to 0.115    | 97.4 | 70.0 to 130 | 1.53  | 20.0  |
| BD06838 | Total Organic Carbon   | mg/L  | 0.0766     | 1.00     | 10.0  | 12.5    | 12.5   | 24.8     |                    | 99.2 | 80.0 to 120 | 0.00  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/4/23 15:12

**Customer ID:**

**Delivery Date:** 4/6/23 11:49

**Description:** Barry Ash Pond - MW-1V

**Laboratory ID Number:** BD06836

| Sample  | Analysis                  | Units      | MB   | MB<br>Limit | Spike | MS   | Sample<br>Duplicate | Standard | Standard<br>Limit | Rec | Rec<br>Limit | Prec  | Prec<br>Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------|-------------------|-----|--------------|-------|---------------|
| BD06839 | Alkalinity to pH 4.5      | mg CaCO3/L |      |             |       |      | 167                 | 50.5     | 45.0 to 55.0      |     |              | 0.601 | 10.0          |
| BD06840 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.00 | 0.200       | 2.00  | 2.05 | -0.001              | 1.98     | 1.80 to 2.20      | 102 | 90.0 to 110  | 0.00  | 15.0          |
| BD06836 | Solids, Dissolved         | mg/L       | 1.00 | 25.0        |       |      | 222                 | 51.0     | 40.0 to 60.0      |     |              | 1.36  | 10.0          |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-16V

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 16:31  
**Customer ID:**  
**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06837

| Name                                | Prepared     | Analyzed      | Vio Spec            | DF    | Results                             | Units | MDL      | RL         | Q |
|-------------------------------------|--------------|---------------|---------------------|-------|-------------------------------------|-------|----------|------------|---|
| <b>Analytical Method: EPA 200.7</b> |              |               | <b>Analyst: ABB</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Boron, Total                      | 4/7/23 14:10 | 4/11/23 12:20 |                     | 1.015 | Not Detected                        | mg/L  | 0.030000 | 0.1015     | U |
| * Calcium, Total                    | 4/7/23 14:10 | 4/11/23 12:20 |                     | 1.015 | 2.35                                | mg/L  | 0.070035 | 0.406      |   |
| * Iron, Total                       | 4/7/23 14:10 | 4/11/23 12:20 |                     | 1.015 | 3.89                                | mg/L  | 0.008120 | 0.0406     |   |
| * Lithium, Total                    | 4/7/23 14:10 | 4/11/23 12:20 |                     | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |
| * Magnesium, Total                  | 4/7/23 14:10 | 4/11/23 12:20 |                     | 1.015 | 2.06                                | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Total                 | 4/7/23 14:10 | 4/11/23 12:20 |                     | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Total (calc.)             | 4/7/23 14:10 | 4/11/23 12:20 |                     | 1     | 13.6                                | mg/L  |          |            |   |
| * Silicon, Total                    | 4/7/23 14:10 | 4/11/23 12:20 |                     | 1.015 | 6.36                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Total                     | 4/7/23 14:10 | 4/11/23 14:16 |                     | 10.15 | 50.9                                | mg/L  | 0.4060   | 4.06       |   |
| <b>Analytical Method: EPA 200.7</b> |              |               | <b>Analyst: ABB</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Boron, Dissolved                  | 4/7/23 11:45 | 4/12/23 12:18 |                     | 1.015 | Not Detected                        | mg/L  | 0.030000 | 0.1015     | U |
| * Calcium, Dissolved                | 4/7/23 11:45 | 4/12/23 12:18 |                     | 1.015 | 2.35                                | mg/L  | 0.070035 | 0.406      |   |
| * Iron, Dissolved                   | 4/7/23 11:45 | 4/12/23 12:18 |                     | 1.015 | 3.81                                | mg/L  | 0.008120 | 0.0406     |   |
| * Lithium, Dissolved                | 4/7/23 11:45 | 4/12/23 12:18 |                     | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |
| * Magnesium, Dissolved              | 4/7/23 11:45 | 4/12/23 12:18 |                     | 1.015 | 2.12                                | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Dissolved             | 4/7/23 11:45 | 4/12/23 12:18 |                     | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Dissolved (calc.)         | 4/7/23 11:45 | 4/12/23 12:18 |                     | 1     | 13.2                                | mg/L  |          |            |   |
| * Silicon, Dissolved                | 4/7/23 11:45 | 4/12/23 12:18 |                     | 1.015 | 6.17                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Dissolved                 | 4/7/23 11:45 | 4/12/23 14:18 |                     | 10.15 | 50.1                                | mg/L  | 0.4060   | 4.06       |   |
| <b>Analytical Method: EPA 200.8</b> |              |               | <b>Analyst: DLJ</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Antimony, Total                   | 4/7/23 14:10 | 4/7/23 17:56  |                     | 1.015 | Not Detected                        | mg/L  | 0.000710 | 0.001015   | U |
| * Aluminum, Total                   | 4/7/23 14:10 | 4/7/23 17:56  |                     | 1.015 | 0.407                               | mg/L  | 0.009135 | 0.05075    |   |
| * Arsenic, Total                    | 4/7/23 14:10 | 4/7/23 17:56  |                     | 1.015 | 0.000920                            | mg/L  | 0.000112 | 0.000203   |   |
| * Barium, Total                     | 4/7/23 14:10 | 4/7/23 17:56  |                     | 1.015 | 0.0618                              | mg/L  | 0.000508 | 0.001015   |   |
| * Beryllium, Total                  | 4/7/23 14:10 | 4/7/23 17:56  |                     | 1.015 | Not Detected                        | mg/L  | 0.000406 | 0.001015   | U |
| * Cadmium, Total                    | 4/7/23 14:10 | 4/7/23 17:56  |                     | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |
| * Chromium, Total                   | 4/7/23 14:10 | 4/7/23 17:56  |                     | 1.015 | 0.00133                             | mg/L  | 0.000203 | 0.001015   |   |
| * Cobalt, Total                     | 4/7/23 14:10 | 4/7/23 17:56  |                     | 1.015 | 0.0168                              | mg/L  | 0.000068 | 0.000203   |   |
| * Lead, Total                       | 4/7/23 14:10 | 4/7/23 17:56  |                     | 1.015 | 0.000253                            | mg/L  | 0.000068 | 0.000203   |   |
| * Manganese, Total                  | 4/7/23 14:10 | 4/7/23 17:56  |                     | 1.015 | 0.186                               | mg/L  | 0.000152 | 0.001015   |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-16V

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 16:31  
**Customer ID:**  
**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06837

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/7/23 14:10  | 4/7/23 17:56        |          | 1.015 | 1.89         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/7/23 14:10  | 4/7/23 17:56        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/7/23 14:10  | 4/7/23 17:56        |          | 1.015 | 0.0000822    | mg/L       | 0.000068 | 0.000203 | J |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:47        |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:47        |          | 1.015 | Not Detected | mg/L       | 0.009135 | 0.05075  | U |
| * Arsenic, Dissolved                   | 4/7/23 11:45  | 4/7/23 14:47        |          | 1.015 | 0.000944     | mg/L       | 0.000112 | 0.000203 |   |
| * Barium, Dissolved                    | 4/7/23 11:45  | 4/7/23 14:47        |          | 1.015 | 0.0569       | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/7/23 11:45  | 4/7/23 14:47        |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/7/23 11:45  | 4/7/23 14:47        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:47        |          | 1.015 | Not Detected | mg/L       | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved                    | 4/7/23 11:45  | 4/7/23 14:47        |          | 1.015 | 0.0176       | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/7/23 11:45  | 4/7/23 14:47        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/7/23 11:45  | 4/7/23 14:47        |          | 1.015 | 0.191        | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/7/23 11:45  | 4/7/23 14:47        |          | 1.015 | 1.84         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:47        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:47        |          | 1.015 | 0.0000858    | mg/L       | 0.000068 | 0.000203 | J |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/11/23 18:35 | 4/12/23 01:57       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/10/23 15:10 | 4/10/23 15:10       |          | 1     | Not Detected | mg/L as N  | 0.20     | 0.3      | U |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/18/23 10:05 | 4/18/23 12:08       |          | 1     | 17.6         | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/10/23 12:00 | 4/12/23 09:20       |          | 1     | 187          | mg/L       |          | 25       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/18/23 10:05 | 4/18/23 12:08       |          | 1     | 17.6         | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 4/18/23 10:05 | 4/18/23 12:08       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/12/23 16:08 | 4/12/23 16:08       |          | 1     | Not Detected | mg/L       | 1.00     | 2        | U |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-16V

**Location Code:** WMWBARAP  
**Collected:** 4/4/23 16:31  
**Customer ID:**  
**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06837

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results      | Units | MDL   | RL    | Q  |
|--|---------------|---------------------|----------|----|--------------|-------|-------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: CES</b> |          |    |              |       |       |       |    |
| * Chloride                                   | 4/12/23 12:55 | 4/12/23 12:55       |          | 20 | 55.0         | mg/L  | 10.00 | 10    |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: CES</b> |          |    |              |       |       |       |    |
| * Fluoride                                   | 4/13/23 11:45 | 4/13/23 11:45       |          | 1  | Not Detected | mg/L  | 0.06  | 0.125 | U  |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |              |       |       |       |    |
| * Sulfate                                    | 4/17/23 15:26 | 4/17/23 15:26       |          | 1  | 34.0         | mg/L  | 0.6   | 2     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: DKG</b> |          |    |              |       |       |       |    |
| Conductivity                                 | 4/4/23 16:28  | 4/4/23 16:28        |          |    | 298.93       | uS/cm |       |       | FA |
| pH   | 4/4/23 16:28  | 4/4/23 16:28        |          |    | 4.97         | SU    |       |       | FA |
| Temperature                                  | 4/4/23 16:28  | 4/4/23 16:28        |          |    | 22.07        | C     |       |       | FA |
| Turbidity                                    | 4/4/23 16:28  | 4/4/23 16:28        |          |    | 8.86         | NTU   |       |       | FA |
| Sulfide                                      | 4/4/23 16:28  | 4/4/23 16:28        |          |    | 0            | mg/L  |       |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/4/23 16:31  
**Customer ID:**  
**Delivery Date:** 4/6/23 11:49

**Description:** Barry Ash Pond - MW-16V

**Laboratory ID Number:** BD06837

| Sample  | Analysis             | Units | MB         | MB       |       |        |        | Standard |                 | Rec  |             |       | Prec Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|------------|
|         |                      |       |            | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec  | Limit       | Prec  |            |
| BD06839 | Aluminum, Dissolved  | mg/L  | 0.0000353  | 0.0198   | 0.100 | 0.106  | 0.107  | 0.0999   | 0.0850 to 0.115 | 106  | 70.0 to 130 | 0.939 | 20.0       |
| BD06838 | Aluminum, Total      | mg/L  | 0.000609   | 0.0198   | 0.100 | 0.155  | 0.156  | 0.103    | 0.0850 to 0.115 | 111  | 70.0 to 130 | 0.643 | 20.0       |
| BD06839 | Antimony, Dissolved  | mg/L  | 0.000377   | 0.00100  | 0.100 | 0.0917 | 0.0904 | 0.0898   | 0.0850 to 0.115 | 91.7 | 70.0 to 130 | 1.43  | 20.0       |
| BD06838 | Antimony, Total      | mg/L  | 0.000237   | 0.00100  | 0.100 | 0.0909 | 0.0928 | 0.0867   | 0.0850 to 0.115 | 90.9 | 70.0 to 130 | 2.07  | 20.0       |
| BD06839 | Arsenic, Dissolved   | mg/L  | 0.0000113  | 0.000200 | 0.100 | 0.116  | 0.117  | 0.0990   | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 0.858 | 20.0       |
| BD06838 | Arsenic, Total       | mg/L  | 0.0000156  | 0.000200 | 0.100 | 0.0974 | 0.0996 | 0.0998   | 0.0850 to 0.115 | 96.5 | 70.0 to 130 | 2.23  | 20.0       |
| BD06839 | Barium, Dissolved    | mg/L  | 0.0000105  | 0.00100  | 0.100 | 0.149  | 0.147  | 0.0944   | 0.0850 to 0.115 | 92.7 | 70.0 to 130 | 1.35  | 20.0       |
| BD06838 | Barium, Total        | mg/L  | -0.0000063 | 0.00100  | 0.100 | 0.117  | 0.116  | 0.0923   | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 0.858 | 20.0       |
| BD06839 | Beryllium, Dissolved | mg/L  | 0.0000117  | 0.000880 | 0.100 | 0.0966 | 0.0920 | 0.0908   | 0.0850 to 0.115 | 96.6 | 70.0 to 130 | 4.88  | 20.0       |
| BD06838 | Beryllium, Total     | mg/L  | 0.0000000  | 0.000880 | 0.100 | 0.0961 | 0.0991 | 0.0944   | 0.0850 to 0.115 | 96.1 | 70.0 to 130 | 3.07  | 20.0       |
| BD06839 | Boron, Dissolved     | mg/L  | -0.000075  | 0.0650   | 1.00  | 1.08   | 1.08   | 1.00     | 0.850 to 1.15   | 102  | 70.0 to 130 | 0.00  | 20.0       |
| BD06838 | Boron, Total         | mg/L  | -0.000537  | 0.0650   | 1.00  | 1.06   | 1.07   | 1.02     | 0.850 to 1.15   | 102  | 70.0 to 130 | 0.939 | 20.0       |
| BD06839 | Cadmium, Dissolved   | mg/L  | 0.0000046  | 0.000147 | 0.100 | 0.0986 | 0.0955 | 0.0982   | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 3.19  | 20.0       |
| BD06838 | Cadmium, Total       | mg/L  | 0.0000043  | 0.000147 | 0.100 | 0.0946 | 0.0954 | 0.0962   | 0.0850 to 0.115 | 94.6 | 70.0 to 130 | 0.842 | 20.0       |
| BD06839 | Calcium, Dissolved   | mg/L  | -0.00493   | 0.152    | 5.00  | 14.4   | 14.3   | 4.94     | 4.25 to 5.75    | 94.6 | 70.0 to 130 | 0.697 | 20.0       |
| BD06838 | Calcium, Total       | mg/L  | -0.0178    | 0.152    | 5.00  | 9.85   | 10.1   | 5.00     | 4.25 to 5.75    | 99.2 | 70.0 to 130 | 2.51  | 20.0       |
| BD06837 | Chloride             | mg/L  | 0.0436     | 1.00     | 200   | 259    | 263    | 10.1     | 9.00 to 11.0    | 102  | 80.0 to 120 | 1.53  | 20.0       |
| BD06839 | Chromium, Dissolved  | mg/L  | -0.0000370 | 0.000440 | 0.100 | 0.0988 | 0.0992 | 0.0995   | 0.0850 to 0.115 | 95.8 | 70.0 to 130 | 0.404 | 20.0       |
| BD06838 | Chromium, Total      | mg/L  | -0.0000476 | 0.000440 | 0.100 | 0.0986 | 0.0969 | 0.0965   | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 1.74  | 20.0       |
| BD06839 | Cobalt, Dissolved    | mg/L  | -0.0000017 | 0.000147 | 0.100 | 0.101  | 0.101  | 0.101    | 0.0850 to 0.115 | 99.9 | 70.0 to 130 | 0.00  | 20.0       |
| BD06838 | Cobalt, Total        | mg/L  | 0.0000042  | 0.000147 | 0.100 | 0.101  | 0.0985 | 0.0997   | 0.0850 to 0.115 | 101  | 70.0 to 130 | 2.51  | 20.0       |
| BD06838 | Fluoride             | mg/L  | -0.00248   | 0.125    | 2.50  | 2.72   | 2.76   | 2.59     | 2.25 to 2.75    | 106  | 80.0 to 120 | 1.46  | 20.0       |
| BD06839 | Iron, Dissolved      | mg/L  | -0.00183   | 0.0176   | 0.2   | 32.1   | 32.1   | 0.195    | 0.170 to 0.230  | 50.0 | 70.0 to 130 | 0.00  | 20.0       |
| BD06838 | Iron, Total          | mg/L  | 0.000416   | 0.0176   | 0.2   | 14.9   | 14.1   | 0.200    | 0.170 to 0.230  | 450  | 70.0 to 130 | 5.52  | 20.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/4/23 16:31

**Customer ID:**

**Delivery Date:** 4/6/23 11:49

**Description:** Barry Ash Pond - MW-16V

**Laboratory ID Number:** BD06837

| Sample  | Analysis               | Units | MB         |          |       |         |        | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|--------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB         | Limit    | Spike | MS      | MSD    | Standard | Limit              | Rec  | Limit       |       |       |
| BD06839 | Lead, Dissolved        | mg/L  | 0.0000118  | 0.000147 | 0.100 | 0.100   | 0.0955 | 0.0971   | 0.0850 to 0.115    | 100  | 70.0 to 130 | 4.60  | 20.0  |
| BD06838 | Lead, Total            | mg/L  | 0.0000027  | 0.000147 | 0.100 | 0.0958  | 0.0961 | 0.0945   | 0.0850 to 0.115    | 95.8 | 70.0 to 130 | 0.313 | 20.0  |
| BD06839 | Lithium, Dissolved     | mg/L  | 0.000245   | 0.0154   | 0.200 | 0.203   | 0.199  | 0.195    | 0.170 to 0.230     | 102  | 70.0 to 130 | 1.99  | 20.0  |
| BD06838 | Lithium, Total         | mg/L  | -0.000701  | 0.0154   | 0.200 | 0.204   | 0.201  | 0.199    | 0.170 to 0.230     | 102  | 70.0 to 130 | 1.48  | 20.0  |
| BD06839 | Magnesium, Dissolved   | mg/L  | 0.000      | 0.0462   | 5.00  | 11.0    | 11.0   | 4.93     | 4.25 to 5.75       | 97.6 | 70.0 to 130 | 0.00  | 20.0  |
| BD06838 | Magnesium, Total       | mg/L  | -0.00548   | 0.0462   | 5.00  | 6.45    | 6.43   | 4.93     | 4.25 to 5.75       | 99.8 | 70.0 to 130 | 0.311 | 20.0  |
| BD06839 | Manganese, Dissolved   | mg/L  | 0.0000167  | 0.00033  | 0.100 | 0.376   | 0.381  | 0.101    | 0.0850 to 0.115    | 94.0 | 70.0 to 130 | 1.32  | 20.0  |
| BD06838 | Manganese, Total       | mg/L  | 0.000200   | 0.00033  | 0.100 | 0.340   | 0.329  | 0.0980   | 0.0850 to 0.115    | 108  | 70.0 to 130 | 3.29  | 20.0  |
| BD06838 | Mercury, Total by CVAA | mg/L  | 2.000E-05  | 0.000500 | 0.004 | 0.00399 | 0.004  | 0.00403  | 0.00340 to 0.00460 | 99.8 | 70.0 to 130 | 0.250 | 20.0  |
| BD06839 | Molybdenum, Dissolved  | mg/L  | -0.000152  | 0.0100   | 0.2   | 0.197   | 0.194  | 0.195    | 0.170 to 0.230     | 98.5 | 70.0 to 130 | 1.53  | 20.0  |
| BD06838 | Molybdenum, Total      | mg/L  | -0.001     | 0.0100   | 0.2   | 0.200   | 0.201  | 0.201    | 0.170 to 0.230     | 100  | 70.0 to 130 | 0.499 | 20.0  |
| BD06839 | Potassium, Dissolved   | mg/L  | 0.00935    | 0.367    | 10.0  | 12.2    | 12.2   | 9.82     | 8.50 to 11.5       | 98.2 | 70.0 to 130 | 0.00  | 20.0  |
| BD06838 | Potassium, Total       | mg/L  | -0.00778   | 0.367    | 10.0  | 10.4    | 10.5   | 9.95     | 8.50 to 11.5       | 100  | 70.0 to 130 | 0.957 | 20.0  |
| BD06839 | Selenium, Dissolved    | mg/L  | 0.000102   | 0.00100  | 0.100 | 0.103   | 0.104  | 0.0997   | 0.0850 to 0.115    | 103  | 70.0 to 130 | 0.966 | 20.0  |
| BD06838 | Selenium, Total        | mg/L  | 0.0000454  | 0.00100  | 0.100 | 0.0988  | 0.0998 | 0.100    | 0.0850 to 0.115    | 98.8 | 70.0 to 130 | 1.01  | 20.0  |
| BD06839 | Silicon, Dissolved     | mg/L  | 0.000229   | 0.0440   | 1.00  | 10.2    | 10.2   | 0.997    | 0.850 to 1.15      | 94.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD06838 | Silicon, Total         | mg/L  | -0.000048  | 0.0440   | 1.00  | 5.47    | 5.48   | 1.02     | 0.850 to 1.15      | 107  | 70.0 to 130 | 0.183 | 20.0  |
| BD06839 | Sodium, Dissolved      | mg/L  | 0.0149     | 0.0880   | 5.00  | 78.3    | 78.6   | 5.23     | 4.25 to 5.75       | 76.0 | 70.0 to 130 | 0.382 | 20.0  |
| BD06838 | Sodium, Total          | mg/L  | 0.000332   | 0.0880   | 5.00  | 14.7    | 14.4   | 4.87     | 4.25 to 5.75       | 97.6 | 70.0 to 130 | 2.06  | 20.0  |
| BD06840 | Sulfate                | mg/L  | 0.346      | 2.0      | 20.0  | 20.6    | 20.3   | 19.7     | 18.0 to 22.0       | 103  | 80.0 to 120 | 1.47  | 20.0  |
| BD06839 | Thallium, Dissolved    | mg/L  | -0.0000001 | 0.000147 | 0.100 | 0.102   | 0.0974 | 0.0992   | 0.0850 to 0.115    | 102  | 70.0 to 130 | 4.61  | 20.0  |
| BD06838 | Thallium, Total        | mg/L  | 0.0000054  | 0.000147 | 0.100 | 0.0974  | 0.0989 | 0.0978   | 0.0850 to 0.115    | 97.4 | 70.0 to 130 | 1.53  | 20.0  |
| BD06838 | Total Organic Carbon   | mg/L  | 0.0766     | 1.00     | 10.0  | 12.5    | 12.5   | 24.8     |                    | 99.2 | 80.0 to 120 | 0.00  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/4/23 16:31

**Customer ID:**

**Delivery Date:** 4/6/23 11:49

**Description:** Barry Ash Pond - MW-16V

**Laboratory ID Number:** BD06837

| Sample  | Analysis                  | Units      | MB     | MB Limit | Spike | MS   | Sample Duplicate | Standard Standard | Standard Limit | Rec | Rec Limit   | Prec  | Prec Limit |
|---------|---------------------------|------------|--------|----------|-------|------|------------------|-------------------|----------------|-----|-------------|-------|------------|
| BD06839 | Alkalinity to pH 4.5      | mg CaCO3/L |        |          |       |      | 167              | 50.5              | 45.0 to 55.0   |     |             | 0.601 | 10.0       |
| BD06840 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.00   | 0.200    | 2.00  | 2.05 | -0.001           | 1.98              | 1.80 to 2.20   | 102 | 90.0 to 110 | 0.00  | 15.0       |
| BD06839 | Solids, Dissolved         | mg/L       | 0.0000 | 25.0     |       |      | 315              | 52.0              | 40.0 to 60.0   |     |             | 0.317 | 10.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

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

**Location Code:** WMWBARAP  
**Collected:** 4/5/23 09:23  
**Customer ID:**  
**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06838

| Name                                | Prepared     | Analyzed      | Vio Spec            | DF    | Results      | Units                               | MDL      | RL         | Q  |
|-------------------------------------|--------------|---------------|---------------------|-------|--------------|-------------------------------------|----------|------------|----|
| <b>Analytical Method: EPA 200.7</b> |              |               | <b>Analyst: ABB</b> |       |              | <b>Preparation Method: EPA 1638</b> |          |            |    |
| * Boron, Total                      | 4/7/23 14:10 | 4/11/23 12:23 |                     | 1.015 | 0.0377       | mg/L                                | 0.030000 | 0.1015     | J  |
| * Calcium, Total                    | 4/7/23 14:10 | 4/11/23 12:23 |                     | 1.015 | 4.89         | mg/L                                | 0.070035 | 0.406      |    |
| * Iron, Total                       | 4/7/23 14:10 | 4/11/23 14:19 |                     | 10.15 | 14.0         | mg/L                                | 0.08120  | 0.406      | RA |
| * Lithium, Total                    | 4/7/23 14:10 | 4/11/23 12:23 |                     | 1.015 | Not Detected | mg/L                                | 0.007105 | 0.01999956 | U  |
| * Magnesium, Total                  | 4/7/23 14:10 | 4/11/23 12:23 |                     | 1.015 | 1.46         | mg/L                                | 0.021315 | 0.406      |    |
| * Molybdenum, Total                 | 4/7/23 14:10 | 4/11/23 12:23 |                     | 1.015 | Not Detected | mg/L                                | 0.005075 | 0.01015    | U  |
| * Silica, Total (calc.)             | 4/7/23 14:10 | 4/11/23 12:23 |                     | 1     | 9.42         | mg/L                                |          |            |    |
| * Silicon, Total                    | 4/7/23 14:10 | 4/11/23 12:23 |                     | 1.015 | 4.40         | mg/L                                | 0.02030  | 0.25375    |    |
| * Sodium, Total                     | 4/7/23 14:10 | 4/11/23 12:23 |                     | 1.015 | 9.82         | mg/L                                | 0.04060  | 0.406      |    |
| <b>Analytical Method: EPA 200.7</b> |              |               | <b>Analyst: ABB</b> |       |              |                                     |          |            |    |
| * Boron, Dissolved                  | 4/7/23 11:45 | 4/12/23 12:21 |                     | 1.015 | 0.0328       | mg/L                                | 0.030000 | 0.1015     | J  |
| * Calcium, Dissolved                | 4/7/23 11:45 | 4/12/23 12:21 |                     | 1.015 | 4.86         | mg/L                                | 0.070035 | 0.406      |    |
| * Iron, Dissolved                   | 4/7/23 11:45 | 4/12/23 14:21 |                     | 10.15 | 13.3         | mg/L                                | 0.08120  | 0.406      |    |
| * Lithium, Dissolved                | 4/7/23 11:45 | 4/12/23 12:21 |                     | 1.015 | Not Detected | mg/L                                | 0.007105 | 0.01999956 | U  |
| * Magnesium, Dissolved              | 4/7/23 11:45 | 4/12/23 12:21 |                     | 1.015 | 1.44         | mg/L                                | 0.021315 | 0.406      |    |
| * Molybdenum, Dissolved             | 4/7/23 11:45 | 4/12/23 12:21 |                     | 1.015 | Not Detected | mg/L                                | 0.005075 | 0.01015    | U  |
| * Silica, Dissolved (calc.)         | 4/7/23 11:45 | 4/12/23 12:21 |                     | 1     | 9.24         | mg/L                                |          |            |    |
| * Silicon, Dissolved                | 4/7/23 11:45 | 4/12/23 12:21 |                     | 1.015 | 4.32         | mg/L                                | 0.02030  | 0.25375    |    |
| * Sodium, Dissolved                 | 4/7/23 11:45 | 4/12/23 13:08 |                     | 1.015 | 9.83         | mg/L                                | 0.04060  | 0.406      |    |
| <b>Analytical Method: EPA 200.8</b> |              |               | <b>Analyst: DLJ</b> |       |              | <b>Preparation Method: EPA 1638</b> |          |            |    |
| * Antimony, Total                   | 4/7/23 14:10 | 4/7/23 18:00  |                     | 1.015 | Not Detected | mg/L                                | 0.000710 | 0.001015   | U  |
| * Aluminum, Total                   | 4/7/23 14:10 | 4/7/23 18:00  |                     | 1.015 | 0.0441       | mg/L                                | 0.009135 | 0.05075    | J  |
| * Arsenic, Total                    | 4/7/23 14:10 | 4/7/23 18:00  |                     | 1.015 | 0.000869     | mg/L                                | 0.000112 | 0.000203   |    |
| * Barium, Total                     | 4/7/23 14:10 | 4/7/23 18:00  |                     | 1.015 | 0.0207       | mg/L                                | 0.000508 | 0.001015   |    |
| * Beryllium, Total                  | 4/7/23 14:10 | 4/7/23 18:00  |                     | 1.015 | Not Detected | mg/L                                | 0.000406 | 0.001015   | U  |
| * Cadmium, Total                    | 4/7/23 14:10 | 4/7/23 18:00  |                     | 1.015 | Not Detected | mg/L                                | 0.000068 | 0.000203   | U  |
| * Chromium, Total                   | 4/7/23 14:10 | 4/7/23 18:00  |                     | 1.015 | 0.000484     | mg/L                                | 0.000203 | 0.001015   | J  |
| * Cobalt, Total                     | 4/7/23 14:10 | 4/7/23 18:00  |                     | 1.015 | Not Detected | mg/L                                | 0.000068 | 0.000203   | U  |
| * Lead, Total                       | 4/7/23 14:10 | 4/7/23 18:00  |                     | 1.015 | Not Detected | mg/L                                | 0.000068 | 0.000203   | U  |
| * Manganese, Total                  | 4/7/23 14:10 | 4/7/23 18:00  |                     | 1.015 | 0.232        | mg/L                                | 0.000152 | 0.001015   |    |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

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

**Location Code:** WMWBARAP  
**Collected:** 4/5/23 09:23  
**Customer ID:**  
**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06838

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/7/23 14:10  | 4/7/23 18:00        |          | 1.015 | 0.351        | mg/L       | 0.169505 | 0.5075   | J |
| * Selenium, Total                      | 4/7/23 14:10  | 4/7/23 18:00        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/7/23 14:10  | 4/7/23 18:00        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:50        |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:50        |          | 1.015 | Not Detected | mg/L       | 0.009135 | 0.05075  | U |
| * Arsenic, Dissolved                   | 4/7/23 11:45  | 4/7/23 14:50        |          | 1.015 | 0.000725     | mg/L       | 0.000112 | 0.000203 |   |
| * Barium, Dissolved                    | 4/7/23 11:45  | 4/7/23 14:50        |          | 1.015 | 0.0192       | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/7/23 11:45  | 4/7/23 14:50        |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/7/23 11:45  | 4/7/23 14:50        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:50        |          | 1.015 | 0.000303     | mg/L       | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved                    | 4/7/23 11:45  | 4/7/23 14:50        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Lead, Dissolved                      | 4/7/23 11:45  | 4/7/23 14:50        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/7/23 11:45  | 4/7/23 14:50        |          | 1.015 | 0.222        | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/7/23 11:45  | 4/7/23 14:50        |          | 1.015 | 0.331        | mg/L       | 0.169505 | 0.5075   | J |
| * Selenium, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:50        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:50        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/11/23 18:35 | 4/12/23 02:01       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/10/23 15:11 | 4/10/23 15:11       |          | 1     | Not Detected | mg/L as N  | 0.20     | 0.3      | U |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/18/23 10:05 | 4/18/23 12:08       |          | 1     | 15.1         | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/10/23 12:00 | 4/12/23 09:20       |          | 1     | 85.3         | mg/L       |          | 25       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/18/23 10:05 | 4/18/23 12:08       |          | 1     | 15.1         | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 4/18/23 10:05 | 4/18/23 12:08       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/12/23 16:24 | 4/12/23 16:24       |          | 1     | 2.58         | mg/L       | 1.00     | 2        |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

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

**Location Code:** WMWBARAP  
**Collected:** 4/5/23 09:23  
**Customer ID:**  
**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06838

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Chloride                                   | 4/12/23 13:12 | 4/12/23 13:12       |          | 1  | 6.46    | mg/L  | 0.50 | 0.5   |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Fluoride                                   | 4/13/23 11:46 | 4/13/23 11:46       |          | 1  | 0.0765  | mg/L  | 0.06 | 0.125 | J  |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |         |       |      |       |    |
| * Sulfate                                    | 4/17/23 15:33 | 4/17/23 15:33       |          | 3  | 67.0    | mg/L  | 1.8  | 6     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: DKG</b> |          |    |         |       |      |       |    |
| Conductivity                                 | 4/5/23 09:20  | 4/5/23 09:20        |          |    | 124.04  | uS/cm |      |       | FA |
| pH   | 4/5/23 09:20  | 4/5/23 09:20        |          |    | 6.15    | SU    |      |       | FA |
| Temperature                                  | 4/5/23 09:20  | 4/5/23 09:20        |          |    | 18.15   | C     |      |       | FA |
| Turbidity                                    | 4/5/23 09:20  | 4/5/23 09:20        |          |    | 4.13    | NTU   |      |       | FA |
| Sulfide                                      | 4/5/23 09:20  | 4/5/23 09:20        |          |    | 0       | mg/L  |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/5/23 09:23  
**Customer ID:**  
**Delivery Date:** 4/6/23 11:49

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

**Laboratory ID Number:** BD06838

| Sample  | Analysis             | Units | MB         | MB       |       |        |        | Standard |                 | Rec  |             | Prec  | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
|         |                      |       |            | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec  | Limit       |       |       |
| BD06839 | Aluminum, Dissolved  | mg/L  | 0.0000353  | 0.0198   | 0.100 | 0.106  | 0.107  | 0.0999   | 0.0850 to 0.115 | 106  | 70.0 to 130 | 0.939 | 20.0  |
| BD06838 | Aluminum, Total      | mg/L  | 0.000609   | 0.0198   | 0.100 | 0.155  | 0.156  | 0.103    | 0.0850 to 0.115 | 111  | 70.0 to 130 | 0.643 | 20.0  |
| BD06839 | Antimony, Dissolved  | mg/L  | 0.000377   | 0.00100  | 0.100 | 0.0917 | 0.0904 | 0.0898   | 0.0850 to 0.115 | 91.7 | 70.0 to 130 | 1.43  | 20.0  |
| BD06838 | Antimony, Total      | mg/L  | 0.000237   | 0.00100  | 0.100 | 0.0909 | 0.0928 | 0.0867   | 0.0850 to 0.115 | 90.9 | 70.0 to 130 | 2.07  | 20.0  |
| BD06839 | Arsenic, Dissolved   | mg/L  | 0.0000113  | 0.000200 | 0.100 | 0.116  | 0.117  | 0.0990   | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 0.858 | 20.0  |
| BD06838 | Arsenic, Total       | mg/L  | 0.0000156  | 0.000200 | 0.100 | 0.0974 | 0.0996 | 0.0998   | 0.0850 to 0.115 | 96.5 | 70.0 to 130 | 2.23  | 20.0  |
| BD06839 | Barium, Dissolved    | mg/L  | 0.0000105  | 0.00100  | 0.100 | 0.149  | 0.147  | 0.0944   | 0.0850 to 0.115 | 92.7 | 70.0 to 130 | 1.35  | 20.0  |
| BD06838 | Barium, Total        | mg/L  | -0.0000063 | 0.00100  | 0.100 | 0.117  | 0.116  | 0.0923   | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 0.858 | 20.0  |
| BD06839 | Beryllium, Dissolved | mg/L  | 0.0000117  | 0.000880 | 0.100 | 0.0966 | 0.0920 | 0.0908   | 0.0850 to 0.115 | 96.6 | 70.0 to 130 | 4.88  | 20.0  |
| BD06838 | Beryllium, Total     | mg/L  | 0.0000000  | 0.000880 | 0.100 | 0.0961 | 0.0991 | 0.0944   | 0.0850 to 0.115 | 96.1 | 70.0 to 130 | 3.07  | 20.0  |
| BD06839 | Boron, Dissolved     | mg/L  | -0.000075  | 0.0650   | 1.00  | 1.08   | 1.08   | 1.00     | 0.850 to 1.15   | 102  | 70.0 to 130 | 0.00  | 20.0  |
| BD06838 | Boron, Total         | mg/L  | -0.000537  | 0.0650   | 1.00  | 1.06   | 1.07   | 1.02     | 0.850 to 1.15   | 102  | 70.0 to 130 | 0.939 | 20.0  |
| BD06839 | Cadmium, Dissolved   | mg/L  | 0.0000046  | 0.000147 | 0.100 | 0.0986 | 0.0955 | 0.0982   | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 3.19  | 20.0  |
| BD06838 | Cadmium, Total       | mg/L  | 0.0000043  | 0.000147 | 0.100 | 0.0946 | 0.0954 | 0.0962   | 0.0850 to 0.115 | 94.6 | 70.0 to 130 | 0.842 | 20.0  |
| BD06839 | Calcium, Dissolved   | mg/L  | -0.00493   | 0.152    | 5.00  | 14.4   | 14.3   | 4.94     | 4.25 to 5.75    | 94.6 | 70.0 to 130 | 0.697 | 20.0  |
| BD06838 | Calcium, Total       | mg/L  | -0.0178    | 0.152    | 5.00  | 9.85   | 10.1   | 5.00     | 4.25 to 5.75    | 99.2 | 70.0 to 130 | 2.51  | 20.0  |
| BD06840 | Chloride             | mg/L  | 0.0330     | 1.00     | 10.0  | 10.2   | 10.2   | 10.0     | 9.00 to 11.0    | 102  | 80.0 to 120 | 0.00  | 20.0  |
| BD06839 | Chromium, Dissolved  | mg/L  | -0.0000370 | 0.000440 | 0.100 | 0.0988 | 0.0992 | 0.0995   | 0.0850 to 0.115 | 95.8 | 70.0 to 130 | 0.404 | 20.0  |
| BD06838 | Chromium, Total      | mg/L  | -0.0000476 | 0.000440 | 0.100 | 0.0986 | 0.0969 | 0.0965   | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 1.74  | 20.0  |
| BD06839 | Cobalt, Dissolved    | mg/L  | -0.0000017 | 0.000147 | 0.100 | 0.101  | 0.101  | 0.101    | 0.0850 to 0.115 | 99.9 | 70.0 to 130 | 0.00  | 20.0  |
| BD06838 | Cobalt, Total        | mg/L  | 0.0000042  | 0.000147 | 0.100 | 0.101  | 0.0985 | 0.0997   | 0.0850 to 0.115 | 101  | 70.0 to 130 | 2.51  | 20.0  |
| BD06838 | Fluoride             | mg/L  | -0.00248   | 0.125    | 2.50  | 2.72   | 2.76   | 2.59     | 2.25 to 2.75    | 106  | 80.0 to 120 | 1.46  | 20.0  |
| BD06839 | Iron, Dissolved      | mg/L  | -0.00183   | 0.0176   | 0.2   | 32.1   | 32.1   | 0.195    | 0.170 to 0.230  | 50.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD06838 | Iron, Total          | mg/L  | 0.000416   | 0.0176   | 0.2   | 14.9   | 14.1   | 0.200    | 0.170 to 0.230  | 450  | 70.0 to 130 | 5.52  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/5/23 09:23  
**Customer ID:**  
**Delivery Date:** 4/6/23 11:49

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

**Laboratory ID Number:** BD06838

| Sample  | Analysis               | Units | MB         |          |       |         |        | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|--------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB         | Limit    | Spike | MS      | MSD    | Standard | Limit              | Rec  | Limit       |       |       |
| BD06839 | Lead, Dissolved        | mg/L  | 0.0000118  | 0.000147 | 0.100 | 0.100   | 0.0955 | 0.0971   | 0.0850 to 0.115    | 100  | 70.0 to 130 | 4.60  | 20.0  |
| BD06838 | Lead, Total            | mg/L  | 0.0000027  | 0.000147 | 0.100 | 0.0958  | 0.0961 | 0.0945   | 0.0850 to 0.115    | 95.8 | 70.0 to 130 | 0.313 | 20.0  |
| BD06839 | Lithium, Dissolved     | mg/L  | 0.000245   | 0.0154   | 0.200 | 0.203   | 0.199  | 0.195    | 0.170 to 0.230     | 102  | 70.0 to 130 | 1.99  | 20.0  |
| BD06838 | Lithium, Total         | mg/L  | -0.000701  | 0.0154   | 0.200 | 0.204   | 0.201  | 0.199    | 0.170 to 0.230     | 102  | 70.0 to 130 | 1.48  | 20.0  |
| BD06839 | Magnesium, Dissolved   | mg/L  | 0.000      | 0.0462   | 5.00  | 11.0    | 11.0   | 4.93     | 4.25 to 5.75       | 97.6 | 70.0 to 130 | 0.00  | 20.0  |
| BD06838 | Magnesium, Total       | mg/L  | -0.00548   | 0.0462   | 5.00  | 6.45    | 6.43   | 4.93     | 4.25 to 5.75       | 99.8 | 70.0 to 130 | 0.311 | 20.0  |
| BD06839 | Manganese, Dissolved   | mg/L  | 0.0000167  | 0.00033  | 0.100 | 0.376   | 0.381  | 0.101    | 0.0850 to 0.115    | 94.0 | 70.0 to 130 | 1.32  | 20.0  |
| BD06838 | Manganese, Total       | mg/L  | 0.000200   | 0.00033  | 0.100 | 0.340   | 0.329  | 0.0980   | 0.0850 to 0.115    | 108  | 70.0 to 130 | 3.29  | 20.0  |
| BD06838 | Mercury, Total by CVAA | mg/L  | 2.000E-05  | 0.000500 | 0.004 | 0.00399 | 0.004  | 0.00403  | 0.00340 to 0.00460 | 99.8 | 70.0 to 130 | 0.250 | 20.0  |
| BD06839 | Molybdenum, Dissolved  | mg/L  | -0.000152  | 0.0100   | 0.2   | 0.197   | 0.194  | 0.195    | 0.170 to 0.230     | 98.5 | 70.0 to 130 | 1.53  | 20.0  |
| BD06838 | Molybdenum, Total      | mg/L  | -0.001     | 0.0100   | 0.2   | 0.200   | 0.201  | 0.201    | 0.170 to 0.230     | 100  | 70.0 to 130 | 0.499 | 20.0  |
| BD06839 | Potassium, Dissolved   | mg/L  | 0.00935    | 0.367    | 10.0  | 12.2    | 12.2   | 9.82     | 8.50 to 11.5       | 98.2 | 70.0 to 130 | 0.00  | 20.0  |
| BD06838 | Potassium, Total       | mg/L  | -0.00778   | 0.367    | 10.0  | 10.4    | 10.5   | 9.95     | 8.50 to 11.5       | 100  | 70.0 to 130 | 0.957 | 20.0  |
| BD06839 | Selenium, Dissolved    | mg/L  | 0.000102   | 0.00100  | 0.100 | 0.103   | 0.104  | 0.0997   | 0.0850 to 0.115    | 103  | 70.0 to 130 | 0.966 | 20.0  |
| BD06838 | Selenium, Total        | mg/L  | 0.0000454  | 0.00100  | 0.100 | 0.0988  | 0.0998 | 0.100    | 0.0850 to 0.115    | 98.8 | 70.0 to 130 | 1.01  | 20.0  |
| BD06839 | Silicon, Dissolved     | mg/L  | 0.000229   | 0.0440   | 1.00  | 10.2    | 10.2   | 0.997    | 0.850 to 1.15      | 94.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD06838 | Silicon, Total         | mg/L  | -0.000048  | 0.0440   | 1.00  | 5.47    | 5.48   | 1.02     | 0.850 to 1.15      | 107  | 70.0 to 130 | 0.183 | 20.0  |
| BD06839 | Sodium, Dissolved      | mg/L  | 0.0149     | 0.0880   | 5.00  | 78.3    | 78.6   | 5.23     | 4.25 to 5.75       | 76.0 | 70.0 to 130 | 0.382 | 20.0  |
| BD06838 | Sodium, Total          | mg/L  | 0.000332   | 0.0880   | 5.00  | 14.7    | 14.4   | 4.87     | 4.25 to 5.75       | 97.6 | 70.0 to 130 | 2.06  | 20.0  |
| BD06840 | Sulfate                | mg/L  | 0.346      | 2.0      | 20.0  | 20.6    | 20.3   | 19.7     | 18.0 to 22.0       | 103  | 80.0 to 120 | 1.47  | 20.0  |
| BD06839 | Thallium, Dissolved    | mg/L  | -0.0000001 | 0.000147 | 0.100 | 0.102   | 0.0974 | 0.0992   | 0.0850 to 0.115    | 102  | 70.0 to 130 | 4.61  | 20.0  |
| BD06838 | Thallium, Total        | mg/L  | 0.0000054  | 0.000147 | 0.100 | 0.0974  | 0.0989 | 0.0978   | 0.0850 to 0.115    | 97.4 | 70.0 to 130 | 1.53  | 20.0  |
| BD06838 | Total Organic Carbon   | mg/L  | 0.0766     | 1.00     | 10.0  | 12.5    | 12.5   | 24.8     |                    | 99.2 | 80.0 to 120 | 0.00  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/5/23 09:23

**Customer ID:**

**Delivery Date:** 4/6/23 11:49

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

**Laboratory ID Number:** BD06838

| Sample  | Analysis                  | Units      | MB     | MB Limit | Spike | MS   | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit   | Prec  | Prec Limit |
|---------|---------------------------|------------|--------|----------|-------|------|------------------|----------|----------------|-----|-------------|-------|------------|
| BD06839 | Alkalinity to pH 4.5      | mg CaCO3/L |        |          |       |      | 167              | 50.5     | 45.0 to 55.0   |     |             | 0.601 | 10.0       |
| BD06840 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.00   | 0.200    | 2.00  | 2.05 | -0.001           | 1.98     | 1.80 to 2.20   | 102 | 90.0 to 110 | 0.00  | 15.0       |
| BD06839 | Solids, Dissolved         | mg/L       | 0.0000 | 25.0     |       |      | 315              | 52.0     | 40.0 to 60.0   |     |             | 0.317 | 10.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-14

**Location Code:** WMWBARAP  
**Collected:** 4/5/23 11:35  
**Customer ID:**  
**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06839

| Name                                | Prepared     | Analyzed      | Vio Spec            | DF    | Results      | Units                               | MDL      | RL         | Q  |
|-------------------------------------|--------------|---------------|---------------------|-------|--------------|-------------------------------------|----------|------------|----|
| <b>Analytical Method: EPA 200.7</b> |              |               | <b>Analyst: ABB</b> |       |              | <b>Preparation Method: EPA 1638</b> |          |            |    |
| * Boron, Total                      | 4/7/23 14:10 | 4/11/23 12:45 |                     | 1.015 | 0.0587       | mg/L                                | 0.030000 | 0.1015     | J  |
| * Calcium, Total                    | 4/7/23 14:10 | 4/11/23 12:45 |                     | 1.015 | 9.78         | mg/L                                | 0.070035 | 0.406      |    |
| * Iron, Total                       | 4/7/23 14:10 | 4/11/23 14:29 |                     | 10.15 | 32.4         | mg/L                                | 0.08120  | 0.406      |    |
| * Lithium, Total                    | 4/7/23 14:10 | 4/11/23 12:45 |                     | 1.015 | Not Detected | mg/L                                | 0.007105 | 0.01999956 | U  |
| * Magnesium, Total                  | 4/7/23 14:10 | 4/11/23 12:45 |                     | 1.015 | 6.00         | mg/L                                | 0.021315 | 0.406      |    |
| * Molybdenum, Total                 | 4/7/23 14:10 | 4/11/23 12:45 |                     | 1.015 | Not Detected | mg/L                                | 0.005075 | 0.01015    | U  |
| * Silica, Total (calc.)             | 4/7/23 14:10 | 4/11/23 12:45 |                     | 1     | 20.1         | mg/L                                |          |            |    |
| * Silicon, Total                    | 4/7/23 14:10 | 4/11/23 12:45 |                     | 1.015 | 9.39         | mg/L                                | 0.02030  | 0.25375    |    |
| * Sodium, Total                     | 4/7/23 14:10 | 4/11/23 14:29 |                     | 10.15 | 76.0         | mg/L                                | 0.4060   | 4.06       |    |
| <b>Analytical Method: EPA 200.7</b> |              |               | <b>Analyst: ABB</b> |       |              |                                     |          |            |    |
| * Boron, Dissolved                  | 4/7/23 11:45 | 4/12/23 12:24 |                     | 1.015 | 0.0592       | mg/L                                | 0.030000 | 0.1015     | J  |
| * Calcium, Dissolved                | 4/7/23 11:45 | 4/12/23 12:24 |                     | 1.015 | 9.67         | mg/L                                | 0.070035 | 0.406      |    |
| * Iron, Dissolved                   | 4/7/23 11:45 | 4/12/23 14:24 |                     | 10.15 | 32.0         | mg/L                                | 0.08120  | 0.406      | RA |
| * Lithium, Dissolved                | 4/7/23 11:45 | 4/12/23 12:24 |                     | 1.015 | Not Detected | mg/L                                | 0.007105 | 0.01999956 | U  |
| * Magnesium, Dissolved              | 4/7/23 11:45 | 4/12/23 12:24 |                     | 1.015 | 6.12         | mg/L                                | 0.021315 | 0.406      |    |
| * Molybdenum, Dissolved             | 4/7/23 11:45 | 4/12/23 12:24 |                     | 1.015 | Not Detected | mg/L                                | 0.005075 | 0.01015    | U  |
| * Silica, Dissolved (calc.)         | 4/7/23 11:45 | 4/12/23 12:24 |                     | 1     | 19.8         | mg/L                                |          |            |    |
| * Silicon, Dissolved                | 4/7/23 11:45 | 4/12/23 12:24 |                     | 1.015 | 9.26         | mg/L                                | 0.02030  | 0.25375    |    |
| * Sodium, Dissolved                 | 4/7/23 11:45 | 4/12/23 14:24 |                     | 10.15 | 74.5         | mg/L                                | 0.4060   | 4.06       |    |
| <b>Analytical Method: EPA 200.8</b> |              |               | <b>Analyst: DLJ</b> |       |              | <b>Preparation Method: EPA 1638</b> |          |            |    |
| * Antimony, Total                   | 4/7/23 14:10 | 4/7/23 18:29  |                     | 1.015 | Not Detected | mg/L                                | 0.000710 | 0.001015   | U  |
| * Aluminum, Total                   | 4/7/23 14:10 | 4/7/23 18:29  |                     | 1.015 | 0.215        | mg/L                                | 0.009135 | 0.05075    |    |
| * Arsenic, Total                    | 4/7/23 14:10 | 4/7/23 18:29  |                     | 1.015 | 0.0170       | mg/L                                | 0.000112 | 0.000203   |    |
| * Barium, Total                     | 4/7/23 14:10 | 4/7/23 18:29  |                     | 1.015 | 0.0594       | mg/L                                | 0.000508 | 0.001015   |    |
| * Beryllium, Total                  | 4/7/23 14:10 | 4/7/23 18:29  |                     | 1.015 | Not Detected | mg/L                                | 0.000406 | 0.001015   | U  |
| * Cadmium, Total                    | 4/7/23 14:10 | 4/7/23 18:29  |                     | 1.015 | Not Detected | mg/L                                | 0.000068 | 0.000203   | U  |
| * Chromium, Total                   | 4/7/23 14:10 | 4/7/23 18:29  |                     | 1.015 | 0.00336      | mg/L                                | 0.000203 | 0.001015   |    |
| * Cobalt, Total                     | 4/7/23 14:10 | 4/7/23 18:29  |                     | 1.015 | 0.00119      | mg/L                                | 0.000068 | 0.000203   |    |
| * Lead, Total                       | 4/7/23 14:10 | 4/7/23 18:29  |                     | 1.015 | 0.000110     | mg/L                                | 0.000068 | 0.000203   | J  |
| * Manganese, Total                  | 4/7/23 14:10 | 4/7/23 18:29  |                     | 1.015 | 0.285        | mg/L                                | 0.000152 | 0.001015   |    |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-14

**Location Code:** WMWBARAP  
**Collected:** 4/5/23 11:35  
**Customer ID:**  
**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06839

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/7/23 14:10  | 4/7/23 18:29        |          | 1.015 | 2.46         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/7/23 14:10  | 4/7/23 18:29        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/7/23 14:10  | 4/7/23 18:29        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:54        |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:54        |          | 1.015 | Not Detected | mg/L       | 0.009135 | 0.05075  | U |
| * Arsenic, Dissolved                   | 4/7/23 11:45  | 4/7/23 14:54        |          | 1.015 | 0.0179       | mg/L       | 0.000112 | 0.000203 |   |
| * Barium, Dissolved                    | 4/7/23 11:45  | 4/7/23 14:54        |          | 1.015 | 0.0563       | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/7/23 11:45  | 4/7/23 14:54        |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/7/23 11:45  | 4/7/23 14:54        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:54        |          | 1.015 | 0.00302      | mg/L       | 0.000203 | 0.001015 |   |
| * Cobalt, Dissolved                    | 4/7/23 11:45  | 4/7/23 14:54        |          | 1.015 | 0.00108      | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/7/23 11:45  | 4/7/23 14:54        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/7/23 11:45  | 4/7/23 14:54        |          | 1.015 | 0.282        | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/7/23 11:45  | 4/7/23 14:54        |          | 1.015 | 2.38         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:54        |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/7/23 11:45  | 4/7/23 14:54        |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/13/23 17:00 | 4/13/23 21:19       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/10/23 15:12 | 4/10/23 15:12       |          | 1     | Not Detected | mg/L as N  | 0.20     | 0.3      | U |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 4/18/23 10:05 | 4/18/23 12:08       |          | 1     | 166          | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/10/23 12:00 | 4/12/23 09:20       |          | 1     | 316          | mg/L       |          | 25       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 4/18/23 10:05 | 4/18/23 12:08       |          | 1     | 166          | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 4/18/23 10:05 | 4/18/23 12:08       |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 4/12/23 17:43 | 4/12/23 17:43       |          | 1     | 17.2         | mg/L       | 1.00     | 2        |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-14

**Location Code:** WMWBARAP

**Collected:** 4/5/23 11:35

**Customer ID:**

**Submittal Date:** 4/6/23 11:49

**Laboratory ID Number:** BD06839

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Chloride                                   | 4/12/23 13:18 | 4/12/23 13:18       |          | 4  | 47.0    | mg/L  | 2.00 | 2     |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: CES</b> |          |    |         |       |      |       |    |
| * Fluoride                                   | 4/13/23 11:59 | 4/13/23 11:59       |          | 1  | 0.127   | mg/L  | 0.06 | 0.125 |    |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |         |       |      |       |    |
| * Sulfate                                    | 4/17/23 15:35 | 4/17/23 15:35       |          | 5  | 112     | mg/L  | 3.0  | 10    |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: DKG</b> |          |    |         |       |      |       |    |
| Conductivity                                 | 4/5/23 11:32  | 4/5/23 11:32        |          |    | 492.29  | uS/cm |      |       | FA |
| pH   | 4/5/23 11:32  | 4/5/23 11:32        |          |    | 5.93    | SU    |      |       | FA |
| Temperature                                  | 4/5/23 11:32  | 4/5/23 11:32        |          |    | 21.70   | C     |      |       | FA |
| Turbidity                                    | 4/5/23 11:32  | 4/5/23 11:32        |          |    | 1.88    | NTU   |      |       | FA |
| Sulfide                                      | 4/5/23 11:32  | 4/5/23 11:32        |          |    | 0       | mg/L  |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/5/23 11:35

**Customer ID:**

**Delivery Date:** 4/6/23 11:49

**Description:** Barry Ash Pond - MW-14

**Laboratory ID Number:** BD06839

| Sample  | Analysis             | Units | MB         | MB       |       | Spike  | MS     | MSD    | Standard        |       | Rec         |       | Prec |
|---------|----------------------|-------|------------|----------|-------|--------|--------|--------|-----------------|-------|-------------|-------|------|
|         |                      |       |            | Limit    |       |        |        |        | Standard        | Limit | Rec         | Limit |      |
| BD06839 | Aluminum, Dissolved  | mg/L  | 0.000353   | 0.0198   | 0.100 | 0.106  | 0.107  | 0.0999 | 0.0850 to 0.115 | 106   | 70.0 to 130 | 0.939 | 20.0 |
| BD06840 | Aluminum, Total      | mg/L  | 0.000446   | 0.0198   | 0.100 | 0.104  | 0.102  | 0.104  | 0.0850 to 0.115 | 104   | 70.0 to 130 | 1.94  | 20.0 |
| BD06839 | Antimony, Dissolved  | mg/L  | 0.000377   | 0.00100  | 0.100 | 0.0917 | 0.0904 | 0.0898 | 0.0850 to 0.115 | 91.7  | 70.0 to 130 | 1.43  | 20.0 |
| BD06840 | Antimony, Total      | mg/L  | 0.000261   | 0.00100  | 0.100 | 0.0886 | 0.0889 | 0.0908 | 0.0850 to 0.115 | 88.6  | 70.0 to 130 | 0.338 | 20.0 |
| BD06839 | Arsenic, Dissolved   | mg/L  | 0.0000113  | 0.000200 | 0.100 | 0.116  | 0.117  | 0.0990 | 0.0850 to 0.115 | 98.1  | 70.0 to 130 | 0.858 | 20.0 |
| BD06840 | Arsenic, Total       | mg/L  | 0.0000234  | 0.000200 | 0.100 | 0.0970 | 0.0973 | 0.0971 | 0.0850 to 0.115 | 97.0  | 70.0 to 130 | 0.309 | 20.0 |
| BD06839 | Barium, Dissolved    | mg/L  | 0.0000105  | 0.00100  | 0.100 | 0.149  | 0.147  | 0.0944 | 0.0850 to 0.115 | 92.7  | 70.0 to 130 | 1.35  | 20.0 |
| BD06840 | Barium, Total        | mg/L  | 0.0000051  | 0.00100  | 0.100 | 0.0930 | 0.0960 | 0.0944 | 0.0850 to 0.115 | 93.0  | 70.0 to 130 | 3.17  | 20.0 |
| BD06839 | Beryllium, Dissolved | mg/L  | 0.0000117  | 0.000880 | 0.100 | 0.0966 | 0.0920 | 0.0908 | 0.0850 to 0.115 | 96.6  | 70.0 to 130 | 4.88  | 20.0 |
| BD06840 | Beryllium, Total     | mg/L  | 0.0000000  | 0.000880 | 0.100 | 0.0932 | 0.0957 | 0.0936 | 0.0850 to 0.115 | 93.2  | 70.0 to 130 | 2.65  | 20.0 |
| BD06839 | Boron, Dissolved     | mg/L  | -0.000075  | 0.0650   | 1.00  | 1.08   | 1.08   | 1.00   | 0.850 to 1.15   | 102   | 70.0 to 130 | 0.00  | 20.0 |
| BD06840 | Boron, Total         | mg/L  | -0.000529  | 0.0650   | 1.00  | 1.01   | 1.01   | 1.02   | 0.850 to 1.15   | 101   | 70.0 to 130 | 0.00  | 20.0 |
| BD06839 | Cadmium, Dissolved   | mg/L  | 0.0000046  | 0.000147 | 0.100 | 0.0986 | 0.0955 | 0.0982 | 0.0850 to 0.115 | 98.6  | 70.0 to 130 | 3.19  | 20.0 |
| BD06840 | Cadmium, Total       | mg/L  | 0.0000044  | 0.000147 | 0.100 | 0.0955 | 0.0956 | 0.0973 | 0.0850 to 0.115 | 95.5  | 70.0 to 130 | 0.105 | 20.0 |
| BD06839 | Calcium, Dissolved   | mg/L  | -0.00493   | 0.152    | 5.00  | 14.4   | 14.3   | 4.94   | 4.25 to 5.75    | 94.6  | 70.0 to 130 | 0.697 | 20.0 |
| BD06840 | Calcium, Total       | mg/L  | -0.0204    | 0.152    | 5.00  | 4.93   | 4.92   | 4.92   | 4.25 to 5.75    | 98.6  | 70.0 to 130 | 0.203 | 20.0 |
| BD06840 | Chloride             | mg/L  | 0.0330     | 1.00     | 10.0  | 10.2   | 10.2   | 10.0   | 9.00 to 11.0    | 102   | 80.0 to 120 | 0.00  | 20.0 |
| BD06839 | Chromium, Dissolved  | mg/L  | -0.0000370 | 0.000440 | 0.100 | 0.0988 | 0.0992 | 0.0995 | 0.0850 to 0.115 | 95.8  | 70.0 to 130 | 0.404 | 20.0 |
| BD06840 | Chromium, Total      | mg/L  | -0.0000616 | 0.000440 | 0.100 | 0.0991 | 0.0974 | 0.0981 | 0.0850 to 0.115 | 99.1  | 70.0 to 130 | 1.73  | 20.0 |
| BD06839 | Cobalt, Dissolved    | mg/L  | -0.0000017 | 0.000147 | 0.100 | 0.101  | 0.101  | 0.101  | 0.0850 to 0.115 | 99.9  | 70.0 to 130 | 0.00  | 20.0 |
| BD06840 | Cobalt, Total        | mg/L  | -0.0000010 | 0.000147 | 0.100 | 0.101  | 0.0991 | 0.100  | 0.0850 to 0.115 | 101   | 70.0 to 130 | 1.90  | 20.0 |
| BD06840 | Fluoride             | mg/L  | 0.000729   | 0.125    | 2.50  | 2.65   | 2.65   | 2.58   | 2.25 to 2.75    | 106   | 80.0 to 120 | 0.00  | 20.0 |
| BD06839 | Iron, Dissolved      | mg/L  | -0.00183   | 0.0176   | 0.2   | 32.1   | 32.1   | 0.195  | 0.170 to 0.230  | 50.0  | 70.0 to 130 | 0.00  | 20.0 |
| BD06840 | Iron, Total          | mg/L  | 0.000825   | 0.0176   | 0.2   | 0.201  | 0.199  | 0.200  | 0.170 to 0.230  | 100   | 70.0 to 130 | 1.00  | 20.0 |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/5/23 11:35  
**Customer ID:**  
**Delivery Date:** 4/6/23 11:49

**Description:** Barry Ash Pond - MW-14

**Laboratory ID Number:** BD06839

| Sample  | Analysis               | Units | MB         |          | Spike | MS      | MSD     | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB         | Limit    |       |         |         | Standard | Limit              | Rec  | Limit       |       |       |
| BD06839 | Lead, Dissolved        | mg/L  | 0.0000118  | 0.000147 | 0.100 | 0.100   | 0.0955  | 0.0971   | 0.0850 to 0.115    | 100  | 70.0 to 130 | 4.60  | 20.0  |
| BD06840 | Lead, Total            | mg/L  | 0.0000054  | 0.000147 | 0.100 | 0.0954  | 0.0906  | 0.0962   | 0.0850 to 0.115    | 95.4 | 70.0 to 130 | 5.16  | 20.0  |
| BD06839 | Lithium, Dissolved     | mg/L  | 0.000245   | 0.0154   | 0.200 | 0.203   | 0.199   | 0.195    | 0.170 to 0.230     | 102  | 70.0 to 130 | 1.99  | 20.0  |
| BD06840 | Lithium, Total         | mg/L  | 0.000132   | 0.0154   | 0.200 | 0.198   | 0.197   | 0.198    | 0.170 to 0.230     | 99.0 | 70.0 to 130 | 0.506 | 20.0  |
| BD06839 | Magnesium, Dissolved   | mg/L  | 0.000      | 0.0462   | 5.00  | 11.0    | 11.0    | 4.93     | 4.25 to 5.75       | 97.6 | 70.0 to 130 | 0.00  | 20.0  |
| BD06840 | Magnesium, Total       | mg/L  | 0.00139    | 0.0462   | 5.00  | 4.86    | 4.89    | 4.90     | 4.25 to 5.75       | 97.2 | 70.0 to 130 | 0.615 | 20.0  |
| BD06839 | Manganese, Dissolved   | mg/L  | 0.0000167  | 0.00033  | 0.100 | 0.376   | 0.381   | 0.101    | 0.0850 to 0.115    | 94.0 | 70.0 to 130 | 1.32  | 20.0  |
| BD06840 | Manganese, Total       | mg/L  | 0.0000432  | 0.00033  | 0.100 | 0.101   | 0.0996  | 0.101    | 0.0850 to 0.115    | 101  | 70.0 to 130 | 1.40  | 20.0  |
| BD06840 | Mercury, Total by CVAA | mg/L  | 2.000E-05  | 0.000500 | 0.004 | 0.00411 | 0.00413 | 0.00408  | 0.00340 to 0.00460 | 103  | 70.0 to 130 | 0.485 | 20.0  |
| BD06839 | Molybdenum, Dissolved  | mg/L  | -0.000152  | 0.0100   | 0.2   | 0.197   | 0.194   | 0.195    | 0.170 to 0.230     | 98.5 | 70.0 to 130 | 1.53  | 20.0  |
| BD06840 | Molybdenum, Total      | mg/L  | -0.001     | 0.0100   | 0.2   | 0.201   | 0.200   | 0.200    | 0.170 to 0.230     | 100  | 70.0 to 130 | 0.499 | 20.0  |
| BD06839 | Potassium, Dissolved   | mg/L  | 0.00935    | 0.367    | 10.0  | 12.2    | 12.2    | 9.82     | 8.50 to 11.5       | 98.2 | 70.0 to 130 | 0.00  | 20.0  |
| BD06840 | Potassium, Total       | mg/L  | -0.00821   | 0.367    | 10.0  | 10.3    | 9.94    | 10.3     | 8.50 to 11.5       | 103  | 70.0 to 130 | 3.56  | 20.0  |
| BD06839 | Selenium, Dissolved    | mg/L  | 0.000102   | 0.00100  | 0.100 | 0.103   | 0.104   | 0.0997   | 0.0850 to 0.115    | 103  | 70.0 to 130 | 0.966 | 20.0  |
| BD06840 | Selenium, Total        | mg/L  | 0.000107   | 0.00100  | 0.100 | 0.100   | 0.0962  | 0.100    | 0.0850 to 0.115    | 100  | 70.0 to 130 | 3.87  | 20.0  |
| BD06839 | Silicon, Dissolved     | mg/L  | 0.000229   | 0.0440   | 1.00  | 10.2    | 10.2    | 0.997    | 0.850 to 1.15      | 94.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD06840 | Silicon, Total         | mg/L  | -0.000383  | 0.0440   | 1.00  | 1.00    | 1.00    | 1.01     | 0.850 to 1.15      | 100  | 70.0 to 130 | 0.00  | 20.0  |
| BD06839 | Sodium, Dissolved      | mg/L  | 0.0149     | 0.0880   | 5.00  | 78.3    | 78.6    | 5.23     | 4.25 to 5.75       | 76.0 | 70.0 to 130 | 0.382 | 20.0  |
| BD06840 | Sodium, Total          | mg/L  | 0.00482    | 0.0880   | 5.00  | 4.79    | 4.79    | 4.86     | 4.25 to 5.75       | 95.8 | 70.0 to 130 | 0.00  | 20.0  |
| BD06840 | Sulfate                | mg/L  | 0.346      | 2.0      | 20.0  | 20.6    | 20.3    | 19.7     | 18.0 to 22.0       | 103  | 80.0 to 120 | 1.47  | 20.0  |
| BD06839 | Thallium, Dissolved    | mg/L  | -0.0000001 | 0.000147 | 0.100 | 0.102   | 0.0974  | 0.0992   | 0.0850 to 0.115    | 102  | 70.0 to 130 | 4.61  | 20.0  |
| BD06840 | Thallium, Total        | mg/L  | 0.0000009  | 0.000147 | 0.100 | 0.0992  | 0.0942  | 0.0992   | 0.0850 to 0.115    | 99.2 | 70.0 to 130 | 5.17  | 20.0  |
| BD06840 | Total Organic Carbon   | mg/L  | 0.0982     | 1.00     | 10.0  | 9.21    | 9.56    | 23.8     |                    | 92.1 | 80.0 to 120 | 3.73  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/5/23 11:35

**Customer ID:**

**Delivery Date:** 4/6/23 11:49

**Description:** Barry Ash Pond - MW-14

**Laboratory ID Number:** BD06839

| Sample  | Analysis                  | Units      | MB     | MB Limit | Spike | MS   | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit   | Prec  | Prec Limit |
|---------|---------------------------|------------|--------|----------|-------|------|------------------|----------|----------------|-----|-------------|-------|------------|
| BD06839 | Alkalinity to pH 4.5      | mg CaCO3/L |        |          |       |      | 167              | 50.5     | 45.0 to 55.0   |     |             | 0.601 | 10.0       |
| BD06840 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.00   | 0.200    | 2.00  | 2.05 | -0.001           | 1.98     | 1.80 to 2.20   | 102 | 90.0 to 110 | 0.00  | 15.0       |
| BD06839 | Solids, Dissolved         | mg/L       | 0.0000 | 25.0     |       |      | 315              | 52.0     | 40.0 to 60.0   |     |             | 0.317 | 10.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond Field Blank-4

**Location Code:** WMWBARAPFB  
**Collected:** 4/5/23 12:30  
**Customer ID:**  
**Submittal Date:** 4/6/23 11:50

**Laboratory ID Number:** BD06840

| Name                                | Prepared      | Analyzed      | Vio Spec            | DF    | Results                             | Units     | MDL      | RL         | Q |
|-------------------------------------|---------------|---------------|---------------------|-------|-------------------------------------|-----------|----------|------------|---|
| <b>Analytical Method: EPA 200.7</b> |               |               | <b>Analyst: ABB</b> |       | <b>Preparation Method: EPA 1638</b> |           |          |            |   |
| * Boron, Total                      | 4/7/23 14:10  | 4/11/23 12:48 |                     | 1.015 | Not Detected                        | mg/L      | 0.030000 | 0.1015     | U |
| * Calcium, Total                    | 4/7/23 14:10  | 4/11/23 12:48 |                     | 1.015 | Not Detected                        | mg/L      | 0.070035 | 0.406      | U |
| * Iron, Total                       | 4/7/23 14:10  | 4/11/23 12:48 |                     | 1.015 | Not Detected                        | mg/L      | 0.008120 | 0.0406     | U |
| * Lithium, Total                    | 4/7/23 14:10  | 4/11/23 12:48 |                     | 1.015 | Not Detected                        | mg/L      | 0.007105 | 0.01999956 | U |
| * Magnesium, Total                  | 4/7/23 14:10  | 4/11/23 12:48 |                     | 1.015 | Not Detected                        | mg/L      | 0.021315 | 0.406      | U |
| * Molybdenum, Total                 | 4/7/23 14:10  | 4/11/23 12:48 |                     | 1.015 | Not Detected                        | mg/L      | 0.005075 | 0.01015    | U |
| * Silica, Total (calc.)             | 4/7/23 14:10  | 4/11/23 12:48 |                     | 1     | Not Detected                        | mg/L      |          |            |   |
| * Silicon, Total                    | 4/7/23 14:10  | 4/11/23 12:48 |                     | 1.015 | Not Detected                        | mg/L      | 0.02030  | 0.25375    | U |
| * Sodium, Total                     | 4/7/23 14:10  | 4/11/23 12:48 |                     | 1.015 | Not Detected                        | mg/L      | 0.04060  | 0.406      | U |
| <b>Analytical Method: EPA 200.8</b> |               |               | <b>Analyst: DLJ</b> |       | <b>Preparation Method: EPA 1638</b> |           |          |            |   |
| * Antimony, Total                   | 4/7/23 14:10  | 4/7/23 18:32  |                     | 1.015 | Not Detected                        | mg/L      | 0.000710 | 0.001015   | U |
| * Aluminum, Total                   | 4/7/23 14:10  | 4/7/23 18:32  |                     | 1.015 | Not Detected                        | mg/L      | 0.009135 | 0.05075    | U |
| * Arsenic, Total                    | 4/7/23 14:10  | 4/7/23 18:32  |                     | 1.015 | Not Detected                        | mg/L      | 0.000112 | 0.000203   | U |
| * Barium, Total                     | 4/7/23 14:10  | 4/7/23 18:32  |                     | 1.015 | Not Detected                        | mg/L      | 0.000508 | 0.001015   | U |
| * Beryllium, Total                  | 4/7/23 14:10  | 4/7/23 18:32  |                     | 1.015 | Not Detected                        | mg/L      | 0.000406 | 0.001015   | U |
| * Cadmium, Total                    | 4/7/23 14:10  | 4/7/23 18:32  |                     | 1.015 | Not Detected                        | mg/L      | 0.000068 | 0.000203   | U |
| * Chromium, Total                   | 4/7/23 14:10  | 4/7/23 18:32  |                     | 1.015 | Not Detected                        | mg/L      | 0.000203 | 0.001015   | U |
| * Cobalt, Total                     | 4/7/23 14:10  | 4/7/23 18:32  |                     | 1.015 | Not Detected                        | mg/L      | 0.000068 | 0.000203   | U |
| * Lead, Total                       | 4/7/23 14:10  | 4/7/23 18:32  |                     | 1.015 | Not Detected                        | mg/L      | 0.000068 | 0.000203   | U |
| * Manganese, Total                  | 4/7/23 14:10  | 4/7/23 18:32  |                     | 1.015 | Not Detected                        | mg/L      | 0.000152 | 0.001015   | U |
| * Potassium, Total                  | 4/7/23 14:10  | 4/7/23 18:32  |                     | 1.015 | Not Detected                        | mg/L      | 0.169505 | 0.5075     | U |
| * Selenium, Total                   | 4/7/23 14:10  | 4/7/23 18:32  |                     | 1.015 | Not Detected                        | mg/L      | 0.000508 | 0.001015   | U |
| * Thallium, Total                   | 4/7/23 14:10  | 4/7/23 18:32  |                     | 1.015 | Not Detected                        | mg/L      | 0.000068 | 0.000203   | U |
| <b>Analytical Method: EPA 245.1</b> |               |               | <b>Analyst: CRB</b> |       |                                     |           |          |            |   |
| * Mercury, Total by CVAA            | 4/13/23 17:00 | 4/13/23 21:23 |                     | 1     | Not Detected                        | mg/L      | 0.0003   | 0.0005     | U |
| <b>Analytical Method: EPA 353.2</b> |               |               | <b>Analyst: SC</b>  |       |                                     |           |          |            |   |
| * Nitrogen, Nitrate/Nitrite         | 4/10/23 15:13 | 4/10/23 15:13 |                     | 1     | Not Detected                        | mg/L as N | 0.20     | 0.3        | U |
| <b>Analytical Method: SM 2540C</b>  |               |               | <b>Analyst: CNJ</b> |       |                                     |           |          |            |   |
| * Solids, Dissolved                 | 4/10/23 12:00 | 4/12/23 09:20 |                     | 1     | Not Detected                        | mg/L      |          | 25         | U |

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

**Comments:**



# Certificate Of Analysis

**Description:** Barry Ash Pond Field Blank-4

**Location Code:** WMWBARAPFB

**Collected:** 4/5/23 12:30

**Customer ID:**

**Submittal Date:** 4/6/23 11:50

**Laboratory ID Number:** BD06840

| Name                                       | Prepared      | Analyzed            | Vio Spec | DF | Results      | Units | MDL  | RL    | Q |
|--|---------------|---------------------|----------|----|--------------|-------|------|-------|---|
| <b>Analytical Method: SM 5310 B</b>        |               | <b>Analyst: SC</b>  |          |    |              |       |      |       |   |
| * Total Organic Carbon                     | 4/12/23 17:57 | 4/12/23 17:57       |          | 1  | Not Detected | mg/L  | 1.00 | 2     | U |
| <b>Analytical Method: SM4500Cl E</b>       |               | <b>Analyst: CES</b> |          |    |              |       |      |       |   |
| * Chloride                                 | 4/12/23 13:14 | 4/12/23 13:14       |          | 1  | Not Detected | mg/L  | 0.50 | 0.5   | U |
| <b>Analytical Method: SM4500F G 2017</b>   |               | <b>Analyst: CES</b> |          |    |              |       |      |       |   |
| * Fluoride                                 | 4/13/23 12:00 | 4/13/23 12:00       |          | 1  | Not Detected | mg/L  | 0.06 | 0.125 | U |
| <b>Analytical Method: SM4500SO4 E 2011</b> |               | <b>Analyst: JCC</b> |          |    |              |       |      |       |   |
| * Sulfate                                  | 4/17/23 15:30 | 4/17/23 15:30       |          | 1  | Not Detected | mg/L  | 0.6  | 2     | U |

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

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**Comments:**

# Batch QC Summary

**Customer Account:** WMWBARAPFB

**Sample Date:** 4/5/23 12:30

**Customer ID:**

**Delivery Date:** 4/6/23 11:50

**Description:** Barry Ash Pond Field Blank-4

**Laboratory ID Number:** BD06840

| Sample  | Analysis               | Units | MB         |          | Spike | MS      | MSD     | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB         | Limit    |       |         |         | Standard | Limit              | Rec  | Limit       |       |       |
| BD06840 | Aluminum, Total        | mg/L  | 0.000446   | 0.0198   | 0.100 | 0.104   | 0.102   | 0.104    | 0.0850 to 0.115    | 104  | 70.0 to 130 | 1.94  | 20.0  |
| BD06840 | Antimony, Total        | mg/L  | 0.000261   | 0.00100  | 0.100 | 0.0886  | 0.0889  | 0.0908   | 0.0850 to 0.115    | 88.6 | 70.0 to 130 | 0.338 | 20.0  |
| BD06840 | Arsenic, Total         | mg/L  | 0.0000234  | 0.000200 | 0.100 | 0.0970  | 0.0973  | 0.0971   | 0.0850 to 0.115    | 97.0 | 70.0 to 130 | 0.309 | 20.0  |
| BD06840 | Barium, Total          | mg/L  | 0.0000051  | 0.00100  | 0.100 | 0.0930  | 0.0960  | 0.0944   | 0.0850 to 0.115    | 93.0 | 70.0 to 130 | 3.17  | 20.0  |
| BD06840 | Beryllium, Total       | mg/L  | 0.0000000  | 0.000880 | 0.100 | 0.0932  | 0.0957  | 0.0936   | 0.0850 to 0.115    | 93.2 | 70.0 to 130 | 2.65  | 20.0  |
| BD06840 | Boron, Total           | mg/L  | -0.000529  | 0.0650   | 1.00  | 1.01    | 1.01    | 1.02     | 0.850 to 1.15      | 101  | 70.0 to 130 | 0.00  | 20.0  |
| BD06840 | Cadmium, Total         | mg/L  | 0.0000044  | 0.000147 | 0.100 | 0.0955  | 0.0956  | 0.0973   | 0.0850 to 0.115    | 95.5 | 70.0 to 130 | 0.105 | 20.0  |
| BD06840 | Calcium, Total         | mg/L  | -0.0204    | 0.152    | 5.00  | 4.93    | 4.92    | 4.92     | 4.25 to 5.75       | 98.6 | 70.0 to 130 | 0.203 | 20.0  |
| BD06840 | Chloride               | mg/L  | 0.0330     | 1.00     | 10.0  | 10.2    | 10.2    | 10.0     | 9.00 to 11.0       | 102  | 80.0 to 120 | 0.00  | 20.0  |
| BD06840 | Chromium, Total        | mg/L  | -0.0000616 | 0.000440 | 0.100 | 0.0991  | 0.0974  | 0.0981   | 0.0850 to 0.115    | 99.1 | 70.0 to 130 | 1.73  | 20.0  |
| BD06840 | Cobalt, Total          | mg/L  | -0.0000010 | 0.000147 | 0.100 | 0.101   | 0.0991  | 0.100    | 0.0850 to 0.115    | 101  | 70.0 to 130 | 1.90  | 20.0  |
| BD06840 | Fluoride               | mg/L  | 0.000729   | 0.125    | 2.50  | 2.65    | 2.65    | 2.58     | 2.25 to 2.75       | 106  | 80.0 to 120 | 0.00  | 20.0  |
| BD06840 | Iron, Total            | mg/L  | 0.000825   | 0.0176   | 0.2   | 0.201   | 0.199   | 0.200    | 0.170 to 0.230     | 100  | 70.0 to 130 | 1.00  | 20.0  |
| BD06840 | Lead, Total            | mg/L  | 0.0000054  | 0.000147 | 0.100 | 0.0954  | 0.0906  | 0.0962   | 0.0850 to 0.115    | 95.4 | 70.0 to 130 | 5.16  | 20.0  |
| BD06840 | Lithium, Total         | mg/L  | 0.000132   | 0.0154   | 0.200 | 0.198   | 0.197   | 0.198    | 0.170 to 0.230     | 99.0 | 70.0 to 130 | 0.506 | 20.0  |
| BD06840 | Magnesium, Total       | mg/L  | 0.00139    | 0.0462   | 5.00  | 4.86    | 4.89    | 4.90     | 4.25 to 5.75       | 97.2 | 70.0 to 130 | 0.615 | 20.0  |
| BD06840 | Manganese, Total       | mg/L  | 0.0000432  | 0.00033  | 0.100 | 0.101   | 0.0996  | 0.101    | 0.0850 to 0.115    | 101  | 70.0 to 130 | 1.40  | 20.0  |
| BD06840 | Mercury, Total by CVAA | mg/L  | 2.000E-05  | 0.000500 | 0.004 | 0.00411 | 0.00413 | 0.00408  | 0.00340 to 0.00460 | 103  | 70.0 to 130 | 0.485 | 20.0  |
| BD06840 | Molybdenum, Total      | mg/L  | -0.001     | 0.0100   | 0.2   | 0.201   | 0.200   | 0.200    | 0.170 to 0.230     | 100  | 70.0 to 130 | 0.499 | 20.0  |
| BD06840 | Potassium, Total       | mg/L  | -0.00821   | 0.367    | 10.0  | 10.3    | 9.94    | 10.3     | 8.50 to 11.5       | 103  | 70.0 to 130 | 3.56  | 20.0  |
| BD06840 | Selenium, Total        | mg/L  | 0.000107   | 0.00100  | 0.100 | 0.100   | 0.0962  | 0.100    | 0.0850 to 0.115    | 100  | 70.0 to 130 | 3.87  | 20.0  |
| BD06840 | Silicon, Total         | mg/L  | -0.000383  | 0.0440   | 1.00  | 1.00    | 1.00    | 1.01     | 0.850 to 1.15      | 100  | 70.0 to 130 | 0.00  | 20.0  |
| BD06840 | Sodium, Total          | mg/L  | 0.00482    | 0.0880   | 5.00  | 4.79    | 4.79    | 4.86     | 4.25 to 5.75       | 95.8 | 70.0 to 130 | 0.00  | 20.0  |
| BD06840 | Sulfate                | mg/L  | 0.346      | 2.0      | 20.0  | 20.6    | 20.3    | 19.7     | 18.0 to 22.0       | 103  | 80.0 to 120 | 1.47  | 20.0  |

**Comments:**

# Batch QC Summary

**Customer Account:** WMWBARAPFB

**Sample Date:** 4/5/23 12:30

**Customer ID:**

**Delivery Date:** 4/6/23 11:50

**Description:** Barry Ash Pond Field Blank-4

**Laboratory ID Number:** BD06840

| Sample  | Analysis             | Units | MB        | MB       |       |        |        | Standard |                 | Rec  |             | Prec |       |
|---------|----------------------|-------|-----------|----------|-------|--------|--------|----------|-----------------|------|-------------|------|-------|
|         |                      |       |           | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec  | Limit       | Prec | Limit |
| BD06840 | Thallium, Total      | mg/L  | 0.0000009 | 0.000147 | 0.100 | 0.0992 | 0.0942 | 0.0992   | 0.0850 to 0.115 | 99.2 | 70.0 to 130 | 5.17 | 20.0  |
| BD06840 | Total Organic Carbon | mg/L  | 0.0982    | 1.00     | 10.0  | 9.21   | 9.56   | 23.8     |                 | 92.1 | 80.0 to 120 | 3.73 | 20.0  |

**Comments:**

## Batch QC Summary

**Customer Account:** WMWBARAPFB

**Sample Date:** 4/5/23 12:30

**Customer ID:**

**Delivery Date:** 4/6/23 11:50

**Description:** Barry Ash Pond Field Blank-4

**Laboratory ID Number:** BD06840

| Sample  | Analysis                  | Units     | MB     | MB<br>Limit | Spike | MS   | Sample<br>Duplicate | Standard<br>Standard | Standard<br>Limit | Rec<br>Rec | Rec<br>Limit | Prec  | Prec<br>Limit |
|---------|---------------------------|-----------|--------|-------------|-------|------|---------------------|----------------------|-------------------|------------|--------------|-------|---------------|
| BD06840 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.00   | 0.200       | 2.00  | 2.05 | -0.001              | 1.98                 | 1.80 to 2.20      | 102        | 90.0 to 110  | 0.00  | 15.0          |
| BD06839 | Solids, Dissolved         | mg/L      | 0.0000 | 25.0        |       |      | 315                 | 52.0                 | 40.0 to 60.0      |            |              | 0.317 | 10.0          |

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**Comments:**

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-20V

**Location Code:** WMWBARAP  
**Collected:** 4/24/23 12:58  
**Customer ID:**  
**Submittal Date:** 4/26/23 10:18

**Laboratory ID Number:** BD08112

| Name                                | Prepared      | Analyzed      | Vio Spec            | DF    | Results                             | Units | MDL      | RL         | Q |
|-------------------------------------|---------------|---------------|---------------------|-------|-------------------------------------|-------|----------|------------|---|
| <b>Analytical Method: EPA 200.7</b> |               |               | <b>Analyst: ABB</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Boron, Total                      | 4/28/23 06:47 | 5/4/23 10:06  |                     | 1.015 | Not Detected                        | mg/L  | 0.030000 | 0.1015     | U |
| * Calcium, Total                    | 4/28/23 06:47 | 5/4/23 10:06  |                     | 1.015 | 24.3                                | mg/L  | 0.070035 | 0.406      |   |
| * Iron, Total                       | 4/28/23 06:47 | 5/4/23 10:06  |                     | 1.015 | 2.06                                | mg/L  | 0.008120 | 0.0406     |   |
| * Lithium, Total                    | 4/28/23 06:47 | 5/4/23 10:06  |                     | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |
| * Magnesium, Total                  | 4/28/23 06:47 | 5/4/23 10:06  |                     | 1.015 | 4.81                                | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Total                 | 4/28/23 06:47 | 5/4/23 10:06  |                     | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Total (calc.)             | 4/28/23 06:47 | 5/4/23 10:06  |                     | 1     | 8.26                                | mg/L  |          |            |   |
| * Silicon, Total                    | 4/28/23 06:47 | 5/4/23 10:06  |                     | 1.015 | 3.86                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Total                     | 4/28/23 06:47 | 5/4/23 10:06  |                     | 1.015 | 24.4                                | mg/L  | 0.04060  | 0.406      |   |
| <b>Analytical Method: EPA 200.7</b> |               |               | <b>Analyst: ABB</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Boron, Dissolved                  | 4/27/23 14:09 | 5/4/23 09:37  |                     | 1.015 | Not Detected                        | mg/L  | 0.030000 | 0.1015     | U |
| * Calcium, Dissolved                | 4/27/23 14:09 | 5/4/23 09:37  |                     | 1.015 | 24.3                                | mg/L  | 0.070035 | 0.406      |   |
| * Iron, Dissolved                   | 4/27/23 14:09 | 5/4/23 09:37  |                     | 1.015 | 1.89                                | mg/L  | 0.008120 | 0.0406     |   |
| * Lithium, Dissolved                | 4/27/23 14:09 | 5/4/23 09:37  |                     | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |
| * Magnesium, Dissolved              | 4/27/23 14:09 | 5/4/23 09:37  |                     | 1.015 | 4.71                                | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Dissolved             | 4/27/23 14:09 | 5/4/23 09:37  |                     | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Dissolved (calc.)         | 4/27/23 14:09 | 5/4/23 09:37  |                     | 1     | 8.13                                | mg/L  |          |            |   |
| * Silicon, Dissolved                | 4/27/23 14:09 | 5/4/23 09:37  |                     | 1.015 | 3.80                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Dissolved                 | 4/27/23 14:09 | 5/4/23 09:37  |                     | 1.015 | 24.1                                | mg/L  | 0.04060  | 0.406      |   |
| <b>Analytical Method: EPA 200.8</b> |               |               | <b>Analyst: DLJ</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Antimony, Total                   | 4/28/23 06:47 | 4/28/23 10:56 |                     | 1.015 | Not Detected                        | mg/L  | 0.000710 | 0.001015   | U |
| * Aluminum, Total                   | 4/28/23 06:47 | 4/28/23 10:56 |                     | 1.015 | 0.0356                              | mg/L  | 0.009135 | 0.05075    | J |
| * Arsenic, Total                    | 4/28/23 06:47 | 4/28/23 10:56 |                     | 1.015 | 0.00175                             | mg/L  | 0.000112 | 0.000203   |   |
| * Barium, Total                     | 4/28/23 06:47 | 4/28/23 10:56 |                     | 1.015 | 0.0548                              | mg/L  | 0.000508 | 0.001015   |   |
| * Beryllium, Total                  | 4/28/23 06:47 | 4/28/23 10:56 |                     | 1.015 | Not Detected                        | mg/L  | 0.000406 | 0.001015   | U |
| * Cadmium, Total                    | 4/28/23 06:47 | 4/28/23 10:56 |                     | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |
| * Chromium, Total                   | 4/28/23 06:47 | 4/28/23 10:56 |                     | 1.015 | 0.000721                            | mg/L  | 0.000203 | 0.001015   | J |
| * Cobalt, Total                     | 4/28/23 06:47 | 4/28/23 10:56 |                     | 1.015 | 0.000458                            | mg/L  | 0.000068 | 0.000203   |   |
| * Lead, Total                       | 4/28/23 06:47 | 4/28/23 10:56 |                     | 1.015 | 0.0000863                           | mg/L  | 0.000068 | 0.000203   | J |
| * Manganese, Total                  | 4/28/23 06:47 | 4/28/23 10:56 |                     | 1.015 | 0.304                               | mg/L  | 0.000152 | 0.001015   |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-20V

**Location Code:** WMWBARAP  
**Collected:** 4/24/23 12:58  
**Customer ID:**  
**Submittal Date:** 4/26/23 10:18

**Laboratory ID Number:** BD08112

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/28/23 06:47 | 4/28/23 10:56       |          | 1.015 | 7.67         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/28/23 06:47 | 4/28/23 10:56       |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/28/23 06:47 | 4/28/23 10:56       |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/27/23 14:09 | 4/28/23 14:08       |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/27/23 14:09 | 4/28/23 14:08       |          | 1.015 | Not Detected | mg/L       | 0.009135 | 0.05075  | U |
| * Arsenic, Dissolved                   | 4/27/23 14:09 | 4/28/23 14:08       |          | 1.015 | 0.00143      | mg/L       | 0.000112 | 0.000203 |   |
| * Barium, Dissolved                    | 4/27/23 14:09 | 4/28/23 14:08       |          | 1.015 | 0.0546       | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/27/23 14:09 | 4/28/23 14:08       |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/27/23 14:09 | 4/28/23 14:08       |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/27/23 14:09 | 4/28/23 14:08       |          | 1.015 | 0.000523     | mg/L       | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved                    | 4/27/23 14:09 | 4/28/23 14:08       |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Lead, Dissolved                      | 4/27/23 14:09 | 4/28/23 14:08       |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/27/23 14:09 | 4/28/23 14:08       |          | 1.015 | 0.313        | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/27/23 14:09 | 4/28/23 14:08       |          | 1.015 | 7.65         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/27/23 14:09 | 4/28/23 14:08       |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/27/23 14:09 | 4/28/23 14:08       |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/26/23 14:52 | 4/26/23 20:08       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/28/23 15:44 | 4/28/23 15:44       |          | 1     | Not Detected | mg/L as N  | 0.20     | 0.3      | U |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 5/4/23 11:16  | 5/4/23 12:19        |          | 1     | 112          | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/27/23 13:15 | 5/1/23 10:20        |          | 1     | 161          | mg/L       |          | 25       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 5/4/23 11:16  | 5/4/23 12:19        |          | 1     | 112          | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 5/4/23 11:16  | 5/4/23 12:19        |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 5/1/23 17:11  | 5/1/23 17:11        |          | 1     | 3.38         | mg/L       | 1.00     | 2        |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-20V

**Location Code:** WMWBARAP  
**Collected:** 4/24/23 12:58  
**Customer ID:**  
**Submittal Date:** 4/26/23 10:18

**Laboratory ID Number:** BD08112

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: JCC</b> |          |    |         |       |      |       |    |
| * Chloride                                   | 5/1/23 12:11  | 5/1/23 12:11        |          | 2  | 20.7    | mg/L  | 1.00 | 2     |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: JCC</b> |          |    |         |       |      |       |    |
| * Fluoride                                   | 5/2/23 13:36  | 5/2/23 13:36        |          | 1  | 0.145   | mg/L  | 0.06 | 0.125 |    |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |         |       |      |       |    |
| * Sulfate                                    | 4/28/23 11:57 | 4/28/23 11:57       |          | 1  | 8.99    | mg/L  | 0.6  | 2     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: AWG</b> |          |    |         |       |      |       |    |
| Conductivity                                 | 4/24/23 12:55 | 4/24/23 12:55       |          |    | 283.31  | uS/cm |      |       | FA |
| pH   | 4/24/23 12:55 | 4/24/23 12:55       |          |    | 6.35    | SU    |      |       | FA |
| Temperature                                  | 4/24/23 12:55 | 4/24/23 12:55       |          |    | 20.16   | C     |      |       | FA |
| Turbidity                                    | 4/24/23 12:55 | 4/24/23 12:55       |          |    | 6.16    | NTU   |      |       | FA |
| Sulfide                                      | 4/24/23 12:55 | 4/24/23 12:55       |          |    | 0       | mg/L  |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/24/23 12:58  
**Customer ID:**  
**Delivery Date:** 4/26/23 10:18

**Description:** Barry Ash Pond - MW-20V

**Laboratory ID Number:** BD08112

| Sample  | Analysis             | Units | MB         |          |       |        |        | Standard |                 | Rec  |             | Prec  | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
|         |                      |       | MB         | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec  | Limit       |       |       |
| BD08116 | Aluminum, Dissolved  | mg/L  | 0.00331    | 0.0198   | 0.100 | 0.110  | 0.110  | 0.106    | 0.0850 to 0.115 | 110  | 70.0 to 130 | 0.00  | 20.0  |
| BD08116 | Aluminum, Total      | mg/L  | 0.00295    | 0.0198   | 0.100 | 0.113  | 0.111  | 0.106    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 1.79  | 20.0  |
| BD08116 | Antimony, Dissolved  | mg/L  | 0.000830   | 0.00100  | 0.100 | 0.107  | 0.105  | 0.0894   | 0.0850 to 0.115 | 107  | 70.0 to 130 | 1.89  | 20.0  |
| BD08116 | Antimony, Total      | mg/L  | 0.000650   | 0.00100  | 0.100 | 0.106  | 0.104  | 0.101    | 0.0850 to 0.115 | 106  | 70.0 to 130 | 1.90  | 20.0  |
| BD08116 | Arsenic, Dissolved   | mg/L  | 0.0000122  | 0.000200 | 0.100 | 0.0995 | 0.102  | 0.0994   | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 2.48  | 20.0  |
| BD08116 | Arsenic, Total       | mg/L  | 0.000123   | 0.000200 | 0.100 | 0.0987 | 0.100  | 0.0982   | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 1.31  | 20.0  |
| BD08116 | Barium, Dissolved    | mg/L  | 0.0000272  | 0.00100  | 0.100 | 0.246  | 0.243  | 0.101    | 0.0850 to 0.115 | 104  | 70.0 to 130 | 1.23  | 20.0  |
| BD08116 | Barium, Total        | mg/L  | 0.0000316  | 0.00100  | 0.100 | 0.244  | 0.240  | 0.102    | 0.0850 to 0.115 | 108  | 70.0 to 130 | 1.65  | 20.0  |
| BD08116 | Beryllium, Dissolved | mg/L  | 0.0000195  | 0.000880 | 0.100 | 0.101  | 0.104  | 0.104    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 2.93  | 20.0  |
| BD08116 | Beryllium, Total     | mg/L  | 0.0000178  | 0.000880 | 0.100 | 0.102  | 0.102  | 0.101    | 0.0850 to 0.115 | 102  | 70.0 to 130 | 0.00  | 20.0  |
| BD08116 | Boron, Dissolved     | mg/L  | 0.000249   | 0.0650   | 1.00  | 1.93   | 1.92   | 1.02     | 0.850 to 1.15   | 105  | 70.0 to 130 | 0.519 | 20.0  |
| BD08116 | Boron, Total         | mg/L  | 0.000124   | 0.0650   | 1.00  | 1.92   | 1.93   | 1.03     | 0.850 to 1.15   | 104  | 70.0 to 130 | 0.519 | 20.0  |
| BD08116 | Cadmium, Dissolved   | mg/L  | 0.0000027  | 0.000147 | 0.100 | 0.101  | 0.100  | 0.103    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 0.995 | 20.0  |
| BD08116 | Cadmium, Total       | mg/L  | 0.0000055  | 0.000147 | 0.100 | 0.100  | 0.0974 | 0.0985   | 0.0850 to 0.115 | 100  | 70.0 to 130 | 2.63  | 20.0  |
| BD08116 | Calcium, Dissolved   | mg/L  | -0.00637   | 0.152    | 5.00  | 35.1   | 34.3   | 4.99     | 4.25 to 5.75    | 132  | 70.0 to 130 | 2.31  | 20.0  |
| BD08116 | Calcium, Total       | mg/L  | 0.00590    | 0.152    | 5.00  | 33.7   | 33.8   | 4.91     | 4.25 to 5.75    | 104  | 70.0 to 130 | 0.296 | 20.0  |
| BD08116 | Chloride             | mg/L  | 0.0399     | 1.00     | 10.0  | 24.4   | 24.5   | 10.4     | 9.00 to 11.0    | 92.0 | 80.0 to 120 | 0.409 | 20.0  |
| BD08116 | Chromium, Dissolved  | mg/L  | -0.0000334 | 0.000440 | 0.100 | 0.100  | 0.0991 | 0.0996   | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 0.904 | 20.0  |
| BD08116 | Chromium, Total      | mg/L  | 0.000143   | 0.000440 | 0.100 | 0.101  | 0.0981 | 0.100    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 2.91  | 20.0  |
| BD08116 | Cobalt, Dissolved    | mg/L  | -0.0000223 | 0.000147 | 0.100 | 0.107  | 0.105  | 0.104    | 0.0850 to 0.115 | 106  | 70.0 to 130 | 1.89  | 20.0  |
| BD08116 | Cobalt, Total        | mg/L  | -0.0000221 | 0.000147 | 0.100 | 0.105  | 0.103  | 0.103    | 0.0850 to 0.115 | 104  | 70.0 to 130 | 1.92  | 20.0  |
| BD08116 | Fluoride             | mg/L  | 0.022      | 0.125    | 2.50  | 2.78   | 2.71   | 2.62     | 2.25 to 2.75    | 108  | 80.0 to 120 | 2.55  | 20.0  |
| BD08116 | Iron, Dissolved      | mg/L  | -0.00302   | 0.0176   | 0.2   | 73.2   | 72.3   | 0.192    | 0.170 to 0.230  | 1100 | 70.0 to 130 | 1.24  | 20.0  |
| BD08116 | Iron, Total          | mg/L  | 0.000805   | 0.0176   | 0.2   | 70.5   | 68.1   | 0.198    | 0.170 to 0.230  | 150  | 70.0 to 130 | 3.46  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/24/23 12:58  
**Customer ID:**  
**Delivery Date:** 4/26/23 10:18

**Description:** Barry Ash Pond - MW-20V

**Laboratory ID Number:** BD08112

| Sample  | Analysis               | Units | MB         |          |       |         |         | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB         | Limit    | Spike | MS      | MSD     | Standard | Limit              | Rec  | Limit       |       |       |
| BD08116 | Lead, Dissolved        | mg/L  | 0.0000078  | 0.000147 | 0.100 | 0.104   | 0.105   | 0.102    | 0.0850 to 0.115    | 104  | 70.0 to 130 | 0.957 | 20.0  |
| BD08116 | Lead, Total            | mg/L  | 0.0000063  | 0.000147 | 0.100 | 0.104   | 0.107   | 0.109    | 0.0850 to 0.115    | 104  | 70.0 to 130 | 2.84  | 20.0  |
| BD08116 | Lithium, Dissolved     | mg/L  | 0.000195   | 0.0154   | 0.200 | 0.204   | 0.201   | 0.198    | 0.170 to 0.230     | 102  | 70.0 to 130 | 1.48  | 20.0  |
| BD08116 | Lithium, Total         | mg/L  | 0.000277   | 0.0154   | 0.200 | 0.203   | 0.207   | 0.200    | 0.170 to 0.230     | 102  | 70.0 to 130 | 1.95  | 20.0  |
| BD08116 | Magnesium, Dissolved   | mg/L  | -0.00516   | 0.0462   | 5.00  | 12.0    | 11.9    | 5.06     | 4.25 to 5.75       | 103  | 70.0 to 130 | 0.837 | 20.0  |
| BD08116 | Magnesium, Total       | mg/L  | -0.0114    | 0.0462   | 5.00  | 11.8    | 11.9    | 5.07     | 4.25 to 5.75       | 98.2 | 70.0 to 130 | 0.844 | 20.0  |
| BD08116 | Manganese, Dissolved   | mg/L  | 0.0000314  | 0.00033  | 0.100 | 1.60    | 1.57    | 0.101    | 0.0850 to 0.115    | 90.0 | 70.0 to 130 | 1.89  | 20.0  |
| BD08116 | Manganese, Total       | mg/L  | 0.000110   | 0.00033  | 0.100 | 1.67    | 1.59    | 0.102    | 0.0850 to 0.115    | 190  | 70.0 to 130 | 4.91  | 20.0  |
| BD08116 | Mercury, Total by CVAA | mg/L  | -4.000E-05 | 0.000500 | 0.004 | 0.00395 | 0.00396 | 0.00395  | 0.00340 to 0.00460 | 98.8 | 70.0 to 130 | 0.253 | 20.0  |
| BD08116 | Molybdenum, Dissolved  | mg/L  | 0.00153    | 0.0100   | 0.2   | 0.195   | 0.195   | 0.194    | 0.170 to 0.230     | 97.5 | 70.0 to 130 | 0.00  | 20.0  |
| BD08116 | Molybdenum, Total      | mg/L  | 0.001      | 0.0100   | 0.2   | 0.194   | 0.197   | 0.194    | 0.170 to 0.230     | 97.0 | 70.0 to 130 | 1.53  | 20.0  |
| BD08116 | Potassium, Dissolved   | mg/L  | 0.0132     | 0.367    | 10.0  | 11.6    | 11.5    | 9.92     | 8.50 to 11.5       | 102  | 70.0 to 130 | 0.866 | 20.0  |
| BD08116 | Potassium, Total       | mg/L  | 0.00927    | 0.367    | 10.0  | 11.5    | 11.1    | 10.1     | 8.50 to 11.5       | 101  | 70.0 to 130 | 3.54  | 20.0  |
| BD08116 | Selenium, Dissolved    | mg/L  | 0.000101   | 0.00100  | 0.100 | 0.104   | 0.105   | 0.104    | 0.0850 to 0.115    | 104  | 70.0 to 130 | 0.957 | 20.0  |
| BD08116 | Selenium, Total        | mg/L  | 0.0000944  | 0.00100  | 0.100 | 0.101   | 0.101   | 0.103    | 0.0850 to 0.115    | 101  | 70.0 to 130 | 0.00  | 20.0  |
| BD08116 | Silicon, Dissolved     | mg/L  | -0.000887  | 0.0440   | 1.00  | 14.4    | 14.3    | 1.01     | 0.850 to 1.15      | 100  | 70.0 to 130 | 0.697 | 20.0  |
| BD08116 | Silicon, Total         | mg/L  | -0.000333  | 0.0440   | 1.00  | 14.3    | 14.3    | 1.02     | 0.850 to 1.15      | 90.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD08116 | Sodium, Dissolved      | mg/L  | 0.00269    | 0.0880   | 5.00  | 20.2    | 20.0    | 4.92     | 4.25 to 5.75       | 92.0 | 70.0 to 130 | 0.995 | 20.0  |
| BD08116 | Sodium, Total          | mg/L  | 0.00556    | 0.0880   | 5.00  | 19.9    | 20.2    | 5.00     | 4.25 to 5.75       | 90.0 | 70.0 to 130 | 1.50  | 20.0  |
| BD08116 | Sulfate                | mg/L  | 0.0983     | 2.0      | 75.0  | 103     | 103     | 19.7     | 18.0 to 22.0       | 85.7 | 80.0 to 120 | 0.00  | 20.0  |
| BD08116 | Thallium, Dissolved    | mg/L  | -0.0000230 | 0.000147 | 0.100 | 0.105   | 0.103   | 0.103    | 0.0850 to 0.115    | 105  | 70.0 to 130 | 1.92  | 20.0  |
| BD08116 | Thallium, Total        | mg/L  | -0.0000206 | 0.000147 | 0.100 | 0.104   | 0.106   | 0.107    | 0.0850 to 0.115    | 104  | 70.0 to 130 | 1.90  | 20.0  |
| BD08116 | Total Organic Carbon   | mg/L  | 0.112      | 1.00     | 10.0  | 16.9    | 18.0    | 8.96     |                    | 88.3 | 80.0 to 120 | 6.30  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/24/23 12:58

**Customer ID:**

**Delivery Date:** 4/26/23 10:18

**Description:** Barry Ash Pond - MW-20V

**Laboratory ID Number:** BD08112

| Sample  | Analysis                  | Units      | MB   | MB Limit | Spike | MS   | Sample Duplicate | Standard | Standard Limit | Rec  | Rec Limit   | Prec  | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BD08116 | Alkalinity to pH 4.5      | mg CaCO3/L |      |          |       |      | 164              | 51.2     | 45.0 to 55.0   |      |             | 0.608 | 10.0       |
| BD08116 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.08 | 0.200    | 2.00  | 2.22 | 0.340            | 2.20     | 1.80 to 2.20   | 93.8 | 90.0 to 110 | 1.17  | 15.0       |
| BD08114 | Solids, Dissolved         | mg/L       | 1.00 | 25.0     |       |      | 345              | 51.0     | 40.0 to 60.0   |      |             | 2.01  | 10.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-22H

**Location Code:** WMWBARAP  
**Collected:** 4/24/23 14:05  
**Customer ID:**  
**Submittal Date:** 4/26/23 10:18

**Laboratory ID Number:** BD08113

| Name                                | Prepared      | Analyzed      | Vio Spec            | DF    | Results      | Units                               | MDL      | RL         | Q |
|-------------------------------------|---------------|---------------|---------------------|-------|--------------|-------------------------------------|----------|------------|---|
| <b>Analytical Method: EPA 200.7</b> |               |               | <b>Analyst: ABB</b> |       |              | <b>Preparation Method: EPA 1638</b> |          |            |   |
| * Boron, Total                      | 4/28/23 06:47 | 5/4/23 10:09  |                     | 1.015 | 0.0696       | mg/L                                | 0.030000 | 0.1015     | J |
| * Calcium, Total                    | 4/28/23 06:47 | 5/4/23 10:09  |                     | 1.015 | 14.3         | mg/L                                | 0.070035 | 0.406      |   |
| * Iron, Total                       | 4/28/23 06:47 | 5/4/23 11:37  |                     | 101.5 | 67.7         | mg/L                                | 0.8120   | 4.06       |   |
| * Lithium, Total                    | 4/28/23 06:47 | 5/4/23 10:09  |                     | 1.015 | Not Detected | mg/L                                | 0.007105 | 0.01999956 | U |
| * Magnesium, Total                  | 4/28/23 06:47 | 5/4/23 10:09  |                     | 1.015 | 13.3         | mg/L                                | 0.021315 | 0.406      |   |
| * Molybdenum, Total                 | 4/28/23 06:47 | 5/4/23 10:09  |                     | 1.015 | Not Detected | mg/L                                | 0.005075 | 0.01015    | U |
| * Silica, Total (calc.)             | 4/28/23 06:47 | 5/4/23 10:09  |                     | 1     | 19.4         | mg/L                                |          |            |   |
| * Silicon, Total                    | 4/28/23 06:47 | 5/4/23 10:09  |                     | 1.015 | 9.07         | mg/L                                | 0.02030  | 0.25375    |   |
| * Sodium, Total                     | 4/28/23 06:47 | 5/4/23 11:37  |                     | 101.5 | 73.8         | mg/L                                | 4.060    | 40.6       |   |
| <b>Analytical Method: EPA 200.7</b> |               |               | <b>Analyst: ABB</b> |       |              |                                     |          |            |   |
| * Boron, Dissolved                  | 4/27/23 14:09 | 5/4/23 09:40  |                     | 1.015 | 0.0689       | mg/L                                | 0.030000 | 0.1015     | J |
| * Calcium, Dissolved                | 4/27/23 14:09 | 5/4/23 09:40  |                     | 1.015 | 14.5         | mg/L                                | 0.070035 | 0.406      |   |
| * Iron, Dissolved                   | 4/27/23 14:09 | 5/4/23 11:18  |                     | 101.5 | 63.0         | mg/L                                | 0.8120   | 4.06       |   |
| * Lithium, Dissolved                | 4/27/23 14:09 | 5/4/23 09:40  |                     | 1.015 | Not Detected | mg/L                                | 0.007105 | 0.01999956 | U |
| * Magnesium, Dissolved              | 4/27/23 14:09 | 5/4/23 09:40  |                     | 1.015 | 13.4         | mg/L                                | 0.021315 | 0.406      |   |
| * Molybdenum, Dissolved             | 4/27/23 14:09 | 5/4/23 09:40  |                     | 1.015 | Not Detected | mg/L                                | 0.005075 | 0.01015    | U |
| * Silica, Dissolved (calc.)         | 4/27/23 14:09 | 5/4/23 09:40  |                     | 1     | 19.2         | mg/L                                |          |            |   |
| * Silicon, Dissolved                | 4/27/23 14:09 | 5/4/23 09:40  |                     | 1.015 | 8.98         | mg/L                                | 0.02030  | 0.25375    |   |
| * Sodium, Dissolved                 | 4/27/23 14:09 | 5/4/23 11:18  |                     | 101.5 | 73.9         | mg/L                                | 4.060    | 40.6       |   |
| <b>Analytical Method: EPA 200.8</b> |               |               | <b>Analyst: DLJ</b> |       |              | <b>Preparation Method: EPA 1638</b> |          |            |   |
| * Antimony, Total                   | 4/28/23 06:47 | 4/28/23 10:59 |                     | 1.015 | Not Detected | mg/L                                | 0.000710 | 0.001015   | U |
| * Aluminum, Total                   | 4/28/23 06:47 | 4/28/23 10:59 |                     | 1.015 | 0.0195       | mg/L                                | 0.009135 | 0.05075    | J |
| * Arsenic, Total                    | 4/28/23 06:47 | 4/28/23 10:59 |                     | 1.015 | 0.0191       | mg/L                                | 0.000112 | 0.000203   |   |
| * Barium, Total                     | 4/28/23 06:47 | 4/28/23 10:59 |                     | 1.015 | 0.209        | mg/L                                | 0.000508 | 0.001015   |   |
| * Beryllium, Total                  | 4/28/23 06:47 | 4/28/23 10:59 |                     | 1.015 | Not Detected | mg/L                                | 0.000406 | 0.001015   | U |
| * Cadmium, Total                    | 4/28/23 06:47 | 4/28/23 10:59 |                     | 1.015 | Not Detected | mg/L                                | 0.000068 | 0.000203   | U |
| * Chromium, Total                   | 4/28/23 06:47 | 4/28/23 10:59 |                     | 1.015 | 0.000486     | mg/L                                | 0.000203 | 0.001015   | J |
| * Cobalt, Total                     | 4/28/23 06:47 | 4/28/23 10:59 |                     | 1.015 | 0.00275      | mg/L                                | 0.000068 | 0.000203   |   |
| * Lead, Total                       | 4/28/23 06:47 | 4/28/23 10:59 |                     | 1.015 | Not Detected | mg/L                                | 0.000068 | 0.000203   | U |
| * Manganese, Total                  | 4/28/23 06:47 | 4/28/23 10:59 |                     | 1.015 | 0.544        | mg/L                                | 0.000152 | 0.001015   |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-22H

**Location Code:** WMWBARAP  
**Collected:** 4/24/23 14:05  
**Customer ID:**  
**Submittal Date:** 4/26/23 10:18

**Laboratory ID Number:** BD08113

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/28/23 06:47 | 4/28/23 10:59       |          | 1.015 | 1.98         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/28/23 06:47 | 4/28/23 10:59       |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/28/23 06:47 | 4/28/23 10:59       |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/27/23 14:09 | 4/28/23 14:11       |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/27/23 14:09 | 4/28/23 14:11       |          | 1.015 | Not Detected | mg/L       | 0.009135 | 0.05075  | U |
| * Arsenic, Dissolved                   | 4/27/23 14:09 | 4/28/23 14:11       |          | 1.015 | 0.0198       | mg/L       | 0.000112 | 0.000203 |   |
| * Barium, Dissolved                    | 4/27/23 14:09 | 4/28/23 14:11       |          | 1.015 | 0.214        | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/27/23 14:09 | 4/28/23 14:11       |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/27/23 14:09 | 4/28/23 14:11       |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/27/23 14:09 | 4/28/23 14:11       |          | 1.015 | 0.000462     | mg/L       | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved                    | 4/27/23 14:09 | 4/28/23 14:11       |          | 1.015 | 0.00266      | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/27/23 14:09 | 4/28/23 14:11       |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/27/23 14:09 | 4/28/23 14:11       |          | 1.015 | 0.541        | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/27/23 14:09 | 4/28/23 14:11       |          | 1.015 | 2.04         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/27/23 14:09 | 4/28/23 14:11       |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/27/23 14:09 | 4/28/23 14:11       |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/26/23 14:52 | 4/26/23 20:12       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/28/23 15:46 | 4/28/23 15:46       |          | 1     | 0.312        | mg/L as N  | 0.20     | 0.3      |   |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 5/4/23 11:16  | 5/4/23 12:19        |          | 1     | 189          | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/27/23 13:15 | 5/1/23 10:20        |          | 1     | 355          | mg/L       |          | 25       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 5/4/23 11:16  | 5/4/23 12:19        |          | 1     | 189          | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 5/4/23 11:16  | 5/4/23 12:19        |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 5/1/23 17:28  | 5/1/23 17:28        |          | 1     | 14.4         | mg/L       | 1.00     | 2        |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-22H

**Location Code:** WMWBARAP  
**Collected:** 4/24/23 14:05  
**Customer ID:**  
**Submittal Date:** 4/26/23 10:18

**Laboratory ID Number:** BD08113

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: JCC</b> |          |    |         |       |      |       |    |
| * Chloride                                   | 5/1/23 12:12  | 5/1/23 12:12        |          | 4  | 63.7    | mg/L  | 2.00 | 4     |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: JCC</b> |          |    |         |       |      |       |    |
| * Fluoride                                   | 5/2/23 13:38  | 5/2/23 13:38        |          | 1  | 0.255   | mg/L  | 0.06 | 0.125 |    |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |         |       |      |       |    |
| * Sulfate                                    | 4/28/23 11:58 | 4/28/23 11:58       |          | 4  | 152     | mg/L  | 2.4  | 8     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: AWG</b> |          |    |         |       |      |       |    |
| Conductivity                                 | 4/24/23 14:03 | 4/24/23 14:03       |          |    | 660.41  | uS/cm |      |       | FA |
| pH   | 4/24/23 14:03 | 4/24/23 14:03       |          |    | 6.46    | SU    |      |       | FA |
| Temperature                                  | 4/24/23 14:03 | 4/24/23 14:03       |          |    | 20.02   | C     |      |       | FA |
| Turbidity                                    | 4/24/23 14:03 | 4/24/23 14:03       |          |    | 0.91    | NTU   |      |       | FA |
| Sulfide                                      | 4/24/23 14:03 | 4/24/23 14:03       |          |    | 0       | mg/L  |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/24/23 14:05  
**Customer ID:**  
**Delivery Date:** 4/26/23 10:18

**Description:** Barry Ash Pond - MW-22H

**Laboratory ID Number:** BD08113

| Sample  | Analysis             | Units | MB         |          | Spike | MS     | MSD    | Standard |                 | Rec  |             | Prec  | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
|         |                      |       | MB         | Limit    |       |        |        | Standard | Limit           | Rec  | Limit       |       |       |
| BD08116 | Aluminum, Dissolved  | mg/L  | 0.00331    | 0.0198   | 0.100 | 0.110  | 0.110  | 0.106    | 0.0850 to 0.115 | 110  | 70.0 to 130 | 0.00  | 20.0  |
| BD08116 | Aluminum, Total      | mg/L  | 0.00295    | 0.0198   | 0.100 | 0.113  | 0.111  | 0.106    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 1.79  | 20.0  |
| BD08116 | Antimony, Dissolved  | mg/L  | 0.000830   | 0.00100  | 0.100 | 0.107  | 0.105  | 0.0894   | 0.0850 to 0.115 | 107  | 70.0 to 130 | 1.89  | 20.0  |
| BD08116 | Antimony, Total      | mg/L  | 0.000650   | 0.00100  | 0.100 | 0.106  | 0.104  | 0.101    | 0.0850 to 0.115 | 106  | 70.0 to 130 | 1.90  | 20.0  |
| BD08116 | Arsenic, Dissolved   | mg/L  | 0.0000122  | 0.000200 | 0.100 | 0.0995 | 0.102  | 0.0994   | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 2.48  | 20.0  |
| BD08116 | Arsenic, Total       | mg/L  | 0.000123   | 0.000200 | 0.100 | 0.0987 | 0.100  | 0.0982   | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 1.31  | 20.0  |
| BD08116 | Barium, Dissolved    | mg/L  | 0.0000272  | 0.00100  | 0.100 | 0.246  | 0.243  | 0.101    | 0.0850 to 0.115 | 104  | 70.0 to 130 | 1.23  | 20.0  |
| BD08116 | Barium, Total        | mg/L  | 0.0000316  | 0.00100  | 0.100 | 0.244  | 0.240  | 0.102    | 0.0850 to 0.115 | 108  | 70.0 to 130 | 1.65  | 20.0  |
| BD08116 | Beryllium, Dissolved | mg/L  | 0.0000195  | 0.000880 | 0.100 | 0.101  | 0.104  | 0.104    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 2.93  | 20.0  |
| BD08116 | Beryllium, Total     | mg/L  | 0.0000178  | 0.000880 | 0.100 | 0.102  | 0.102  | 0.101    | 0.0850 to 0.115 | 102  | 70.0 to 130 | 0.00  | 20.0  |
| BD08116 | Boron, Dissolved     | mg/L  | 0.000249   | 0.0650   | 1.00  | 1.93   | 1.92   | 1.02     | 0.850 to 1.15   | 105  | 70.0 to 130 | 0.519 | 20.0  |
| BD08116 | Boron, Total         | mg/L  | 0.000124   | 0.0650   | 1.00  | 1.92   | 1.93   | 1.03     | 0.850 to 1.15   | 104  | 70.0 to 130 | 0.519 | 20.0  |
| BD08116 | Cadmium, Dissolved   | mg/L  | 0.0000027  | 0.000147 | 0.100 | 0.101  | 0.100  | 0.103    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 0.995 | 20.0  |
| BD08116 | Cadmium, Total       | mg/L  | 0.0000055  | 0.000147 | 0.100 | 0.100  | 0.0974 | 0.0985   | 0.0850 to 0.115 | 100  | 70.0 to 130 | 2.63  | 20.0  |
| BD08116 | Calcium, Dissolved   | mg/L  | -0.00637   | 0.152    | 5.00  | 35.1   | 34.3   | 4.99     | 4.25 to 5.75    | 132  | 70.0 to 130 | 2.31  | 20.0  |
| BD08116 | Calcium, Total       | mg/L  | 0.00590    | 0.152    | 5.00  | 33.7   | 33.8   | 4.91     | 4.25 to 5.75    | 104  | 70.0 to 130 | 0.296 | 20.0  |
| BD08116 | Chloride             | mg/L  | 0.0399     | 1.00     | 10.0  | 24.4   | 24.5   | 10.4     | 9.00 to 11.0    | 92.0 | 80.0 to 120 | 0.409 | 20.0  |
| BD08116 | Chromium, Dissolved  | mg/L  | -0.0000334 | 0.000440 | 0.100 | 0.100  | 0.0991 | 0.0996   | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 0.904 | 20.0  |
| BD08116 | Chromium, Total      | mg/L  | 0.000143   | 0.000440 | 0.100 | 0.101  | 0.0981 | 0.100    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 2.91  | 20.0  |
| BD08116 | Cobalt, Dissolved    | mg/L  | -0.0000223 | 0.000147 | 0.100 | 0.107  | 0.105  | 0.104    | 0.0850 to 0.115 | 106  | 70.0 to 130 | 1.89  | 20.0  |
| BD08116 | Cobalt, Total        | mg/L  | -0.0000221 | 0.000147 | 0.100 | 0.105  | 0.103  | 0.103    | 0.0850 to 0.115 | 104  | 70.0 to 130 | 1.92  | 20.0  |
| BD08116 | Fluoride             | mg/L  | 0.022      | 0.125    | 2.50  | 2.78   | 2.71   | 2.62     | 2.25 to 2.75    | 108  | 80.0 to 120 | 2.55  | 20.0  |
| BD08116 | Iron, Dissolved      | mg/L  | -0.00302   | 0.0176   | 0.2   | 73.2   | 72.3   | 0.192    | 0.170 to 0.230  | 1100 | 70.0 to 130 | 1.24  | 20.0  |
| BD08116 | Iron, Total          | mg/L  | 0.000805   | 0.0176   | 0.2   | 70.5   | 68.1   | 0.198    | 0.170 to 0.230  | 150  | 70.0 to 130 | 3.46  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/24/23 14:05  
**Customer ID:**  
**Delivery Date:** 4/26/23 10:18

**Description:** Barry Ash Pond - MW-22H

**Laboratory ID Number:** BD08113

| Sample  | Analysis               | Units | MB         |          |       |         |         | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB         | Limit    | Spike | MS      | MSD     | Standard | Limit              | Rec  | Limit       |       |       |
| BD08116 | Lead, Dissolved        | mg/L  | 0.0000078  | 0.000147 | 0.100 | 0.104   | 0.105   | 0.102    | 0.0850 to 0.115    | 104  | 70.0 to 130 | 0.957 | 20.0  |
| BD08116 | Lead, Total            | mg/L  | 0.0000063  | 0.000147 | 0.100 | 0.104   | 0.107   | 0.109    | 0.0850 to 0.115    | 104  | 70.0 to 130 | 2.84  | 20.0  |
| BD08116 | Lithium, Dissolved     | mg/L  | 0.000195   | 0.0154   | 0.200 | 0.204   | 0.201   | 0.198    | 0.170 to 0.230     | 102  | 70.0 to 130 | 1.48  | 20.0  |
| BD08116 | Lithium, Total         | mg/L  | 0.000277   | 0.0154   | 0.200 | 0.203   | 0.207   | 0.200    | 0.170 to 0.230     | 102  | 70.0 to 130 | 1.95  | 20.0  |
| BD08116 | Magnesium, Dissolved   | mg/L  | -0.00516   | 0.0462   | 5.00  | 12.0    | 11.9    | 5.06     | 4.25 to 5.75       | 103  | 70.0 to 130 | 0.837 | 20.0  |
| BD08116 | Magnesium, Total       | mg/L  | -0.0114    | 0.0462   | 5.00  | 11.8    | 11.9    | 5.07     | 4.25 to 5.75       | 98.2 | 70.0 to 130 | 0.844 | 20.0  |
| BD08116 | Manganese, Dissolved   | mg/L  | 0.0000314  | 0.00033  | 0.100 | 1.60    | 1.57    | 0.101    | 0.0850 to 0.115    | 90.0 | 70.0 to 130 | 1.89  | 20.0  |
| BD08116 | Manganese, Total       | mg/L  | 0.000110   | 0.00033  | 0.100 | 1.67    | 1.59    | 0.102    | 0.0850 to 0.115    | 190  | 70.0 to 130 | 4.91  | 20.0  |
| BD08116 | Mercury, Total by CVAA | mg/L  | -4.000E-05 | 0.000500 | 0.004 | 0.00395 | 0.00396 | 0.00395  | 0.00340 to 0.00460 | 98.8 | 70.0 to 130 | 0.253 | 20.0  |
| BD08116 | Molybdenum, Dissolved  | mg/L  | 0.00153    | 0.0100   | 0.2   | 0.195   | 0.195   | 0.194    | 0.170 to 0.230     | 97.5 | 70.0 to 130 | 0.00  | 20.0  |
| BD08116 | Molybdenum, Total      | mg/L  | 0.001      | 0.0100   | 0.2   | 0.194   | 0.197   | 0.194    | 0.170 to 0.230     | 97.0 | 70.0 to 130 | 1.53  | 20.0  |
| BD08116 | Potassium, Dissolved   | mg/L  | 0.0132     | 0.367    | 10.0  | 11.6    | 11.5    | 9.92     | 8.50 to 11.5       | 102  | 70.0 to 130 | 0.866 | 20.0  |
| BD08116 | Potassium, Total       | mg/L  | 0.00927    | 0.367    | 10.0  | 11.5    | 11.1    | 10.1     | 8.50 to 11.5       | 101  | 70.0 to 130 | 3.54  | 20.0  |
| BD08116 | Selenium, Dissolved    | mg/L  | 0.000101   | 0.00100  | 0.100 | 0.104   | 0.105   | 0.104    | 0.0850 to 0.115    | 104  | 70.0 to 130 | 0.957 | 20.0  |
| BD08116 | Selenium, Total        | mg/L  | 0.0000944  | 0.00100  | 0.100 | 0.101   | 0.101   | 0.103    | 0.0850 to 0.115    | 101  | 70.0 to 130 | 0.00  | 20.0  |
| BD08116 | Silicon, Dissolved     | mg/L  | -0.000887  | 0.0440   | 1.00  | 14.4    | 14.3    | 1.01     | 0.850 to 1.15      | 100  | 70.0 to 130 | 0.697 | 20.0  |
| BD08116 | Silicon, Total         | mg/L  | -0.000333  | 0.0440   | 1.00  | 14.3    | 14.3    | 1.02     | 0.850 to 1.15      | 90.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD08116 | Sodium, Dissolved      | mg/L  | 0.00269    | 0.0880   | 5.00  | 20.2    | 20.0    | 4.92     | 4.25 to 5.75       | 92.0 | 70.0 to 130 | 0.995 | 20.0  |
| BD08116 | Sodium, Total          | mg/L  | 0.00556    | 0.0880   | 5.00  | 19.9    | 20.2    | 5.00     | 4.25 to 5.75       | 90.0 | 70.0 to 130 | 1.50  | 20.0  |
| BD08116 | Sulfate                | mg/L  | 0.0983     | 2.0      | 75.0  | 103     | 103     | 19.7     | 18.0 to 22.0       | 85.7 | 80.0 to 120 | 0.00  | 20.0  |
| BD08116 | Thallium, Dissolved    | mg/L  | -0.0000230 | 0.000147 | 0.100 | 0.105   | 0.103   | 0.103    | 0.0850 to 0.115    | 105  | 70.0 to 130 | 1.92  | 20.0  |
| BD08116 | Thallium, Total        | mg/L  | -0.0000206 | 0.000147 | 0.100 | 0.104   | 0.106   | 0.107    | 0.0850 to 0.115    | 104  | 70.0 to 130 | 1.90  | 20.0  |
| BD08116 | Total Organic Carbon   | mg/L  | 0.112      | 1.00     | 10.0  | 16.9    | 18.0    | 8.96     |                    | 88.3 | 80.0 to 120 | 6.30  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/24/23 14:05

**Customer ID:**

**Delivery Date:** 4/26/23 10:18

**Description:** Barry Ash Pond - MW-22H

**Laboratory ID Number:** BD08113

| Sample  | Analysis                  | Units      | MB   | MB Limit | Spike | MS   | Sample Duplicate | Standard Standard | Standard Limit | Rec  | Rec Limit   | Prec  | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|-------------------|----------------|------|-------------|-------|------------|
| BD08116 | Alkalinity to pH 4.5      | mg CaCO3/L |      |          |       |      | 164              | 51.2              | 45.0 to 55.0   |      |             | 0.608 | 10.0       |
| BD08116 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.08 | 0.200    | 2.00  | 2.22 | 0.340            | 2.20              | 1.80 to 2.20   | 93.8 | 90.0 to 110 | 1.17  | 15.0       |
| BD08114 | Solids, Dissolved         | mg/L       | 1.00 | 25.0     |       |      | 345              | 51.0              | 40.0 to 60.0   |      |             | 2.01  | 10.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-15V

**Location Code:** WMWBARAP  
**Collected:** 4/24/23 15:00  
**Customer ID:**  
**Submittal Date:** 4/26/23 10:18

**Laboratory ID Number:** BD08114

| Name                                | Prepared      | Analyzed      | Vio Spec            | DF    | Results      | Units                               | MDL      | RL         | Q |
|-------------------------------------|---------------|---------------|---------------------|-------|--------------|-------------------------------------|----------|------------|---|
| <b>Analytical Method: EPA 200.7</b> |               |               | <b>Analyst: ABB</b> |       |              | <b>Preparation Method: EPA 1638</b> |          |            |   |
| * Boron, Total                      | 4/28/23 06:47 | 5/4/23 10:12  |                     | 1.015 | 0.0423       | mg/L                                | 0.030000 | 0.1015     | J |
| * Calcium, Total                    | 4/28/23 06:47 | 5/4/23 10:12  |                     | 1.015 | 9.13         | mg/L                                | 0.070035 | 0.406      |   |
| * Iron, Total                       | 4/28/23 06:47 | 5/4/23 11:40  |                     | 101.5 | 43.1         | mg/L                                | 0.8120   | 4.06       |   |
| * Lithium, Total                    | 4/28/23 06:47 | 5/4/23 10:12  |                     | 1.015 | Not Detected | mg/L                                | 0.007105 | 0.01999956 | U |
| * Magnesium, Total                  | 4/28/23 06:47 | 5/4/23 10:12  |                     | 1.015 | 6.12         | mg/L                                | 0.021315 | 0.406      |   |
| * Molybdenum, Total                 | 4/28/23 06:47 | 5/4/23 10:12  |                     | 1.015 | Not Detected | mg/L                                | 0.005075 | 0.01015    | U |
| * Silica, Total (calc.)             | 4/28/23 06:47 | 5/4/23 10:12  |                     | 1     | 17.1         | mg/L                                |          |            |   |
| * Silicon, Total                    | 4/28/23 06:47 | 5/4/23 10:12  |                     | 1.015 | 8.01         | mg/L                                | 0.02030  | 0.25375    |   |
| * Sodium, Total                     | 4/28/23 06:47 | 5/4/23 11:40  |                     | 101.5 | 76.1         | mg/L                                | 4.060    | 40.6       |   |
| <b>Analytical Method: EPA 200.7</b> |               |               | <b>Analyst: ABB</b> |       |              |                                     |          |            |   |
| * Boron, Dissolved                  | 4/27/23 14:09 | 5/4/23 09:44  |                     | 1.015 | 0.0368       | mg/L                                | 0.030000 | 0.1015     | J |
| * Calcium, Dissolved                | 4/27/23 14:09 | 5/4/23 09:44  |                     | 1.015 | 9.09         | mg/L                                | 0.070035 | 0.406      |   |
| * Iron, Dissolved                   | 4/27/23 14:09 | 5/4/23 11:22  |                     | 101.5 | 41.5         | mg/L                                | 0.8120   | 4.06       |   |
| * Lithium, Dissolved                | 4/27/23 14:09 | 5/4/23 09:44  |                     | 1.015 | Not Detected | mg/L                                | 0.007105 | 0.01999956 | U |
| * Magnesium, Dissolved              | 4/27/23 14:09 | 5/4/23 09:44  |                     | 1.015 | 5.95         | mg/L                                | 0.021315 | 0.406      |   |
| * Molybdenum, Dissolved             | 4/27/23 14:09 | 5/4/23 09:44  |                     | 1.015 | Not Detected | mg/L                                | 0.005075 | 0.01015    | U |
| * Silica, Dissolved (calc.)         | 4/27/23 14:09 | 5/4/23 09:44  |                     | 1     | 17.1         | mg/L                                |          |            |   |
| * Silicon, Dissolved                | 4/27/23 14:09 | 5/4/23 09:44  |                     | 1.015 | 7.97         | mg/L                                | 0.02030  | 0.25375    |   |
| * Sodium, Dissolved                 | 4/27/23 14:09 | 5/4/23 11:22  |                     | 101.5 | 76.1         | mg/L                                | 4.060    | 40.6       |   |
| <b>Analytical Method: EPA 200.8</b> |               |               | <b>Analyst: DLJ</b> |       |              | <b>Preparation Method: EPA 1638</b> |          |            |   |
| * Antimony, Total                   | 4/28/23 06:47 | 4/28/23 11:03 |                     | 1.015 | Not Detected | mg/L                                | 0.000710 | 0.001015   | U |
| * Aluminum, Total                   | 4/28/23 06:47 | 4/28/23 11:03 |                     | 1.015 | 0.00946      | mg/L                                | 0.009135 | 0.05075    | J |
| * Arsenic, Total                    | 4/28/23 06:47 | 4/28/23 11:03 |                     | 1.015 | 0.0224       | mg/L                                | 0.000112 | 0.000203   |   |
| * Barium, Total                     | 4/28/23 06:47 | 4/28/23 11:03 |                     | 1.015 | 0.164        | mg/L                                | 0.000508 | 0.001015   |   |
| * Beryllium, Total                  | 4/28/23 06:47 | 4/28/23 11:03 |                     | 1.015 | Not Detected | mg/L                                | 0.000406 | 0.001015   | U |
| * Cadmium, Total                    | 4/28/23 06:47 | 4/28/23 11:03 |                     | 1.015 | 0.000212     | mg/L                                | 0.000068 | 0.000203   |   |
| * Chromium, Total                   | 4/28/23 06:47 | 4/28/23 11:03 |                     | 1.015 | 0.000278     | mg/L                                | 0.000203 | 0.001015   | J |
| * Cobalt, Total                     | 4/28/23 06:47 | 4/28/23 11:03 |                     | 1.015 | 0.0817       | mg/L                                | 0.000068 | 0.000203   |   |
| * Lead, Total                       | 4/28/23 06:47 | 4/28/23 11:03 |                     | 1.015 | Not Detected | mg/L                                | 0.000068 | 0.000203   | U |
| * Manganese, Total                  | 4/28/23 06:47 | 4/28/23 11:03 |                     | 1.015 | 1.16         | mg/L                                | 0.000152 | 0.001015   |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-15V

**Location Code:** WMWBARAP  
**Collected:** 4/24/23 15:00  
**Customer ID:**  
**Submittal Date:** 4/26/23 10:18

**Laboratory ID Number:** BD08114

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/28/23 06:47 | 4/28/23 11:03       |          | 1.015 | 3.16         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/28/23 06:47 | 4/28/23 11:03       |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/28/23 06:47 | 4/28/23 11:03       |          | 1.015 | 0.000107     | mg/L       | 0.000068 | 0.000203 | J |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/27/23 14:09 | 4/28/23 14:15       |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/27/23 14:09 | 4/28/23 14:15       |          | 1.015 | Not Detected | mg/L       | 0.009135 | 0.05075  | U |
| * Arsenic, Dissolved                   | 4/27/23 14:09 | 4/28/23 14:15       |          | 1.015 | 0.0220       | mg/L       | 0.000112 | 0.000203 |   |
| * Barium, Dissolved                    | 4/27/23 14:09 | 4/28/23 14:15       |          | 1.015 | 0.168        | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/27/23 14:09 | 4/28/23 14:15       |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/27/23 14:09 | 4/28/23 14:15       |          | 1.015 | 0.000203     | mg/L       | 0.000068 | 0.000203 |   |
| * Chromium, Dissolved                  | 4/27/23 14:09 | 4/28/23 14:15       |          | 1.015 | Not Detected | mg/L       | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved                    | 4/27/23 14:09 | 4/28/23 14:15       |          | 1.015 | 0.0839       | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/27/23 14:09 | 4/28/23 14:15       |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/27/23 14:09 | 4/28/23 14:15       |          | 1.015 | 1.15         | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/27/23 14:09 | 4/28/23 14:15       |          | 1.015 | 3.25         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/27/23 14:09 | 4/28/23 14:15       |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/27/23 14:09 | 4/28/23 14:15       |          | 1.015 | 0.000111     | mg/L       | 0.000068 | 0.000203 | J |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/26/23 14:52 | 4/26/23 20:16       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/28/23 15:48 | 4/28/23 15:48       |          | 1     | 0.253        | mg/L as N  | 0.20     | 0.3      | J |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 5/4/23 11:16  | 5/4/23 12:19        |          | 1     | 30.9         | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/27/23 13:15 | 5/1/23 10:20        |          | 1     | 352          | mg/L       |          | 25       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 5/4/23 11:16  | 5/4/23 12:19        |          | 1     | 30.9         | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 5/4/23 11:16  | 5/4/23 12:19        |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 5/1/23 17:43  | 5/1/23 17:43        |          | 1     | Not Detected | mg/L       | 1.00     | 2        | U |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-15V

**Location Code:** WMWBARAP

**Collected:** 4/24/23 15:00

**Customer ID:**

**Submittal Date:** 4/26/23 10:18

**Laboratory ID Number:** BD08114

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results      | Units | MDL   | RL    | Q  |
|--|---------------|---------------------|----------|----|--------------|-------|-------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: JCC</b> |          |    |              |       |       |       |    |
| * Chloride                                   | 5/1/23 12:27  | 5/1/23 12:27        |          | 20 | 192          | mg/L  | 10.00 | 20    |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: JCC</b> |          |    |              |       |       |       |    |
| * Fluoride                                   | 5/2/23 13:39  | 5/2/23 13:39        |          | 1  | Not Detected | mg/L  | 0.06  | 0.125 | U  |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |              |       |       |       |    |
| * Sulfate                                    | 4/28/23 11:59 | 4/28/23 11:59       |          | 1  | 1.93         | mg/L  | 0.6   | 2     | J  |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: AWG</b> |          |    |              |       |       |       |    |
| Conductivity                                 | 4/24/23 14:59 | 4/24/23 14:59       |          |    | 675.79       | uS/cm |       |       | FA |
| pH   | 4/24/23 14:59 | 4/24/23 14:59       |          |    | 5.61         | SU    |       |       | FA |
| Temperature                                  | 4/24/23 14:59 | 4/24/23 14:59       |          |    | 20.74        | C     |       |       | FA |
| Turbidity                                    | 4/24/23 14:59 | 4/24/23 14:59       |          |    | 4.37         | NTU   |       |       | FA |
| Sulfide                                      | 4/24/23 14:59 | 4/24/23 14:59       |          |    | 0            | mg/L  |       |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/24/23 15:00  
**Customer ID:**  
**Delivery Date:** 4/26/23 10:18

**Description:** Barry Ash Pond - MW-15V

**Laboratory ID Number:** BD08114

| Sample  | Analysis             | Units | MB         |          |       |        |        | Standard |                 | Rec  |             | Prec  | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
|         |                      |       | MB         | Limit    | Spike | MS     | MSD    | Standard | Limit           | Rec  | Limit       |       |       |
| BD08116 | Aluminum, Dissolved  | mg/L  | 0.00331    | 0.0198   | 0.100 | 0.110  | 0.110  | 0.106    | 0.0850 to 0.115 | 110  | 70.0 to 130 | 0.00  | 20.0  |
| BD08116 | Aluminum, Total      | mg/L  | 0.00295    | 0.0198   | 0.100 | 0.113  | 0.111  | 0.106    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 1.79  | 20.0  |
| BD08116 | Antimony, Dissolved  | mg/L  | 0.000830   | 0.00100  | 0.100 | 0.107  | 0.105  | 0.0894   | 0.0850 to 0.115 | 107  | 70.0 to 130 | 1.89  | 20.0  |
| BD08116 | Antimony, Total      | mg/L  | 0.000650   | 0.00100  | 0.100 | 0.106  | 0.104  | 0.101    | 0.0850 to 0.115 | 106  | 70.0 to 130 | 1.90  | 20.0  |
| BD08116 | Arsenic, Dissolved   | mg/L  | 0.0000122  | 0.000200 | 0.100 | 0.0995 | 0.102  | 0.0994   | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 2.48  | 20.0  |
| BD08116 | Arsenic, Total       | mg/L  | 0.000123   | 0.000200 | 0.100 | 0.0987 | 0.100  | 0.0982   | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 1.31  | 20.0  |
| BD08116 | Barium, Dissolved    | mg/L  | 0.0000272  | 0.00100  | 0.100 | 0.246  | 0.243  | 0.101    | 0.0850 to 0.115 | 104  | 70.0 to 130 | 1.23  | 20.0  |
| BD08116 | Barium, Total        | mg/L  | 0.0000316  | 0.00100  | 0.100 | 0.244  | 0.240  | 0.102    | 0.0850 to 0.115 | 108  | 70.0 to 130 | 1.65  | 20.0  |
| BD08116 | Beryllium, Dissolved | mg/L  | 0.0000195  | 0.000880 | 0.100 | 0.101  | 0.104  | 0.104    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 2.93  | 20.0  |
| BD08116 | Beryllium, Total     | mg/L  | 0.0000178  | 0.000880 | 0.100 | 0.102  | 0.102  | 0.101    | 0.0850 to 0.115 | 102  | 70.0 to 130 | 0.00  | 20.0  |
| BD08116 | Boron, Dissolved     | mg/L  | 0.000249   | 0.0650   | 1.00  | 1.93   | 1.92   | 1.02     | 0.850 to 1.15   | 105  | 70.0 to 130 | 0.519 | 20.0  |
| BD08116 | Boron, Total         | mg/L  | 0.000124   | 0.0650   | 1.00  | 1.92   | 1.93   | 1.03     | 0.850 to 1.15   | 104  | 70.0 to 130 | 0.519 | 20.0  |
| BD08116 | Cadmium, Dissolved   | mg/L  | 0.0000027  | 0.000147 | 0.100 | 0.101  | 0.100  | 0.103    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 0.995 | 20.0  |
| BD08116 | Cadmium, Total       | mg/L  | 0.0000055  | 0.000147 | 0.100 | 0.100  | 0.0974 | 0.0985   | 0.0850 to 0.115 | 100  | 70.0 to 130 | 2.63  | 20.0  |
| BD08116 | Calcium, Dissolved   | mg/L  | -0.00637   | 0.152    | 5.00  | 35.1   | 34.3   | 4.99     | 4.25 to 5.75    | 132  | 70.0 to 130 | 2.31  | 20.0  |
| BD08116 | Calcium, Total       | mg/L  | 0.00590    | 0.152    | 5.00  | 33.7   | 33.8   | 4.91     | 4.25 to 5.75    | 104  | 70.0 to 130 | 0.296 | 20.0  |
| BD08116 | Chloride             | mg/L  | 0.0399     | 1.00     | 10.0  | 24.4   | 24.5   | 10.4     | 9.00 to 11.0    | 92.0 | 80.0 to 120 | 0.409 | 20.0  |
| BD08116 | Chromium, Dissolved  | mg/L  | -0.0000334 | 0.000440 | 0.100 | 0.100  | 0.0991 | 0.0996   | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 0.904 | 20.0  |
| BD08116 | Chromium, Total      | mg/L  | 0.000143   | 0.000440 | 0.100 | 0.101  | 0.0981 | 0.100    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 2.91  | 20.0  |
| BD08116 | Cobalt, Dissolved    | mg/L  | -0.0000223 | 0.000147 | 0.100 | 0.107  | 0.105  | 0.104    | 0.0850 to 0.115 | 106  | 70.0 to 130 | 1.89  | 20.0  |
| BD08116 | Cobalt, Total        | mg/L  | -0.0000221 | 0.000147 | 0.100 | 0.105  | 0.103  | 0.103    | 0.0850 to 0.115 | 104  | 70.0 to 130 | 1.92  | 20.0  |
| BD08116 | Fluoride             | mg/L  | 0.022      | 0.125    | 2.50  | 2.78   | 2.71   | 2.62     | 2.25 to 2.75    | 108  | 80.0 to 120 | 2.55  | 20.0  |
| BD08116 | Iron, Dissolved      | mg/L  | -0.00302   | 0.0176   | 0.2   | 73.2   | 72.3   | 0.192    | 0.170 to 0.230  | 1100 | 70.0 to 130 | 1.24  | 20.0  |
| BD08116 | Iron, Total          | mg/L  | 0.000805   | 0.0176   | 0.2   | 70.5   | 68.1   | 0.198    | 0.170 to 0.230  | 150  | 70.0 to 130 | 3.46  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/24/23 15:00  
**Customer ID:**  
**Delivery Date:** 4/26/23 10:18

**Description:** Barry Ash Pond - MW-15V

**Laboratory ID Number:** BD08114

| Sample  | Analysis               | Units | MB         |          |       |         |         | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB         | Limit    | Spike | MS      | MSD     | Standard | Limit              | Rec  | Limit       |       |       |
| BD08116 | Lead, Dissolved        | mg/L  | 0.0000078  | 0.000147 | 0.100 | 0.104   | 0.105   | 0.102    | 0.0850 to 0.115    | 104  | 70.0 to 130 | 0.957 | 20.0  |
| BD08116 | Lead, Total            | mg/L  | 0.0000063  | 0.000147 | 0.100 | 0.104   | 0.107   | 0.109    | 0.0850 to 0.115    | 104  | 70.0 to 130 | 2.84  | 20.0  |
| BD08116 | Lithium, Dissolved     | mg/L  | 0.000195   | 0.0154   | 0.200 | 0.204   | 0.201   | 0.198    | 0.170 to 0.230     | 102  | 70.0 to 130 | 1.48  | 20.0  |
| BD08116 | Lithium, Total         | mg/L  | 0.000277   | 0.0154   | 0.200 | 0.203   | 0.207   | 0.200    | 0.170 to 0.230     | 102  | 70.0 to 130 | 1.95  | 20.0  |
| BD08116 | Magnesium, Dissolved   | mg/L  | -0.00516   | 0.0462   | 5.00  | 12.0    | 11.9    | 5.06     | 4.25 to 5.75       | 103  | 70.0 to 130 | 0.837 | 20.0  |
| BD08116 | Magnesium, Total       | mg/L  | -0.0114    | 0.0462   | 5.00  | 11.8    | 11.9    | 5.07     | 4.25 to 5.75       | 98.2 | 70.0 to 130 | 0.844 | 20.0  |
| BD08116 | Manganese, Dissolved   | mg/L  | 0.0000314  | 0.00033  | 0.100 | 1.60    | 1.57    | 0.101    | 0.0850 to 0.115    | 90.0 | 70.0 to 130 | 1.89  | 20.0  |
| BD08116 | Manganese, Total       | mg/L  | 0.000110   | 0.00033  | 0.100 | 1.67    | 1.59    | 0.102    | 0.0850 to 0.115    | 190  | 70.0 to 130 | 4.91  | 20.0  |
| BD08116 | Mercury, Total by CVAA | mg/L  | -4.000E-05 | 0.000500 | 0.004 | 0.00395 | 0.00396 | 0.00395  | 0.00340 to 0.00460 | 98.8 | 70.0 to 130 | 0.253 | 20.0  |
| BD08116 | Molybdenum, Dissolved  | mg/L  | 0.00153    | 0.0100   | 0.2   | 0.195   | 0.195   | 0.194    | 0.170 to 0.230     | 97.5 | 70.0 to 130 | 0.00  | 20.0  |
| BD08116 | Molybdenum, Total      | mg/L  | 0.001      | 0.0100   | 0.2   | 0.194   | 0.197   | 0.194    | 0.170 to 0.230     | 97.0 | 70.0 to 130 | 1.53  | 20.0  |
| BD08116 | Potassium, Dissolved   | mg/L  | 0.0132     | 0.367    | 10.0  | 11.6    | 11.5    | 9.92     | 8.50 to 11.5       | 102  | 70.0 to 130 | 0.866 | 20.0  |
| BD08116 | Potassium, Total       | mg/L  | 0.00927    | 0.367    | 10.0  | 11.5    | 11.1    | 10.1     | 8.50 to 11.5       | 101  | 70.0 to 130 | 3.54  | 20.0  |
| BD08116 | Selenium, Dissolved    | mg/L  | 0.000101   | 0.00100  | 0.100 | 0.104   | 0.105   | 0.104    | 0.0850 to 0.115    | 104  | 70.0 to 130 | 0.957 | 20.0  |
| BD08116 | Selenium, Total        | mg/L  | 0.0000944  | 0.00100  | 0.100 | 0.101   | 0.101   | 0.103    | 0.0850 to 0.115    | 101  | 70.0 to 130 | 0.00  | 20.0  |
| BD08116 | Silicon, Dissolved     | mg/L  | -0.000887  | 0.0440   | 1.00  | 14.4    | 14.3    | 1.01     | 0.850 to 1.15      | 100  | 70.0 to 130 | 0.697 | 20.0  |
| BD08116 | Silicon, Total         | mg/L  | -0.000333  | 0.0440   | 1.00  | 14.3    | 14.3    | 1.02     | 0.850 to 1.15      | 90.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD08116 | Sodium, Dissolved      | mg/L  | 0.00269    | 0.0880   | 5.00  | 20.2    | 20.0    | 4.92     | 4.25 to 5.75       | 92.0 | 70.0 to 130 | 0.995 | 20.0  |
| BD08116 | Sodium, Total          | mg/L  | 0.00556    | 0.0880   | 5.00  | 19.9    | 20.2    | 5.00     | 4.25 to 5.75       | 90.0 | 70.0 to 130 | 1.50  | 20.0  |
| BD08116 | Sulfate                | mg/L  | 0.0983     | 2.0      | 75.0  | 103     | 103     | 19.7     | 18.0 to 22.0       | 85.7 | 80.0 to 120 | 0.00  | 20.0  |
| BD08116 | Thallium, Dissolved    | mg/L  | -0.0000230 | 0.000147 | 0.100 | 0.105   | 0.103   | 0.103    | 0.0850 to 0.115    | 105  | 70.0 to 130 | 1.92  | 20.0  |
| BD08116 | Thallium, Total        | mg/L  | -0.0000206 | 0.000147 | 0.100 | 0.104   | 0.106   | 0.107    | 0.0850 to 0.115    | 104  | 70.0 to 130 | 1.90  | 20.0  |
| BD08116 | Total Organic Carbon   | mg/L  | 0.112      | 1.00     | 10.0  | 16.9    | 18.0    | 8.96     |                    | 88.3 | 80.0 to 120 | 6.30  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/24/23 15:00

**Customer ID:**

**Delivery Date:** 4/26/23 10:18

**Description:** Barry Ash Pond - MW-15V

**Laboratory ID Number:** BD08114

| Sample  | Analysis                  | Units      | MB   | MB Limit | Spike | MS   | Sample Duplicate | Standard | Standard Limit | Rec  | Rec Limit   | Prec  | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BD08116 | Alkalinity to pH 4.5      | mg CaCO3/L |      |          |       |      | 164              | 51.2     | 45.0 to 55.0   |      |             | 0.608 | 10.0       |
| BD08116 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.08 | 0.200    | 2.00  | 2.22 | 0.340            | 2.20     | 1.80 to 2.20   | 93.8 | 90.0 to 110 | 1.17  | 15.0       |
| BD08114 | Solids, Dissolved         | mg/L       | 1.00 | 25.0     |       |      | 345              | 51.0     | 40.0 to 60.0   |      |             | 2.01  | 10.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-20H

**Location Code:** WMWBARAP  
**Collected:** 4/24/23 16:06  
**Customer ID:**  
**Submittal Date:** 4/26/23 10:18

**Laboratory ID Number:** BD08115

| Name                                | Prepared      | Analyzed      | Vio Spec            | DF    | Results                             | Units | MDL      | RL         | Q |
|-------------------------------------|---------------|---------------|---------------------|-------|-------------------------------------|-------|----------|------------|---|
| <b>Analytical Method: EPA 200.7</b> |               |               | <b>Analyst: ABB</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Boron, Total                      | 4/28/23 06:47 | 5/4/23 10:15  |                     | 1.015 | 0.0573                              | mg/L  | 0.030000 | 0.1015     | J |
| * Calcium, Total                    | 4/28/23 06:47 | 5/4/23 10:15  |                     | 1.015 | 28.1                                | mg/L  | 0.070035 | 0.406      |   |
| * Iron, Total                       | 4/28/23 06:47 | 5/4/23 11:44  |                     | 101.5 | 54.5                                | mg/L  | 0.8120   | 4.06       |   |
| * Lithium, Total                    | 4/28/23 06:47 | 5/4/23 10:15  |                     | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |
| * Magnesium, Total                  | 4/28/23 06:47 | 5/4/23 10:15  |                     | 1.015 | 17.7                                | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Total                 | 4/28/23 06:47 | 5/4/23 10:15  |                     | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Total (calc.)             | 4/28/23 06:47 | 5/4/23 10:15  |                     | 1     | 16.9                                | mg/L  |          |            |   |
| * Silicon, Total                    | 4/28/23 06:47 | 5/4/23 10:15  |                     | 1.015 | 7.90                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Total                     | 4/28/23 06:47 | 5/4/23 11:44  |                     | 101.5 | 91.0                                | mg/L  | 4.060    | 40.6       |   |
| <b>Analytical Method: EPA 200.7</b> |               |               | <b>Analyst: ABB</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Boron, Dissolved                  | 4/27/23 14:09 | 5/4/23 09:47  |                     | 1.015 | 0.0698                              | mg/L  | 0.030000 | 0.1015     | J |
| * Calcium, Dissolved                | 4/27/23 14:09 | 5/4/23 09:47  |                     | 1.015 | 28.3                                | mg/L  | 0.070035 | 0.406      |   |
| * Iron, Dissolved                   | 4/27/23 14:09 | 5/4/23 11:25  |                     | 101.5 | 52.7                                | mg/L  | 0.8120   | 4.06       |   |
| * Lithium, Dissolved                | 4/27/23 14:09 | 5/4/23 09:47  |                     | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U |
| * Magnesium, Dissolved              | 4/27/23 14:09 | 5/4/23 09:47  |                     | 1.015 | 17.5                                | mg/L  | 0.021315 | 0.406      |   |
| * Molybdenum, Dissolved             | 4/27/23 14:09 | 5/4/23 09:47  |                     | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U |
| * Silica, Dissolved (calc.)         | 4/27/23 14:09 | 5/4/23 09:47  |                     | 1     | 16.9                                | mg/L  |          |            |   |
| * Silicon, Dissolved                | 4/27/23 14:09 | 5/4/23 09:47  |                     | 1.015 | 7.88                                | mg/L  | 0.02030  | 0.25375    |   |
| * Sodium, Dissolved                 | 4/27/23 14:09 | 5/4/23 11:25  |                     | 101.5 | 91.6                                | mg/L  | 4.060    | 40.6       |   |
| <b>Analytical Method: EPA 200.8</b> |               |               | <b>Analyst: DLJ</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |   |
| * Antimony, Total                   | 4/28/23 06:47 | 4/28/23 11:06 |                     | 1.015 | Not Detected                        | mg/L  | 0.000710 | 0.001015   | U |
| * Aluminum, Total                   | 4/28/23 06:47 | 4/28/23 11:06 |                     | 1.015 | 0.0187                              | mg/L  | 0.009135 | 0.05075    | J |
| * Arsenic, Total                    | 4/28/23 06:47 | 4/28/23 11:06 |                     | 1.015 | 0.0133                              | mg/L  | 0.000112 | 0.000203   |   |
| * Barium, Total                     | 4/28/23 06:47 | 4/28/23 11:06 |                     | 1.015 | 0.0980                              | mg/L  | 0.000508 | 0.001015   |   |
| * Beryllium, Total                  | 4/28/23 06:47 | 4/28/23 11:06 |                     | 1.015 | Not Detected                        | mg/L  | 0.000406 | 0.001015   | U |
| * Cadmium, Total                    | 4/28/23 06:47 | 4/28/23 11:06 |                     | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |
| * Chromium, Total                   | 4/28/23 06:47 | 4/28/23 11:06 |                     | 1.015 | 0.00253                             | mg/L  | 0.000203 | 0.001015   |   |
| * Cobalt, Total                     | 4/28/23 06:47 | 4/28/23 11:06 |                     | 1.015 | 0.00442                             | mg/L  | 0.000068 | 0.000203   |   |
| * Lead, Total                       | 4/28/23 06:47 | 4/28/23 11:06 |                     | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U |
| * Manganese, Total                  | 4/28/23 06:47 | 4/28/23 11:06 |                     | 1.015 | 0.475                               | mg/L  | 0.000152 | 0.001015   |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-20H

**Location Code:** WMWBARAP  
**Collected:** 4/24/23 16:06  
**Customer ID:**  
**Submittal Date:** 4/26/23 10:18

**Laboratory ID Number:** BD08115

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|---|
| * Potassium, Total                     | 4/28/23 06:47 | 4/28/23 11:06       |          | 1.015 | 3.27         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Total                      | 4/28/23 06:47 | 4/28/23 11:06       |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Total                      | 4/28/23 06:47 | 4/28/23 11:06       |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |   |
| * Antimony, Dissolved                  | 4/27/23 14:09 | 4/28/23 14:18       |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U |
| * Aluminum, Dissolved                  | 4/27/23 14:09 | 4/28/23 14:18       |          | 1.015 | 0.0126       | mg/L       | 0.009135 | 0.05075  | J |
| * Arsenic, Dissolved                   | 4/27/23 14:09 | 4/28/23 14:18       |          | 1.015 | 0.0133       | mg/L       | 0.000112 | 0.000203 |   |
| * Barium, Dissolved                    | 4/27/23 14:09 | 4/28/23 14:18       |          | 1.015 | 0.0958       | mg/L       | 0.000508 | 0.001015 |   |
| * Beryllium, Dissolved                 | 4/27/23 14:09 | 4/28/23 14:18       |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved                   | 4/27/23 14:09 | 4/28/23 14:18       |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved                  | 4/27/23 14:09 | 4/28/23 14:18       |          | 1.015 | 0.00239      | mg/L       | 0.000203 | 0.001015 |   |
| * Cobalt, Dissolved                    | 4/27/23 14:09 | 4/28/23 14:18       |          | 1.015 | 0.00430      | mg/L       | 0.000068 | 0.000203 |   |
| * Lead, Dissolved                      | 4/27/23 14:09 | 4/28/23 14:18       |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved                 | 4/27/23 14:09 | 4/28/23 14:18       |          | 1.015 | 0.475        | mg/L       | 0.000152 | 0.001015 |   |
| * Potassium, Dissolved                 | 4/27/23 14:09 | 4/28/23 14:18       |          | 1.015 | 3.31         | mg/L       | 0.169505 | 0.5075   |   |
| * Selenium, Dissolved                  | 4/27/23 14:09 | 4/28/23 14:18       |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved                  | 4/27/23 14:09 | 4/28/23 14:18       |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |   |
| * Mercury, Total by CVAA               | 4/26/23 14:52 | 4/26/23 20:20       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Nitrogen, Nitrate/Nitrite            | 4/28/23 15:50 | 4/28/23 15:50       |          | 1     | 0.292        | mg/L as N  | 0.20     | 0.3      | J |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Alkalinity to pH 4.5                 | 5/4/23 11:16  | 5/4/23 12:19        |          | 1     | 304          | mg CaCO3/L |          | 0.10     |   |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |   |
| * Solids, Dissolved                    | 4/27/23 13:15 | 5/1/23 10:20        |          | 1     | 473          | mg/L       |          | 25       |   |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |   |
| * Bicarbonate Alkalinity, (calc.)      | 5/4/23 11:16  | 5/4/23 12:19        |          | 1     | 304          | mg CaCO3/L |          | 1        |   |
| * Carbonate Alkalinity, (calc.)        | 5/4/23 11:16  | 5/4/23 12:19        |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |   |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |   |
| * Total Organic Carbon                 | 5/1/23 18:04  | 5/1/23 18:04        |          | 1     | 25.2         | mg/L       | 1.00     | 2        |   |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-20H

**Location Code:** WMWBARAP  
**Collected:** 4/24/23 16:06  
**Customer ID:**  
**Submittal Date:** 4/26/23 10:18

**Laboratory ID Number:** BD08115

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: JCC</b> |          |    |         |       |      |       |    |
| * Chloride                                   | 5/1/23 12:15  | 5/1/23 12:15        |          | 4  | 37.6    | mg/L  | 2.00 | 4     |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: JCC</b> |          |    |         |       |      |       |    |
| * Fluoride                                   | 5/2/23 13:40  | 5/2/23 13:40        |          | 1  | 0.0659  | mg/L  | 0.06 | 0.125 | J  |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |         |       |      |       |    |
| * Sulfate                                    | 4/28/23 12:01 | 4/28/23 12:01       |          | 3  | 63.6    | mg/L  | 1.8  | 6     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: AWG</b> |          |    |         |       |      |       |    |
| Conductivity                                 | 4/24/23 16:04 | 4/24/23 16:04       |          |    | 759.26  | uS/cm |      |       | FA |
| pH   | 4/24/23 16:04 | 4/24/23 16:04       |          |    | 6.16    | SU    |      |       | FA |
| Temperature                                  | 4/24/23 16:04 | 4/24/23 16:04       |          |    | 19.83   | C     |      |       | FA |
| Turbidity                                    | 4/24/23 16:04 | 4/24/23 16:04       |          |    | 1.8     | NTU   |      |       | FA |
| Sulfide                                      | 4/24/23 16:04 | 4/24/23 16:04       |          |    | 0       | mg/L  |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/24/23 16:06  
**Customer ID:**  
**Delivery Date:** 4/26/23 10:18

**Description:** Barry Ash Pond - MW-20H

**Laboratory ID Number:** BD08115

| Sample  | Analysis             | Units | MB         |          |       |        | Standard |          | Rec             |      | Prec        | Limit |       |
|---------|----------------------|-------|------------|----------|-------|--------|----------|----------|-----------------|------|-------------|-------|-------|
|         |                      |       | MB         | Limit    | Spike | MS     | MSD      | Standard | Limit           | Rec  |             |       | Limit |
| BD08116 | Aluminum, Dissolved  | mg/L  | 0.00331    | 0.0198   | 0.100 | 0.110  | 0.110    | 0.106    | 0.0850 to 0.115 | 110  | 70.0 to 130 | 0.00  | 20.0  |
| BD08116 | Aluminum, Total      | mg/L  | 0.00295    | 0.0198   | 0.100 | 0.113  | 0.111    | 0.106    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 1.79  | 20.0  |
| BD08116 | Antimony, Dissolved  | mg/L  | 0.000830   | 0.00100  | 0.100 | 0.107  | 0.105    | 0.0894   | 0.0850 to 0.115 | 107  | 70.0 to 130 | 1.89  | 20.0  |
| BD08116 | Antimony, Total      | mg/L  | 0.000650   | 0.00100  | 0.100 | 0.106  | 0.104    | 0.101    | 0.0850 to 0.115 | 106  | 70.0 to 130 | 1.90  | 20.0  |
| BD08116 | Arsenic, Dissolved   | mg/L  | 0.0000122  | 0.000200 | 0.100 | 0.0995 | 0.102    | 0.0994   | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 2.48  | 20.0  |
| BD08116 | Arsenic, Total       | mg/L  | 0.000123   | 0.000200 | 0.100 | 0.0987 | 0.100    | 0.0982   | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 1.31  | 20.0  |
| BD08116 | Barium, Dissolved    | mg/L  | 0.0000272  | 0.00100  | 0.100 | 0.246  | 0.243    | 0.101    | 0.0850 to 0.115 | 104  | 70.0 to 130 | 1.23  | 20.0  |
| BD08116 | Barium, Total        | mg/L  | 0.0000316  | 0.00100  | 0.100 | 0.244  | 0.240    | 0.102    | 0.0850 to 0.115 | 108  | 70.0 to 130 | 1.65  | 20.0  |
| BD08116 | Beryllium, Dissolved | mg/L  | 0.0000195  | 0.000880 | 0.100 | 0.101  | 0.104    | 0.104    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 2.93  | 20.0  |
| BD08116 | Beryllium, Total     | mg/L  | 0.0000178  | 0.000880 | 0.100 | 0.102  | 0.102    | 0.101    | 0.0850 to 0.115 | 102  | 70.0 to 130 | 0.00  | 20.0  |
| BD08116 | Boron, Dissolved     | mg/L  | 0.000249   | 0.0650   | 1.00  | 1.93   | 1.92     | 1.02     | 0.850 to 1.15   | 105  | 70.0 to 130 | 0.519 | 20.0  |
| BD08116 | Boron, Total         | mg/L  | 0.000124   | 0.0650   | 1.00  | 1.92   | 1.93     | 1.03     | 0.850 to 1.15   | 104  | 70.0 to 130 | 0.519 | 20.0  |
| BD08116 | Cadmium, Dissolved   | mg/L  | 0.0000027  | 0.000147 | 0.100 | 0.101  | 0.100    | 0.103    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 0.995 | 20.0  |
| BD08116 | Cadmium, Total       | mg/L  | 0.0000055  | 0.000147 | 0.100 | 0.100  | 0.0974   | 0.0985   | 0.0850 to 0.115 | 100  | 70.0 to 130 | 2.63  | 20.0  |
| BD08116 | Calcium, Dissolved   | mg/L  | -0.00637   | 0.152    | 5.00  | 35.1   | 34.3     | 4.99     | 4.25 to 5.75    | 132  | 70.0 to 130 | 2.31  | 20.0  |
| BD08116 | Calcium, Total       | mg/L  | 0.00590    | 0.152    | 5.00  | 33.7   | 33.8     | 4.91     | 4.25 to 5.75    | 104  | 70.0 to 130 | 0.296 | 20.0  |
| BD08116 | Chloride             | mg/L  | 0.0399     | 1.00     | 10.0  | 24.4   | 24.5     | 10.4     | 9.00 to 11.0    | 92.0 | 80.0 to 120 | 0.409 | 20.0  |
| BD08116 | Chromium, Dissolved  | mg/L  | -0.0000334 | 0.000440 | 0.100 | 0.100  | 0.0991   | 0.0996   | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 0.904 | 20.0  |
| BD08116 | Chromium, Total      | mg/L  | 0.000143   | 0.000440 | 0.100 | 0.101  | 0.0981   | 0.100    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 2.91  | 20.0  |
| BD08116 | Cobalt, Dissolved    | mg/L  | -0.0000223 | 0.000147 | 0.100 | 0.107  | 0.105    | 0.104    | 0.0850 to 0.115 | 106  | 70.0 to 130 | 1.89  | 20.0  |
| BD08116 | Cobalt, Total        | mg/L  | -0.0000221 | 0.000147 | 0.100 | 0.105  | 0.103    | 0.103    | 0.0850 to 0.115 | 104  | 70.0 to 130 | 1.92  | 20.0  |
| BD08116 | Fluoride             | mg/L  | 0.022      | 0.125    | 2.50  | 2.78   | 2.71     | 2.62     | 2.25 to 2.75    | 108  | 80.0 to 120 | 2.55  | 20.0  |
| BD08116 | Iron, Dissolved      | mg/L  | -0.00302   | 0.0176   | 0.2   | 73.2   | 72.3     | 0.192    | 0.170 to 0.230  | 1100 | 70.0 to 130 | 1.24  | 20.0  |
| BD08116 | Iron, Total          | mg/L  | 0.000805   | 0.0176   | 0.2   | 70.5   | 68.1     | 0.198    | 0.170 to 0.230  | 150  | 70.0 to 130 | 3.46  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/24/23 16:06  
**Customer ID:**  
**Delivery Date:** 4/26/23 10:18

**Description:** Barry Ash Pond - MW-20H

**Laboratory ID Number:** BD08115

| Sample  | Analysis               | Units | MB         |          |       |         |         | Standard |                    | Rec  |             |       | Prec Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|------------|
|         |                        |       | MB         | Limit    | Spike | MS      | MSD     | Standard | Limit              | Rec  | Limit       | Prec  |            |
| BD08116 | Lead, Dissolved        | mg/L  | 0.0000078  | 0.000147 | 0.100 | 0.104   | 0.105   | 0.102    | 0.0850 to 0.115    | 104  | 70.0 to 130 | 0.957 | 20.0       |
| BD08116 | Lead, Total            | mg/L  | 0.0000063  | 0.000147 | 0.100 | 0.104   | 0.107   | 0.109    | 0.0850 to 0.115    | 104  | 70.0 to 130 | 2.84  | 20.0       |
| BD08116 | Lithium, Dissolved     | mg/L  | 0.000195   | 0.0154   | 0.200 | 0.204   | 0.201   | 0.198    | 0.170 to 0.230     | 102  | 70.0 to 130 | 1.48  | 20.0       |
| BD08116 | Lithium, Total         | mg/L  | 0.000277   | 0.0154   | 0.200 | 0.203   | 0.207   | 0.200    | 0.170 to 0.230     | 102  | 70.0 to 130 | 1.95  | 20.0       |
| BD08116 | Magnesium, Dissolved   | mg/L  | -0.00516   | 0.0462   | 5.00  | 12.0    | 11.9    | 5.06     | 4.25 to 5.75       | 103  | 70.0 to 130 | 0.837 | 20.0       |
| BD08116 | Magnesium, Total       | mg/L  | -0.0114    | 0.0462   | 5.00  | 11.8    | 11.9    | 5.07     | 4.25 to 5.75       | 98.2 | 70.0 to 130 | 0.844 | 20.0       |
| BD08116 | Manganese, Dissolved   | mg/L  | 0.0000314  | 0.00033  | 0.100 | 1.60    | 1.57    | 0.101    | 0.0850 to 0.115    | 90.0 | 70.0 to 130 | 1.89  | 20.0       |
| BD08116 | Manganese, Total       | mg/L  | 0.000110   | 0.00033  | 0.100 | 1.67    | 1.59    | 0.102    | 0.0850 to 0.115    | 190  | 70.0 to 130 | 4.91  | 20.0       |
| BD08116 | Mercury, Total by CVAA | mg/L  | -4.000E-05 | 0.000500 | 0.004 | 0.00395 | 0.00396 | 0.00395  | 0.00340 to 0.00460 | 98.8 | 70.0 to 130 | 0.253 | 20.0       |
| BD08116 | Molybdenum, Dissolved  | mg/L  | 0.00153    | 0.0100   | 0.2   | 0.195   | 0.195   | 0.194    | 0.170 to 0.230     | 97.5 | 70.0 to 130 | 0.00  | 20.0       |
| BD08116 | Molybdenum, Total      | mg/L  | 0.001      | 0.0100   | 0.2   | 0.194   | 0.197   | 0.194    | 0.170 to 0.230     | 97.0 | 70.0 to 130 | 1.53  | 20.0       |
| BD08116 | Potassium, Dissolved   | mg/L  | 0.0132     | 0.367    | 10.0  | 11.6    | 11.5    | 9.92     | 8.50 to 11.5       | 102  | 70.0 to 130 | 0.866 | 20.0       |
| BD08116 | Potassium, Total       | mg/L  | 0.00927    | 0.367    | 10.0  | 11.5    | 11.1    | 10.1     | 8.50 to 11.5       | 101  | 70.0 to 130 | 3.54  | 20.0       |
| BD08116 | Selenium, Dissolved    | mg/L  | 0.000101   | 0.00100  | 0.100 | 0.104   | 0.105   | 0.104    | 0.0850 to 0.115    | 104  | 70.0 to 130 | 0.957 | 20.0       |
| BD08116 | Selenium, Total        | mg/L  | 0.0000944  | 0.00100  | 0.100 | 0.101   | 0.101   | 0.103    | 0.0850 to 0.115    | 101  | 70.0 to 130 | 0.00  | 20.0       |
| BD08116 | Silicon, Dissolved     | mg/L  | -0.000887  | 0.0440   | 1.00  | 14.4    | 14.3    | 1.01     | 0.850 to 1.15      | 100  | 70.0 to 130 | 0.697 | 20.0       |
| BD08116 | Silicon, Total         | mg/L  | -0.000333  | 0.0440   | 1.00  | 14.3    | 14.3    | 1.02     | 0.850 to 1.15      | 90.0 | 70.0 to 130 | 0.00  | 20.0       |
| BD08116 | Sodium, Dissolved      | mg/L  | 0.00269    | 0.0880   | 5.00  | 20.2    | 20.0    | 4.92     | 4.25 to 5.75       | 92.0 | 70.0 to 130 | 0.995 | 20.0       |
| BD08116 | Sodium, Total          | mg/L  | 0.00556    | 0.0880   | 5.00  | 19.9    | 20.2    | 5.00     | 4.25 to 5.75       | 90.0 | 70.0 to 130 | 1.50  | 20.0       |
| BD08116 | Sulfate                | mg/L  | 0.0983     | 2.0      | 75.0  | 103     | 103     | 19.7     | 18.0 to 22.0       | 85.7 | 80.0 to 120 | 0.00  | 20.0       |
| BD08116 | Thallium, Dissolved    | mg/L  | -0.0000230 | 0.000147 | 0.100 | 0.105   | 0.103   | 0.103    | 0.0850 to 0.115    | 105  | 70.0 to 130 | 1.92  | 20.0       |
| BD08116 | Thallium, Total        | mg/L  | -0.0000206 | 0.000147 | 0.100 | 0.104   | 0.106   | 0.107    | 0.0850 to 0.115    | 104  | 70.0 to 130 | 1.90  | 20.0       |
| BD08116 | Total Organic Carbon   | mg/L  | 0.112      | 1.00     | 10.0  | 16.9    | 18.0    | 8.96     |                    | 88.3 | 80.0 to 120 | 6.30  | 20.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/24/23 16:06

**Customer ID:**

**Delivery Date:** 4/26/23 10:18

**Description:** Barry Ash Pond - MW-20H

**Laboratory ID Number:** BD08115

| Sample  | Analysis                  | Units      | MB   | MB Limit | Spike | MS   | Sample Duplicate | Standard Standard | Standard Limit | Rec  | Rec Limit   | Prec  | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|-------------------|----------------|------|-------------|-------|------------|
| BD08116 | Alkalinity to pH 4.5      | mg CaCO3/L |      |          |       |      | 164              | 51.2              | 45.0 to 55.0   |      |             | 0.608 | 10.0       |
| BD08116 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.08 | 0.200    | 2.00  | 2.22 | 0.340            | 2.20              | 1.80 to 2.20   | 93.8 | 90.0 to 110 | 1.17  | 15.0       |
| BD08198 | Solids, Dissolved         | mg/L       | 1.00 | 25.0     |       |      | 830              | 51.0              | 40.0 to 60.0   |      |             | 0.00  | 10.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-19H

**Location Code:** WMWBARAP  
**Collected:** 4/24/23 17:55  
**Customer ID:**  
**Submittal Date:** 4/26/23 10:18

**Laboratory ID Number:** BD08116

| Name                                | Prepared      | Analyzed      | Vio Spec            | DF    | Results                             | Units | MDL      | RL         | Q  |
|-------------------------------------|---------------|---------------|---------------------|-------|-------------------------------------|-------|----------|------------|----|
| <b>Analytical Method: EPA 200.7</b> |               |               | <b>Analyst: ABB</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |    |
| * Boron, Total                      | 4/28/23 06:47 | 5/4/23 10:18  |                     | 1.015 | 0.876                               | mg/L  | 0.030000 | 0.1015     |    |
| * Calcium, Total                    | 4/28/23 06:47 | 5/4/23 10:18  |                     | 1.015 | 28.5                                | mg/L  | 0.070035 | 0.406      |    |
| * Iron, Total                       | 4/28/23 06:47 | 5/4/23 11:47  |                     | 101.5 | 70.2                                | mg/L  | 0.8120   | 4.06       | RA |
| * Lithium, Total                    | 4/28/23 06:47 | 5/4/23 10:18  |                     | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U  |
| * Magnesium, Total                  | 4/28/23 06:47 | 5/4/23 10:18  |                     | 1.015 | 6.89                                | mg/L  | 0.021315 | 0.406      |    |
| * Molybdenum, Total                 | 4/28/23 06:47 | 5/4/23 10:18  |                     | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U  |
| * Silica, Total (calc.)             | 4/28/23 06:47 | 5/4/23 10:18  |                     | 1     | 28.7                                | mg/L  |          |            |    |
| * Silicon, Total                    | 4/28/23 06:47 | 5/4/23 10:18  |                     | 1.015 | 13.4                                | mg/L  | 0.02030  | 0.25375    |    |
| * Sodium, Total                     | 4/28/23 06:47 | 5/4/23 10:18  |                     | 1.015 | 15.4                                | mg/L  | 0.04060  | 0.406      |    |
| <b>Analytical Method: EPA 200.7</b> |               |               | <b>Analyst: ABB</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |    |
| * Boron, Dissolved                  | 4/27/23 14:09 | 5/4/23 09:50  |                     | 1.015 | 0.880                               | mg/L  | 0.030000 | 0.1015     |    |
| * Calcium, Dissolved                | 4/27/23 14:09 | 5/4/23 09:50  |                     | 1.015 | 28.5                                | mg/L  | 0.070035 | 0.406      | RA |
| * Iron, Dissolved                   | 4/27/23 14:09 | 5/4/23 11:28  |                     | 101.5 | 71.0                                | mg/L  | 0.8120   | 4.06       | RA |
| * Lithium, Dissolved                | 4/27/23 14:09 | 5/4/23 09:50  |                     | 1.015 | Not Detected                        | mg/L  | 0.007105 | 0.01999956 | U  |
| * Magnesium, Dissolved              | 4/27/23 14:09 | 5/4/23 09:50  |                     | 1.015 | 6.86                                | mg/L  | 0.021315 | 0.406      |    |
| * Molybdenum, Dissolved             | 4/27/23 14:09 | 5/4/23 09:50  |                     | 1.015 | Not Detected                        | mg/L  | 0.005075 | 0.01015    | U  |
| * Silica, Dissolved (calc.)         | 4/27/23 14:09 | 5/4/23 09:50  |                     | 1     | 28.7                                | mg/L  |          |            |    |
| * Silicon, Dissolved                | 4/27/23 14:09 | 5/4/23 09:50  |                     | 1.015 | 13.4                                | mg/L  | 0.02030  | 0.25375    |    |
| * Sodium, Dissolved                 | 4/27/23 14:09 | 5/4/23 09:50  |                     | 1.015 | 15.6                                | mg/L  | 0.04060  | 0.406      |    |
| <b>Analytical Method: EPA 200.8</b> |               |               | <b>Analyst: DLJ</b> |       | <b>Preparation Method: EPA 1638</b> |       |          |            |    |
| * Antimony, Total                   | 4/28/23 06:47 | 4/28/23 11:10 |                     | 1.015 | Not Detected                        | mg/L  | 0.000710 | 0.001015   | U  |
| * Aluminum, Total                   | 4/28/23 06:47 | 4/28/23 11:10 |                     | 1.015 | 0.0117                              | mg/L  | 0.009135 | 0.05075    | J  |
| * Arsenic, Total                    | 4/28/23 06:47 | 4/28/23 11:10 |                     | 1.015 | 0.000745                            | mg/L  | 0.000112 | 0.000203   |    |
| * Barium, Total                     | 4/28/23 06:47 | 4/28/23 11:10 |                     | 1.015 | 0.136                               | mg/L  | 0.000508 | 0.001015   |    |
| * Beryllium, Total                  | 4/28/23 06:47 | 4/28/23 11:10 |                     | 1.015 | Not Detected                        | mg/L  | 0.000406 | 0.001015   | U  |
| * Cadmium, Total                    | 4/28/23 06:47 | 4/28/23 11:10 |                     | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U  |
| * Chromium, Total                   | 4/28/23 06:47 | 4/28/23 11:10 |                     | 1.015 | 0.000396                            | mg/L  | 0.000203 | 0.001015   | J  |
| * Cobalt, Total                     | 4/28/23 06:47 | 4/28/23 11:10 |                     | 1.015 | 0.00147                             | mg/L  | 0.000068 | 0.000203   |    |
| * Lead, Total                       | 4/28/23 06:47 | 4/28/23 11:10 |                     | 1.015 | Not Detected                        | mg/L  | 0.000068 | 0.000203   | U  |
| * Manganese, Total                  | 4/28/23 06:47 | 4/28/23 19:20 |                     | 5.075 | 1.48                                | mg/L  | 0.000761 | 0.005075   | RA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-19H

**Location Code:** WMWBARAP  
**Collected:** 4/24/23 17:55  
**Customer ID:**  
**Submittal Date:** 4/26/23 10:18

**Laboratory ID Number:** BD08116

| Name                                   | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units      | MDL      | RL       | Q  |
|--|---------------|---------------------|----------|-------|--------------|------------|----------|----------|----|
| * Potassium, Total                     | 4/28/23 06:47 | 4/28/23 11:10       |          | 1.015 | 1.41         | mg/L       | 0.169505 | 0.5075   |    |
| * Selenium, Total                      | 4/28/23 06:47 | 4/28/23 11:10       |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U  |
| * Thallium, Total                      | 4/28/23 06:47 | 4/28/23 11:10       |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U  |
| <b>Analytical Method: EPA 200.8</b>    |               | <b>Analyst: DLJ</b> |          |       |              |            |          |          |    |
| * Antimony, Dissolved                  | 4/27/23 14:09 | 4/28/23 14:22       |          | 1.015 | Not Detected | mg/L       | 0.000710 | 0.001015 | U  |
| * Aluminum, Dissolved                  | 4/27/23 14:09 | 4/28/23 14:22       |          | 1.015 | Not Detected | mg/L       | 0.009135 | 0.05075  | U  |
| * Arsenic, Dissolved                   | 4/27/23 14:09 | 4/28/23 14:22       |          | 1.015 | 0.000632     | mg/L       | 0.000112 | 0.000203 |    |
| * Barium, Dissolved                    | 4/27/23 14:09 | 4/28/23 14:22       |          | 1.015 | 0.142        | mg/L       | 0.000508 | 0.001015 |    |
| * Beryllium, Dissolved                 | 4/27/23 14:09 | 4/28/23 14:22       |          | 1.015 | Not Detected | mg/L       | 0.000406 | 0.001015 | U  |
| * Cadmium, Dissolved                   | 4/27/23 14:09 | 4/28/23 14:22       |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U  |
| * Chromium, Dissolved                  | 4/27/23 14:09 | 4/28/23 14:22       |          | 1.015 | 0.000336     | mg/L       | 0.000203 | 0.001015 | J  |
| * Cobalt, Dissolved                    | 4/27/23 14:09 | 4/28/23 14:22       |          | 1.015 | 0.00138      | mg/L       | 0.000068 | 0.000203 |    |
| * Lead, Dissolved                      | 4/27/23 14:09 | 4/28/23 14:22       |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U  |
| * Manganese, Dissolved                 | 4/27/23 14:09 | 4/28/23 19:06       |          | 5.075 | 1.51         | mg/L       | 0.000761 | 0.005075 | RA |
| * Potassium, Dissolved                 | 4/27/23 14:09 | 4/28/23 14:22       |          | 1.015 | 1.42         | mg/L       | 0.169505 | 0.5075   |    |
| * Selenium, Dissolved                  | 4/27/23 14:09 | 4/28/23 14:22       |          | 1.015 | Not Detected | mg/L       | 0.000508 | 0.001015 | U  |
| * Thallium, Dissolved                  | 4/27/23 14:09 | 4/28/23 14:22       |          | 1.015 | Not Detected | mg/L       | 0.000068 | 0.000203 | U  |
| <b>Analytical Method: EPA 245.1</b>    |               | <b>Analyst: CRB</b> |          |       |              |            |          |          |    |
| * Mercury, Total by CVAA               | 4/26/23 14:52 | 4/26/23 20:24       |          | 1     | Not Detected | mg/L       | 0.0003   | 0.0005   | U  |
| <b>Analytical Method: EPA 353.2</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |    |
| * Nitrogen, Nitrate/Nitrite            | 4/28/23 15:52 | 4/28/23 15:52       |          | 1     | 0.344        | mg/L as N  | 0.20     | 0.3      |    |
| <b>Analytical Method: SM 2320 B</b>    |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |    |
| * Alkalinity to pH 4.5                 | 5/4/23 11:16  | 5/4/23 12:19        |          | 1     | 165          | mg CaCO3/L |          | 0.10     |    |
| <b>Analytical Method: SM 2540C</b>     |               | <b>Analyst: CNJ</b> |          |       |              |            |          |          |    |
| * Solids, Dissolved                    | 4/27/23 13:15 | 5/1/23 10:20        |          | 1     | 261          | mg/L       |          | 25       |    |
| <b>Analytical Method: SM 4500CO2 D</b> |               | <b>Analyst: ALH</b> |          |       |              |            |          |          |    |
| * Bicarbonate Alkalinity, (calc.)      | 5/4/23 11:16  | 5/4/23 12:19        |          | 1     | 165          | mg CaCO3/L |          | 1        |    |
| * Carbonate Alkalinity, (calc.)        | 5/4/23 11:16  | 5/4/23 12:19        |          | 1     | Not Detected | mg CaCO3/L |          | 0.5      |    |
| <b>Analytical Method: SM 5310 B</b>    |               | <b>Analyst: SC</b>  |          |       |              |            |          |          |    |
| * Total Organic Carbon                 | 5/1/23 18:23  | 5/1/23 18:23        |          | 1     | 8.07         | mg/L       | 1.00     | 2        |    |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Barry Ash Pond - MW-19H

**Location Code:** WMWBARAP  
**Collected:** 4/24/23 17:55  
**Customer ID:**  
**Submittal Date:** 4/26/23 10:18

**Laboratory ID Number:** BD08116

| Name   | Prepared      | Analyzed            | Vio Spec | DF | Results | Units | MDL  | RL    | Q  |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: JCC</b> |          |    |         |       |      |       |    |
| * Chloride                                   | 5/1/23 12:08  | 5/1/23 12:08        |          | 1  | 15.2    | mg/L  | 0.50 | 1     |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: JCC</b> |          |    |         |       |      |       |    |
| * Fluoride                                   | 5/2/23 13:41  | 5/2/23 13:41        |          | 1  | 0.083   | mg/L  | 0.06 | 0.125 | J  |
| <b>Analytical Method: SM4500SO4 E 2011</b>   |               | <b>Analyst: JCC</b> |          |    |         |       |      |       |    |
| * Sulfate                                    | 4/28/23 12:02 | 4/28/23 12:02       |          | 3  | 38.7    | mg/L  | 1.8  | 6     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: AWG</b> |          |    |         |       |      |       |    |
| Conductivity                                 | 4/24/23 17:51 | 4/24/23 17:51       |          |    | 435.36  | uS/cm |      |       | FA |
| pH   | 4/24/23 17:51 | 4/24/23 17:51       |          |    | 6.35    | SU    |      |       | FA |
| Temperature                                  | 4/24/23 17:51 | 4/24/23 17:51       |          |    | 20.04   | C     |      |       | FA |
| Turbidity                                    | 4/24/23 17:51 | 4/24/23 17:51       |          |    | 0.9     | NTU   |      |       | FA |
| Sulfide                                      | 4/24/23 17:51 | 4/24/23 17:51       |          |    | 0       | mg/L  |      |       | FA |

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/24/23 17:55  
**Customer ID:**  
**Delivery Date:** 4/26/23 10:18

**Description:** Barry Ash Pond - MW-19H

**Laboratory ID Number:** BD08116

| Sample  | Analysis             | Units | MB         |          | Spike | MS     | MSD    | Standard |                 | Rec  |             | Prec  | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
|         |                      |       | MB         | Limit    |       |        |        | Standard | Limit           | Rec  | Limit       |       |       |
| BD08116 | Aluminum, Dissolved  | mg/L  | 0.00331    | 0.0198   | 0.100 | 0.110  | 0.110  | 0.106    | 0.0850 to 0.115 | 110  | 70.0 to 130 | 0.00  | 20.0  |
| BD08116 | Aluminum, Total      | mg/L  | 0.00295    | 0.0198   | 0.100 | 0.113  | 0.111  | 0.106    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 1.79  | 20.0  |
| BD08116 | Antimony, Dissolved  | mg/L  | 0.000830   | 0.00100  | 0.100 | 0.107  | 0.105  | 0.0894   | 0.0850 to 0.115 | 107  | 70.0 to 130 | 1.89  | 20.0  |
| BD08116 | Antimony, Total      | mg/L  | 0.000650   | 0.00100  | 0.100 | 0.106  | 0.104  | 0.101    | 0.0850 to 0.115 | 106  | 70.0 to 130 | 1.90  | 20.0  |
| BD08116 | Arsenic, Dissolved   | mg/L  | 0.0000122  | 0.000200 | 0.100 | 0.0995 | 0.102  | 0.0994   | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 2.48  | 20.0  |
| BD08116 | Arsenic, Total       | mg/L  | 0.000123   | 0.000200 | 0.100 | 0.0987 | 0.100  | 0.0982   | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 1.31  | 20.0  |
| BD08116 | Barium, Dissolved    | mg/L  | 0.0000272  | 0.00100  | 0.100 | 0.246  | 0.243  | 0.101    | 0.0850 to 0.115 | 104  | 70.0 to 130 | 1.23  | 20.0  |
| BD08116 | Barium, Total        | mg/L  | 0.0000316  | 0.00100  | 0.100 | 0.244  | 0.240  | 0.102    | 0.0850 to 0.115 | 108  | 70.0 to 130 | 1.65  | 20.0  |
| BD08116 | Beryllium, Dissolved | mg/L  | 0.0000195  | 0.000880 | 0.100 | 0.101  | 0.104  | 0.104    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 2.93  | 20.0  |
| BD08116 | Beryllium, Total     | mg/L  | 0.0000178  | 0.000880 | 0.100 | 0.102  | 0.102  | 0.101    | 0.0850 to 0.115 | 102  | 70.0 to 130 | 0.00  | 20.0  |
| BD08116 | Boron, Dissolved     | mg/L  | 0.000249   | 0.0650   | 1.00  | 1.93   | 1.92   | 1.02     | 0.850 to 1.15   | 105  | 70.0 to 130 | 0.519 | 20.0  |
| BD08116 | Boron, Total         | mg/L  | 0.000124   | 0.0650   | 1.00  | 1.92   | 1.93   | 1.03     | 0.850 to 1.15   | 104  | 70.0 to 130 | 0.519 | 20.0  |
| BD08116 | Cadmium, Dissolved   | mg/L  | 0.0000027  | 0.000147 | 0.100 | 0.101  | 0.100  | 0.103    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 0.995 | 20.0  |
| BD08116 | Cadmium, Total       | mg/L  | 0.0000055  | 0.000147 | 0.100 | 0.100  | 0.0974 | 0.0985   | 0.0850 to 0.115 | 100  | 70.0 to 130 | 2.63  | 20.0  |
| BD08116 | Calcium, Dissolved   | mg/L  | -0.00637   | 0.152    | 5.00  | 35.1   | 34.3   | 4.99     | 4.25 to 5.75    | 132  | 70.0 to 130 | 2.31  | 20.0  |
| BD08116 | Calcium, Total       | mg/L  | 0.00590    | 0.152    | 5.00  | 33.7   | 33.8   | 4.91     | 4.25 to 5.75    | 104  | 70.0 to 130 | 0.296 | 20.0  |
| BD08116 | Chloride             | mg/L  | 0.0399     | 1.00     | 10.0  | 24.4   | 24.5   | 10.4     | 9.00 to 11.0    | 92.0 | 80.0 to 120 | 0.409 | 20.0  |
| BD08116 | Chromium, Dissolved  | mg/L  | -0.0000334 | 0.000440 | 0.100 | 0.100  | 0.0991 | 0.0996   | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 0.904 | 20.0  |
| BD08116 | Chromium, Total      | mg/L  | 0.000143   | 0.000440 | 0.100 | 0.101  | 0.0981 | 0.100    | 0.0850 to 0.115 | 101  | 70.0 to 130 | 2.91  | 20.0  |
| BD08116 | Cobalt, Dissolved    | mg/L  | -0.0000223 | 0.000147 | 0.100 | 0.107  | 0.105  | 0.104    | 0.0850 to 0.115 | 106  | 70.0 to 130 | 1.89  | 20.0  |
| BD08116 | Cobalt, Total        | mg/L  | -0.0000221 | 0.000147 | 0.100 | 0.105  | 0.103  | 0.103    | 0.0850 to 0.115 | 104  | 70.0 to 130 | 1.92  | 20.0  |
| BD08116 | Fluoride             | mg/L  | 0.022      | 0.125    | 2.50  | 2.78   | 2.71   | 2.62     | 2.25 to 2.75    | 108  | 80.0 to 120 | 2.55  | 20.0  |
| BD08116 | Iron, Dissolved      | mg/L  | -0.00302   | 0.0176   | 0.2   | 73.2   | 72.3   | 0.192    | 0.170 to 0.230  | 1100 | 70.0 to 130 | 1.24  | 20.0  |
| BD08116 | Iron, Total          | mg/L  | 0.000805   | 0.0176   | 0.2   | 70.5   | 68.1   | 0.198    | 0.170 to 0.230  | 150  | 70.0 to 130 | 3.46  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWBARAP  
**Sample Date:** 4/24/23 17:55  
**Customer ID:**  
**Delivery Date:** 4/26/23 10:18

**Description:** Barry Ash Pond - MW-19H

**Laboratory ID Number:** BD08116

| Sample  | Analysis               | Units | MB         |          |       |         |         | Standard |                    | Rec  |             | Prec  | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
|         |                        |       | MB         | Limit    | Spike | MS      | MSD     | Standard | Limit              | Rec  | Limit       |       |       |
| BD08116 | Lead, Dissolved        | mg/L  | 0.0000078  | 0.000147 | 0.100 | 0.104   | 0.105   | 0.102    | 0.0850 to 0.115    | 104  | 70.0 to 130 | 0.957 | 20.0  |
| BD08116 | Lead, Total            | mg/L  | 0.0000063  | 0.000147 | 0.100 | 0.104   | 0.107   | 0.109    | 0.0850 to 0.115    | 104  | 70.0 to 130 | 2.84  | 20.0  |
| BD08116 | Lithium, Dissolved     | mg/L  | 0.000195   | 0.0154   | 0.200 | 0.204   | 0.201   | 0.198    | 0.170 to 0.230     | 102  | 70.0 to 130 | 1.48  | 20.0  |
| BD08116 | Lithium, Total         | mg/L  | 0.000277   | 0.0154   | 0.200 | 0.203   | 0.207   | 0.200    | 0.170 to 0.230     | 102  | 70.0 to 130 | 1.95  | 20.0  |
| BD08116 | Magnesium, Dissolved   | mg/L  | -0.00516   | 0.0462   | 5.00  | 12.0    | 11.9    | 5.06     | 4.25 to 5.75       | 103  | 70.0 to 130 | 0.837 | 20.0  |
| BD08116 | Magnesium, Total       | mg/L  | -0.0114    | 0.0462   | 5.00  | 11.8    | 11.9    | 5.07     | 4.25 to 5.75       | 98.2 | 70.0 to 130 | 0.844 | 20.0  |
| BD08116 | Manganese, Dissolved   | mg/L  | 0.0000314  | 0.00033  | 0.100 | 1.60    | 1.57    | 0.101    | 0.0850 to 0.115    | 90.0 | 70.0 to 130 | 1.89  | 20.0  |
| BD08116 | Manganese, Total       | mg/L  | 0.000110   | 0.00033  | 0.100 | 1.67    | 1.59    | 0.102    | 0.0850 to 0.115    | 190  | 70.0 to 130 | 4.91  | 20.0  |
| BD08116 | Mercury, Total by CVAA | mg/L  | -4.000E-05 | 0.000500 | 0.004 | 0.00395 | 0.00396 | 0.00395  | 0.00340 to 0.00460 | 98.8 | 70.0 to 130 | 0.253 | 20.0  |
| BD08116 | Molybdenum, Dissolved  | mg/L  | 0.00153    | 0.0100   | 0.2   | 0.195   | 0.195   | 0.194    | 0.170 to 0.230     | 97.5 | 70.0 to 130 | 0.00  | 20.0  |
| BD08116 | Molybdenum, Total      | mg/L  | 0.001      | 0.0100   | 0.2   | 0.194   | 0.197   | 0.194    | 0.170 to 0.230     | 97.0 | 70.0 to 130 | 1.53  | 20.0  |
| BD08116 | Potassium, Dissolved   | mg/L  | 0.0132     | 0.367    | 10.0  | 11.6    | 11.5    | 9.92     | 8.50 to 11.5       | 102  | 70.0 to 130 | 0.866 | 20.0  |
| BD08116 | Potassium, Total       | mg/L  | 0.00927    | 0.367    | 10.0  | 11.5    | 11.1    | 10.1     | 8.50 to 11.5       | 101  | 70.0 to 130 | 3.54  | 20.0  |
| BD08116 | Selenium, Dissolved    | mg/L  | 0.000101   | 0.00100  | 0.100 | 0.104   | 0.105   | 0.104    | 0.0850 to 0.115    | 104  | 70.0 to 130 | 0.957 | 20.0  |
| BD08116 | Selenium, Total        | mg/L  | 0.0000944  | 0.00100  | 0.100 | 0.101   | 0.101   | 0.103    | 0.0850 to 0.115    | 101  | 70.0 to 130 | 0.00  | 20.0  |
| BD08116 | Silicon, Dissolved     | mg/L  | -0.000887  | 0.0440   | 1.00  | 14.4    | 14.3    | 1.01     | 0.850 to 1.15      | 100  | 70.0 to 130 | 0.697 | 20.0  |
| BD08116 | Silicon, Total         | mg/L  | -0.000333  | 0.0440   | 1.00  | 14.3    | 14.3    | 1.02     | 0.850 to 1.15      | 90.0 | 70.0 to 130 | 0.00  | 20.0  |
| BD08116 | Sodium, Dissolved      | mg/L  | 0.00269    | 0.0880   | 5.00  | 20.2    | 20.0    | 4.92     | 4.25 to 5.75       | 92.0 | 70.0 to 130 | 0.995 | 20.0  |
| BD08116 | Sodium, Total          | mg/L  | 0.00556    | 0.0880   | 5.00  | 19.9    | 20.2    | 5.00     | 4.25 to 5.75       | 90.0 | 70.0 to 130 | 1.50  | 20.0  |
| BD08116 | Sulfate                | mg/L  | 0.0983     | 2.0      | 75.0  | 103     | 103     | 19.7     | 18.0 to 22.0       | 85.7 | 80.0 to 120 | 0.00  | 20.0  |
| BD08116 | Thallium, Dissolved    | mg/L  | -0.0000230 | 0.000147 | 0.100 | 0.105   | 0.103   | 0.103    | 0.0850 to 0.115    | 105  | 70.0 to 130 | 1.92  | 20.0  |
| BD08116 | Thallium, Total        | mg/L  | -0.0000206 | 0.000147 | 0.100 | 0.104   | 0.106   | 0.107    | 0.0850 to 0.115    | 104  | 70.0 to 130 | 1.90  | 20.0  |
| BD08116 | Total Organic Carbon   | mg/L  | 0.112      | 1.00     | 10.0  | 16.9    | 18.0    | 8.96     |                    | 88.3 | 80.0 to 120 | 6.30  | 20.0  |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWBARAP

**Sample Date:** 4/24/23 17:55

**Customer ID:**

**Delivery Date:** 4/26/23 10:18

**Description:** Barry Ash Pond - MW-19H

**Laboratory ID Number:** BD08116

| Sample  | Analysis                  | Units      | MB   | MB Limit | Spike | MS   | Sample Duplicate | Standard Standard | Standard Limit | Rec  | Rec Limit   | Prec  | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|-------------------|----------------|------|-------------|-------|------------|
| BD08116 | Alkalinity to pH 4.5      | mg CaCO3/L |      |          |       |      | 164              | 51.2              | 45.0 to 55.0   |      |             | 0.608 | 10.0       |
| BD08116 | Nitrogen, Nitrate/Nitrite | mg/L as N  | 0.08 | 0.200    | 2.00  | 2.22 | 0.340            | 2.20              | 1.80 to 2.20   | 93.8 | 90.0 to 110 | 1.17  | 15.0       |
| BD08198 | Solids, Dissolved         | mg/L       | 1.00 | 25.0     |       |      | 830              | 51.0              | 40.0 to 60.0   |      |             | 0.00  | 10.0       |

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Definitions

**Project Number:** WMWBARAP\_1404

| Abbreviation | Description   |
|--------------|---|
| DF           | Dilution Factor   |
| LCS          | Lab Control Sample  |
| LFM          | Lab Fortified Matrix  |
| MB           | Method Blank  |
| MDL          | Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero. |
| MS           | Matrix Spike  |
| MSD          | Matrix Spike Duplicate  |
| Prec         | Precision (% RPD)   |
| Q            | Qualifier; comment used to note deviations or additional information associated with analytical results.  |
| QC           | Quality Control   |
| Rec          | Recovery of Matrix Spike  |
| RL           | Reporting Limit; lowest concentration at which an analyte can be quantitatively measured.   |
| Vio Spec     | Violation Specification; regulatory limit which has been exceeded by the sample analyzed.   |

| Qualifier | Description  |
|-----------|--|
| A         | Bicarbonate alkalinity, carbonate alkalinity, hydroxide alkalinity, free carbon dioxide, and/or total carbon dioxide calculations are estimates due to pH>10SU and/or TDS>500mg/L. |
| FA        | Field results were reviewed by the Water Field Group. Refer to APC Field Case Narrative.   |
| J         | Reported value is an estimate because concentration is less than reporting limit.  |
| R         | Matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.  |
| RA        | Matrix spike is invalid due to sample concentration.   |
| U         | Compound was analyzed, but not detected.   |



# Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

|                         |               |              |                          |
|-------------------------|---------------|--------------|--------------------------|
| Requested Complete Date | Routine       | Results To   | Dustin Brooks, Greg Dyer |
| Collector               | Dallas Gentry | Requested By | Greg Dyer                |
|                         |               | Location     | Barry Ash Pond           |

|         |   |                  |        |   |                       |        |   |                |        |   |     |     |
|---------|---|------------------|--------|---|-----------------------|--------|---|----------------|--------|---|-----|-----|
| Bottles | 1 | Metals           | 500 mL | 3 | Hg                    | 250 mL | 5 | TDS/Alkalinity | 500 mL | 7 | N/A | N/A |
|         | 2 | Dissolved Metals | 500 mL | 4 | Nitrite, Nitrate; TOC | 250 mL | 6 | Anions         | 500 mL | 8 | N/A | N/A |

Comments: Relinquish to shipping room at 1447. GFH 04/04/23

| Sample # | Date       | Time  | Bottle Count | Description      | Lab Filter | Lab Id  | pH Check                            |
|----------|------------|-------|--------------|------------------|------------|---------|-------------------------------------|
| MW-8     | 04/03/2023 | 09:42 | 6            | Groundwater      |            | BD06618 | <input checked="" type="checkbox"/> |
| MW-10    | 04/03/2023 | 12:42 | 6            | Groundwater      |            | BD06619 | <input checked="" type="checkbox"/> |
| MW-8V    | 04/03/2023 | 15:40 | 6            | Groundwater      |            | BD06620 | <input checked="" type="checkbox"/> |
| MW-9     | 04/04/2023 | 08:47 | 6            | Groundwater      |            | BD06621 | <input checked="" type="checkbox"/> |
| MW-9 dup | 04/04/2023 | 08:47 | 6            | Sample Duplicate |            | BD06622 | <input checked="" type="checkbox"/> |
| FB-3     | 04/04/2023 | 09:20 | 5            | Field Blank      |            | BD06623 | <input checked="" type="checkbox"/> |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |

|                 |   |                  |
|-----------------|---|------------------|
| Relinquished By | Received By   | Date/Time        |
|                 |   | 04/04/2023 10:29 |
|                 | Renee Jernigan<br><small>Digitally signed by Renee Jernigan<br/>Date: 2023.04.05 07:54:40 -05'00'</small> |                  |
|                 |   |                  |

|              |                |                |                  |
|--------------|----------------|----------------|------------------|
| SmarTroll ID | 7586-41443-5-2 | Cooler Temp    | 0.4 °C           |
| Turbidity ID | 9901-57263-1-1 | Thermometer ID | 10614-61208-2-1  |
| Sample Event | 1404           | pH Strip ID    | 10429-60252-10-8 |

Bottles/Pre-Preserved Bottles are provided by the GTL.  
Total Metals and Alkalinity are not performed on Dissolved Sets  
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

|                         |              |              |                          |
|-------------------------|--------------|--------------|--------------------------|
| Requested Complete Date | Routine      | Results To   | Dustin Brooks, Greg Dyer |
| Collector               | TJ Daugherty | Requested By | Greg Dyer                |
|                         |              | Location     | Barry Ash Pond           |

|         |   |                  |        |   |                       |        |   |                |        |   |     |     |
|---------|---|------------------|--------|---|-----------------------|--------|---|----------------|--------|---|-----|-----|
| Bottles | 1 | Metals           | 500 mL | 3 | Hg                    | 250 mL | 5 | TDS/Alkalinity | 500 mL | 7 | N/A | N/A |
|         | 2 | Dissolved Metals | 500 mL | 4 | Nitrite, Nitrate; TOC | 250 mL | 6 | Anions         | 500 mL | 8 | N/A | N/A |

Comments: Relinquish to shipping room at 1447. GFH 04/04/23

| Sample # | Date       | Time  | Bottle Count | Description | Lab Filter | Lab Id  | pH Check                            |
|----------|------------|-------|--------------|-------------|------------|---------|-------------------------------------|
| MW-1     | 04/03/2023 | 08:50 | 6            | Groundwater |            | BD06611 | <input checked="" type="checkbox"/> |
| MW-2     | 04/03/2023 | 11:23 | 6            | Groundwater |            | BD06612 | <input checked="" type="checkbox"/> |
| MW-10V   | 04/03/2023 | 15:16 | 6            | Groundwater |            | BD06613 | <input checked="" type="checkbox"/> |
| MW-7V    | 04/03/2023 | 16:40 | 6            | Groundwater |            | BD06614 | <input checked="" type="checkbox"/> |
| MW-7     | 04/03/2023 | 17:37 | 6            | Groundwater |            | BD06615 | <input checked="" type="checkbox"/> |
| MW-6     | 04/04/2023 | 08:50 | 6            | Groundwater |            | BD06616 | <input checked="" type="checkbox"/> |
| FB-1     | 04/04/2023 | 09:20 | 5            | Field Blank |            | BD06617 | <input checked="" type="checkbox"/> |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |

|                 |   |                  |
|-----------------|---|------------------|
| Relinquished By | Received By   | Date/Time        |
|                 |   | 04/04/2023 10:27 |
|                 | Renee Jernigan  |                  |
|                 | <small>Digitally signed by Renee Jernigan<br/>Date: 2023.04.05 07:54:28 -05'00'</small> |                  |

|              |                |                |                  |
|--------------|----------------|----------------|------------------|
| SmarTroll ID | 7586-41445-5-4 | Cooler Temp    | 0.4 °C           |
| Turbidity ID | 4677-23343-4-2 | Thermometer ID | 10614-61208-2-1  |
| Sample Event | 1404           | pH Strip ID    | 10429-60252-10-8 |

Bottles/Pre-Preserved Bottles are provided by the GTL.  
Total Metals and Alkalinity are not performed on Dissolved Sets  
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

|                         |                            |            |                          |
|-------------------------|----------------------------|------------|--------------------------|
| Requested Complete Date | Routine                    | Results To | Dustin Brooks, Greg Dyer |
|                         | Collector: Anthony Goggins |            | Requested By: Greg Dyer  |
|                         |                            | Location   | Barry Ash Pond           |

|         |   |                  |        |   |                       |        |   |                |        |   |     |     |
|---------|---|------------------|--------|---|-----------------------|--------|---|----------------|--------|---|-----|-----|
| Bottles | 1 | Metals           | 500 mL | 3 | Hg                    | 250 mL | 5 | TDS/Alkalinity | 500 mL | 7 | N/A | N/A |
|         | 2 | Dissolved Metals | 500 mL | 4 | Nitrite, Nitrate; TOC | 250 mL | 6 | Anions         | 500 mL | 8 | N/A | N/A |

Comments: Relinquish to shipping room at 1447. GFH 04/04/23

| Sample #   | Date       | Time  | Bottle Count | Description      | Lab Filter | Lab Id  | pH Check                            |
|------------|------------|-------|--------------|------------------|------------|---------|-------------------------------------|
| MW-15      | 04/03/2023 | 09:12 | 6            | Groundwater      |            | BD06604 | <input checked="" type="checkbox"/> |
| EB-1       | 04/03/2023 | 09:40 | 5            | Equipment Blank  |            | BD06605 | <input checked="" type="checkbox"/> |
| MW-24H     | 04/03/2023 | 11:48 | 6            | Groundwater      |            | BD06606 | <input checked="" type="checkbox"/> |
| MW-24H Dup | 04/03/2023 | 11:48 | 6            | Sample Duplicate |            | BD06607 | <input checked="" type="checkbox"/> |
| MW-25H     | 04/03/2023 | 14:24 | 6            | Groundwater      |            | BD06608 | <input checked="" type="checkbox"/> |
| MW-25H Dup | 04/03/2023 | 14:24 | 6            | Sample Duplicate |            | BD06609 | <input checked="" type="checkbox"/> |
| MW-25V     | 04/03/2023 | 15:17 | 6            | Groundwater      |            | BD06610 | <input checked="" type="checkbox"/> |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |

|                 |   |                  |
|-----------------|---|------------------|
| Relinquished By | Received By   | Date/Time        |
|                 |   | 04/04/2023 10:26 |
|                 | Renee Jernigan<br>Digitally signed by Renee Jernigan<br>Date: 2023.04.05 07:53:57 -05'00' |                  |

|              |                |                |                  |
|--------------|----------------|----------------|------------------|
| SmarTroll ID | 7586-41446-5-5 | Cooler Temp    | 0.4 °C           |
| Turbidity ID | 9830-57039-1-1 | Thermometer ID | 10614-61208-2-1  |
| Sample Event | 1404           | pH Strip ID    | 10429-60252-10-8 |

Bottles/Pre-Preserved Bottles are provided by the GTL.  
 Total Metals and Alkalinity are not performed on Dissolved Sets  
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab



Lab ETA

|                         |                        |            |                          |
|-------------------------|------------------------|------------|--------------------------|
| Requested Complete Date | Routine                | Results To | Dustin Brooks, Greg Dyer |
|                         | Collector TJ Daugherty |            | Requested By             |
|                         |                        | Location   | Barry Ash Pond           |

|         |   |                  |        |   |                       |        |   |                |        |   |     |     |
|---------|---|------------------|--------|---|-----------------------|--------|---|----------------|--------|---|-----|-----|
| Bottles | 1 | Metals           | 500 mL | 3 | Hg                    | 250 mL | 5 | TDS/Alkalinity | 500 mL | 7 | N/A | N/A |
|         | 2 | Dissolved Metals | 500 mL | 4 | Nitrite, Nitrate; TOC | 250 mL | 6 | Anions         | 500 mL | 8 | N/A | N/A |

Comments

| Sample #   | Date       | Time  | Bottle Count | Description      | Lab Filter | Lab Id  | pH Check                            |
|------------|------------|-------|--------------|------------------|------------|---------|-------------------------------------|
| MW-11      | 04/04/2023 | 11:25 | 6            | Groundwater      |            | BD06775 | <input checked="" type="checkbox"/> |
| MW-12V     | 04/04/2023 | 12:35 | 6            | Groundwater      |            | BD06776 | <input checked="" type="checkbox"/> |
| MW-12V Dup | 04/04/2023 | 12:35 | 6            | Sample Duplicate |            | BD06777 | <input checked="" type="checkbox"/> |
| MW-12      | 04/04/2023 | 13:45 | 6            | Groundwater      |            | BD06778 | <input checked="" type="checkbox"/> |
| MW-13      | 04/04/2023 | 15:05 | 6            | Groundwater      |            | BD06779 | <input checked="" type="checkbox"/> |
| MW-13V     | 04/04/2023 | 15:50 | 6            | Groundwater      |            | BD06780 | <input checked="" type="checkbox"/> |
| FB-2       | 04/04/2023 | 16:20 | 5            | Field Blank      |            | BD06781 | <input checked="" type="checkbox"/> |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |

|   |  |                  |
|---|--|------------------|
| Relinquished By   | Received By  | Date/Time        |
|  |  | 04/05/2023 13:31 |
|   |  |                  |
|   |  |                  |

|              |                |                |                  |
|--------------|----------------|----------------|------------------|
| SmarTroll ID | 7586-41445-5-4 | Cooler Temp    | 0.3 °C           |
| Turbidity ID | 4677-23343-4-2 | Thermometer ID | 10614-61208-2-1  |
| Sample Event | 1404           | pH Strip ID    | 10620-61242-10-8 |

Bottles/Pre-Preserved Bottles are provided by the GTL.  
Total Metals and Alkalinity are not performed on Dissolved Sets  
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

|                         |                          |            |                          |
|-------------------------|--------------------------|------------|--------------------------|
| Requested Complete Date | Routine                  | Results To | Dustin Brooks, Greg Dyer |
|                         | Collector: Dallas Gentry |            | Requested By: Greg Dyer  |
|                         |                          | Location   | Barry Ash Pond           |

|         |   |                  |        |   |                       |        |   |                |        |   |     |     |
|---------|---|------------------|--------|---|-----------------------|--------|---|----------------|--------|---|-----|-----|
| Bottles | 1 | Metals           | 500 mL | 3 | Hg                    | 250 mL | 5 | TDS/Alkalinity | 500 mL | 7 | N/A | N/A |
|         | 2 | Dissolved Metals | 500 mL | 4 | Nitrite, Nitrate; TOC | 250 mL | 6 | Anions         | 500 mL | 8 | N/A | N/A |

Comments

| Sample # | Date       | Time  | Bottle Count | Description | Lab Filter | Lab Id  | pH Check                            |
|----------|------------|-------|--------------|-------------|------------|---------|-------------------------------------|
| MW-5V    | 04/04/2023 | 11:11 | 6            | Groundwater |            | BD06832 | <input checked="" type="checkbox"/> |
| MW-5     | 04/04/2023 | 12:02 | 6            | Groundwater |            | BD06833 | <input checked="" type="checkbox"/> |
| MW-4     | 04/04/2023 | 13:01 | 6            | Groundwater |            | BD06834 | <input checked="" type="checkbox"/> |
| MW-3     | 04/04/2023 | 14:14 | 6            | Groundwater |            | BD06835 | <input checked="" type="checkbox"/> |
| MW-1V    | 04/04/2023 | 15:12 | 6            | Groundwater |            | BD06836 | <input checked="" type="checkbox"/> |
| MW-16V   | 04/04/2023 | 16:31 | 6            | Groundwater |            | BD06837 | <input checked="" type="checkbox"/> |
| MW-18H   | 04/05/2023 | 09:23 | 6            | Groundwater |            | BD06838 | <input checked="" type="checkbox"/> |
| MW-14    | 04/05/2023 | 11:35 | 6            | Groundwater |            | BD06839 | <input checked="" type="checkbox"/> |
| FB-4     | 04/05/2023 | 12:30 | 5            | Field Blank |            | BD06840 | <input checked="" type="checkbox"/> |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |

|                  |             |                  |
|------------------|-------------|------------------|
| Relinquished By  | Received By | Date/Time        |
| <i>M. Gentry</i> | <i>Rand</i> | 04/06/2023 10:51 |
|                  |             |                  |
|                  |             |                  |

|              |                |                |                  |
|--------------|----------------|----------------|------------------|
| SmarTroll ID | 7586-41443-5-2 | Cooler Temp    | 0.3 °C           |
| Turbidity ID | 9901-57263-1-1 | Thermometer ID | 10614-61208-2-1  |
| Sample Event | 1404           | pH Strip ID    | 10620-61242-10-8 |

Bottles/Pre-Preserved Bottles are provided by the GTL.  
 Total Metals and Alkalinity are not performed on Dissolved Sets  
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks





# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

|                         |                 |              |                          |
|-------------------------|-----------------|--------------|--------------------------|
| Requested Complete Date | Routine         | Results To   | Dustin Brooks, Greg Dyer |
| Collector               | Anthony Goggins | Requested By | Greg Dyer                |
|                         |                 | Location     | Barry Ash Pond           |

|         |   |                  |        |   |                       |        |   |                |        |   |     |     |
|---------|---|------------------|--------|---|-----------------------|--------|---|----------------|--------|---|-----|-----|
| Bottles | 1 | Metals           | 500 mL | 3 | Hg                    | 250 mL | 5 | TDS/Alkalinity | 500 mL | 7 | N/A | N/A |
|         | 2 | Dissolved Metals | 500 mL | 4 | Nitrite, Nitrate; TOC | 250 mL | 6 | Anions         | 500 mL | 8 | N/A | N/A |

Comments

| Sample # | Date       | Time  | Bottle Count | Description | Lab Filter | Lab Id  | pH Check                            |
|----------|------------|-------|--------------|-------------|------------|---------|-------------------------------------|
| MW-23H   | 04/04/2023 | 11:15 | 6            | Groundwater |            | BD06826 | <input checked="" type="checkbox"/> |
| MW-23V   | 04/04/2023 | 11:55 | 6            | Groundwater |            | BD06827 | <input checked="" type="checkbox"/> |
| MW-17V   | 04/04/2023 | 12:50 | 6            | Groundwater |            | BD06828 | <input checked="" type="checkbox"/> |
| MW-17H   | 04/04/2023 | 13:36 | 6            | Groundwater |            | BD06829 | <input checked="" type="checkbox"/> |
| MW-14V   | 04/04/2023 | 15:05 | 6            | Groundwater |            | BD06830 | <input checked="" type="checkbox"/> |
| MW-16    | 04/05/2023 | 09:45 | 6            | Groundwater |            | BD06831 | <input checked="" type="checkbox"/> |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |

|                 |             |                  |
|-----------------|-------------|------------------|
| Relinquished By | Received By | Date/Time        |
|                 |             | 04/06/2023 10:51 |
|                 |             |                  |
|                 |             |                  |

|              |                |                |                  |
|--------------|----------------|----------------|------------------|
| SmarTroll ID | 7586-41446-5-5 | Cooler Temp    | 0.1 °C           |
| Turbidity ID | 9830-57039-1-1 | Thermometer ID | 10614-61208-2-1  |
| Sample Event | 1404           | pH Strip ID    | 10620-61242-10-8 |

Bottles/Pre-Preserved Bottles are provided by the GTL.  
 Total Metals and Alkalinity are not performed on Dissolved Sets  
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

|                         |                 |              |                          |
|-------------------------|-----------------|--------------|--------------------------|
| Requested Complete Date | Routine         | Results To   | Dustin Brooks, Greg Dyer |
| Collector               | Anthony Goggins | Requested By | Greg Dyer                |
|                         |                 | Location     | Barry Ash Pond           |

|         |   |                  |        |   |                       |        |   |                |        |   |     |     |
|---------|---|------------------|--------|---|-----------------------|--------|---|----------------|--------|---|-----|-----|
| Bottles | 1 | Metals           | 500 mL | 3 | Hg                    | 250 mL | 5 | TDS/Alkalinity | 500 mL | 7 | N/A | N/A |
|         | 2 | Dissolved Metals | 500 mL | 4 | Nitrite, Nitrate; TOC | 250 mL | 6 | Anions         | 500 mL | 8 | N/A | N/A |

Comments

| Sample # | Date       | Time  | Bottle Count | Description | Lab Filter | Lab Id  | pH Check                            |
|----------|------------|-------|--------------|-------------|------------|---------|-------------------------------------|
| MW-20V   | 04/24/2023 | 12:58 | 6            | Groundwater |            | BD08112 | <input checked="" type="checkbox"/> |
| MW-22H   | 04/24/2023 | 14:05 | 6            | Groundwater |            | BD08113 | <input checked="" type="checkbox"/> |
| MW-15V   | 04/24/2023 | 15:00 | 6            | Groundwater |            | BD08114 | <input checked="" type="checkbox"/> |
| MW-20H   | 04/24/2023 | 16:06 | 6            | Groundwater |            | BD08115 | <input checked="" type="checkbox"/> |
| MW-19H   | 04/24/2023 | 17:55 | 6            | Groundwater |            | BD08116 | <input checked="" type="checkbox"/> |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |

| Relinquished By        | Received By         | Date/Time        |
|------------------------|---------------------|------------------|
| <i>Anthony Goggins</i> | <i>Bushy Cotton</i> | 04/26/2023 08:57 |
|                        |                     |                  |
|                        |                     |                  |

|                |                  |
|----------------|------------------|
| SmarTroll ID   | 7586-41446-5-5   |
| Turbidity ID   | 9830-57039-1-1   |
| Sample Event   | 1404             |
| Cooler Temp    | 0.9 °C           |
| Thermometer ID | 10614-61208-2-1  |
| pH Strip ID    | 10429-60252-10-8 |

Bottles/Pre-Preserved Bottles are provided by the GTL.  
Total Metals and Alkalinity are not performed on Dissolved Sets  
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



**Chain of Custody**  
**Groundwater**  
APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

|                         |                            |            |                          |
|-------------------------|----------------------------|------------|--------------------------|
| Requested Complete Date | Routine                    | Results To | Dustin Brooks, Greg Dyer |
|                         | Collector: Anthony Goggins |            | Requested By             |
|                         |                            | 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/MSD @ MW-15  
Relinquish to shipping room at 1447. GFH 04/04/23

| Sample #   | Date       | Time  | Bottle Count | Description      | Lab Filter | Lab Id  | pH Check                            |
|------------|------------|-------|--------------|------------------|------------|---------|-------------------------------------|
| MW-15      | 04/03/2023 | 09:12 | 3            | Groundwater      |            | BD06624 | <input checked="" type="checkbox"/> |
| EB-1       | 04/03/2023 | 09:40 | 1            | Equipment Blank  |            | BD06625 | <input checked="" type="checkbox"/> |
| MW-24H     | 04/03/2023 | 11:48 | 1            | Groundwater      |            | BD06626 | <input checked="" type="checkbox"/> |
| MW-24H Dup | 04/03/2023 | 11:48 | 1            | Sample Duplicate |            | BD06627 | <input checked="" type="checkbox"/> |
| MW-25H     | 04/03/2023 | 14:24 | 1            | Groundwater      |            | BD06628 | <input checked="" type="checkbox"/> |
| MW-25H Dup | 04/03/2023 | 14:24 | 1            | Sample Duplicate |            | BD06629 | <input checked="" type="checkbox"/> |
| MW-25V     | 04/03/2023 | 15:17 | 1            | Groundwater      |            | BD06630 | <input checked="" type="checkbox"/> |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |

|                 |   |                  |
|-----------------|---|------------------|
| Relinquished By | Received By   | Date/Time        |
|                 |   | 04/04/2023 10:27 |
|                 | Renee Jernigan<br><small>Digitally signed by Renee Jernigan<br/>Date: 2023.04.05 07:54:51 -05'00'</small> |                  |
|                 |   |                  |

|              |                |                |                  |
|--------------|----------------|----------------|------------------|
| SmarTroll ID | 7586-41446-5-5 | Cooler Temp    | N/A              |
| Turbidity ID | 9830-57039-1-1 | Thermometer ID | N/A              |
| Sample Event | 1404           | pH Strip ID    | 10429-60252-10-8 |

Bottles/Pre-Preserved Bottles are provided by the GTL.  
Total Metals and Alkalinity are not performed on Dissolved Sets  
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

|                         |           |            |                          |
|-------------------------|-----------|------------|--------------------------|
| Requested Complete Date | Routine   | Results To | Dustin Brooks, Greg Dyer |
|                         | Collector |            | Dallas Gentry            |
|                         |           | Location   | 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-8  
 Relinquish to shipping room at 1447. GFH 04/04/23

| Sample # | Date       | Time  | Bottle Count | Description      | Lab Filter | Lab Id  | pH Check                            |
|----------|------------|-------|--------------|------------------|------------|---------|-------------------------------------|
| MW-8     | 04/03/2023 | 09:42 | 3            | Groundwater      |            | BD06638 | <input checked="" type="checkbox"/> |
| MW-10    | 04/03/2023 | 12:42 | 1            | Groundwater      |            | BD06639 | <input checked="" type="checkbox"/> |
| MW-8V    | 04/03/2023 | 15:40 | 1            | Groundwater      |            | BD06640 | <input checked="" type="checkbox"/> |
| MW-9     | 04/04/2023 | 08:47 | 1            | Groundwater      |            | BD06641 | <input checked="" type="checkbox"/> |
| MW-9 dup | 04/04/2023 | 08:47 | 1            | Sample Duplicate |            | BD06642 | <input checked="" type="checkbox"/> |
| FB-3     | 04/04/2023 | 09:20 | 1            | Field Blank      |            | BD06643 | <input checked="" type="checkbox"/> |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |
|          |            |       |              |                  |            |         | <input type="checkbox"/>            |

|                 |  |                  |
|-----------------|--|------------------|
| Relinquished By | Received By  | Date/Time        |
|                 |  | 04/04/2023 10:29 |
|                 | Renee Jernigan Digitally signed by Renee Jernigan<br>Date: 2023.04.05 07:55:13 -05'00' |                  |

|              |                |                |                  |
|--------------|----------------|----------------|------------------|
| SmarTroll ID | 7586-41443-5-2 | Cooler Temp    | N/A              |
| Turbidity ID | 9901-57263-1-1 | Thermometer ID | N/A              |
| Sample Event | 1404           | pH Strip ID    | 10429-60252-10-8 |

Bottles/Pre-Preserved Bottles are provided by the GTL.  
 Total Metals and Alkalinity are not performed on Dissolved Sets  
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

|                         |           |            |                          |
|-------------------------|-----------|------------|--------------------------|
| Requested Complete Date | Routine   | Results To | Dustin Brooks, Greg Dyer |
|                         | Collector |            | TJ Daugherty             |
|                         |           | Location   | Barry Ash Pond           |

| Bottles | 1      | 2   | 3   | 4   | 5   | 6   | 7   | 8   |
|---------|--------|-----|-----|-----|-----|-----|-----|-----|
|         | Radium | 1 L | N/A | N/A | N/A | N/A | N/A | N/A |
|         | N/A    | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Comments: Relinquish to shipping room at 1447. GFH 04/04/23

| Sample # | Date       | Time  | Bottle Count | Description | Lab Filter | Lab Id  | pH Check                            |
|----------|------------|-------|--------------|-------------|------------|---------|-------------------------------------|
| MW-1     | 04/03/2023 | 08:50 | 1            | Groundwater |            | BD06631 | <input checked="" type="checkbox"/> |
| MW-2     | 04/03/2023 | 11:23 | 1            | Groundwater |            | BD06632 | <input checked="" type="checkbox"/> |
| MW-10V   | 04/03/2023 | 15:16 | 1            | Groundwater |            | BD06633 | <input checked="" type="checkbox"/> |
| MW-7V    | 04/03/2023 | 16:40 | 1            | Groundwater |            | BD06634 | <input checked="" type="checkbox"/> |
| MW-7     | 04/03/2023 | 17:37 | 1            | Groundwater |            | BD06635 | <input checked="" type="checkbox"/> |
| MW-6     | 04/04/2023 | 08:50 | 1            | Groundwater |            | BD06636 | <input checked="" type="checkbox"/> |
| FB-1     | 04/04/2023 | 09:20 | 1            | Field Blank |            | BD06637 | <input checked="" type="checkbox"/> |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |

| Relinquished By | Received By   | Date/Time        |
|-----------------|---|------------------|
|                 |   | 04/04/2023 10:27 |
|                 | Renee Jernigan<br>Digitally signed by Renee Jernigan<br>Date: 2023.04.05 07:55:02 -05'00' |                  |
|                 |   |                  |

|              |                |                |                  |
|--------------|----------------|----------------|------------------|
| SmarTroll ID | 7586-41445-5-4 | Cooler Temp    | N/A              |
| Turbidity ID | 4677-23343-4-2 | Thermometer ID | N/A              |
| Sample Event | 1404           | pH Strip ID    | 10429-60252-10-8 |

Bottles/Pre-Preserved Bottles are provided by the GTL. Total Metals and Alkalinity are not performed on Dissolved Sets. Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

|                         |                         |            |                          |
|-------------------------|-------------------------|------------|--------------------------|
| Requested Complete Date | Routine                 | Results To | Dustin Brooks, Greg Dyer |
|                         | Collector: TJ Daugherty |            | Requested By             |
|                         |                         | Location   | 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-12

| Sample #   | Date       | Time  | Bottle Count | Description      | Lab Filter | Lab Id  | pH Check                            |
|------------|------------|-------|--------------|------------------|------------|---------|-------------------------------------|
| MW-11      | 04/04/2023 | 11:25 | 1            | Groundwater      |            | BD06782 | <input checked="" type="checkbox"/> |
| MW-12V     | 04/04/2023 | 12:35 | 1            | Groundwater      |            | BD06783 | <input checked="" type="checkbox"/> |
| MW-12V Dup | 04/04/2023 | 12:35 | 1            | Sample Duplicate |            | BD06784 | <input checked="" type="checkbox"/> |
| MW-12      | 04/04/2023 | 13:45 | 3            | Groundwater      |            | BD06785 | <input checked="" type="checkbox"/> |
| MW-13      | 04/04/2023 | 15:05 | 1            | Groundwater      |            | BD06786 | <input checked="" type="checkbox"/> |
| MW-13V     | 04/04/2023 | 15:50 | 1            | Groundwater      |            | BD06787 | <input checked="" type="checkbox"/> |
| FB-2       | 04/04/2023 | 16:20 | 1            | Field Blank      |            | BD06788 | <input checked="" type="checkbox"/> |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |
|            |            |       |              |                  |            |         | <input type="checkbox"/>            |

|                 |             |                  |
|-----------------|-------------|------------------|
| Relinquished By | Received By | Date/Time        |
|                 |             | 04/05/2023 13:31 |
|                 |             |                  |
|                 |             |                  |

|              |                |                |                  |
|--------------|----------------|----------------|------------------|
| SmarTroll ID | 7586-41445-5-4 | Cooler Temp    | NA               |
| Turbidity ID | 4677-23343-4-2 | Thermometer ID | NA               |
| Sample Event | 1404           | pH Strip ID    | 10620-61242-10-8 |

Bottles/Pre-Preserved Bottles are provided by the GTL.  
Total Metals and Alkalinity are not performed on Dissolved Sets  
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

|                         |                          |            |                          |
|-------------------------|--------------------------|------------|--------------------------|
| Requested Complete Date | Routine                  | Results To | Dustin Brooks, Greg Dyer |
|                         | Collector: Dallas Gentry |            | Requested By: Greg Dyer  |
|                         |                          | Location   | 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  | pH Check                            |
|----------|------------|-------|--------------|-------------|------------|---------|-------------------------------------|
| MW-5V    | 04/04/2023 | 11:11 | 1            | Groundwater |            | BD06847 | <input checked="" type="checkbox"/> |
| MW-5     | 04/04/2023 | 12:02 | 1            | Groundwater |            | BD06848 | <input checked="" type="checkbox"/> |
| MW-4     | 04/04/2023 | 13:01 | 1            | Groundwater |            | BD06849 | <input checked="" type="checkbox"/> |
| MW-3     | 04/04/2023 | 14:14 | 1            | Groundwater |            | BD06850 | <input checked="" type="checkbox"/> |
| MW-1V    | 04/04/2023 | 15:12 | 1            | Groundwater |            | BD06851 | <input checked="" type="checkbox"/> |
| MW-16V   | 04/04/2023 | 16:31 | 1            | Groundwater |            | BD06852 | <input checked="" type="checkbox"/> |
| MW-18H   | 04/05/2023 | 09:23 | 1            | Groundwater |            | BD06853 | <input checked="" type="checkbox"/> |
| MW-14    | 04/05/2023 | 11:35 | 1            | Groundwater |            | BD06854 | <input checked="" type="checkbox"/> |
| FB-4     | 04/05/2023 | 12:30 | 1            | Field Blank |            | BD06855 | <input checked="" type="checkbox"/> |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |

|                    |                    |                  |
|--------------------|--------------------|------------------|
| Relinquished By    | Received By        | Date/Time        |
| <i>[Signature]</i> | <i>[Signature]</i> | 04/06/2023 10:51 |
|                    |                    |                  |
|                    |                    |                  |

|              |                |                |                  |
|--------------|----------------|----------------|------------------|
| SmarTroll ID | 7586-41443-5-2 | Cooler Temp    | NA               |
| Turbidity ID | 9901-57263-1-1 | Thermometer ID | NA               |
| Sample Event | 1404           | pH Strip ID    | 10620-61242-10-8 |

Bottles/Pre-Preserved Bottles are provided by the GTL.  
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 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

|                         |                            |            |                          |
|-------------------------|----------------------------|------------|--------------------------|
| Requested Complete Date | Routine                    | Results To | Dustin Brooks, Greg Dyer |
|                         | Collector: Anthony Goggins |            | Requested By: Greg Dyer  |
|                         |                            | Location   | 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        | 4 N/A | N/A | 6 N/A | N/A | 8 N/A | N/A |

Comments

| Sample # | Date       | Time  | Bottle Count | Description | Lab Filter | Lab Id  | pH Check                            |
|----------|------------|-------|--------------|-------------|------------|---------|-------------------------------------|
| MW-23H   | 04/04/2023 | 11:15 | 1            | Groundwater |            | BD06841 | <input checked="" type="checkbox"/> |
| MW-23V   | 04/04/2023 | 11:55 | 1            | Groundwater |            | BD06842 | <input checked="" type="checkbox"/> |
| MW-17V   | 04/04/2023 | 12:50 | 1            | Groundwater |            | BD06843 | <input checked="" type="checkbox"/> |
| MW-17H   | 04/04/2023 | 13:36 | 1            | Groundwater |            | BD06844 | <input checked="" type="checkbox"/> |
| MW-14V   | 04/04/2023 | 15:05 | 1            | Groundwater |            | BD06845 | <input checked="" type="checkbox"/> |
| MW-16    | 04/05/2023 | 09:45 | 1            | Groundwater |            | BD06846 | <input checked="" type="checkbox"/> |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |

|                        |                  |                  |
|------------------------|------------------|------------------|
| Relinquished By        | Received By      | Date/Time        |
| <i>Anthony Goggins</i> | <i>Greg Dyer</i> | 04/06/2023 10:51 |
|                        |                  |                  |
|                        |                  |                  |

|              |                |                |                  |
|--------------|----------------|----------------|------------------|
| SmarTroll ID | 7586-41446-5-5 | Cooler Temp    | NA               |
| Turbidity ID | 9830-57039-1-1 | Thermometer ID | NA               |
| Sample Event | 1404           | pH Strip ID    | 10620-61242-10-8 |

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# 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  | pH Check                            |
|----------|------------|-------|--------------|-------------|------------|---------|-------------------------------------|
| MW-20V   | 04/24/2023 | 12:58 | 1            | Groundwater |            | BD08117 | <input checked="" type="checkbox"/> |
| MW-22H   | 04/24/2023 | 14:05 | 1            | Groundwater |            | BD08118 | <input checked="" type="checkbox"/> |
| MW-15V   | 04/24/2023 | 15:00 | 1            | Groundwater |            | BD08119 | <input checked="" type="checkbox"/> |
| MW-20H   | 04/24/2023 | 16:06 | 1            | Groundwater |            | BD08120 | <input checked="" type="checkbox"/> |
| MW-19H   | 04/24/2023 | 17:55 | 1            | Groundwater |            | BD08121 | <input checked="" type="checkbox"/> |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |
|          |            |       |              |             |            |         | <input type="checkbox"/>            |

|                        |                      |                  |
|------------------------|----------------------|------------------|
| Relinquished By        | Received By          | Date/Time        |
| <i>Anthony Goggins</i> | <i>Dustin Brooks</i> | 04/26/2023 08:56 |
|                        |                      |                  |
|                        |                      |                  |

|              |                |                |                  |
|--------------|----------------|----------------|------------------|
| SmarTroll ID | 7586-41446-5-5 | Cooler Temp    | N/A              |
| Turbidity ID | 9830-57039-1-1 | Thermometer ID | N/A              |
| Sample Event | 1404           | pH Strip ID    | 10429-60252-10-8 |

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May 19, 2023

Brooke Caton  
Alabama Power  
744 Highway 87  
Calera, AL 35040

RE: Project: WMWBARPU\_1406  
Pace Project No.: 30580824

Dear Brooke Caton:

Enclosed are the analytical results for sample(s) received by the laboratory on April 20, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

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

Sincerely,



Skyler C. Richmond  
skyler.richmond@pacelabs.com  
(724)850-5600  
Project Manager

Enclosures

cc: Blaine Denton, Alabama Power  
Renee Jernigan, Alabama Power



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: WMWBARPU\_1406  
Pace Project No.: 30580824

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### **Pace Analytical Services Pennsylvania**

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601  
ANAB DOD-ELAP Rad Accreditation #: L2417  
Alabama Certification #: 41590  
Arizona Certification #: AZ0734  
Arkansas Certification  
California Certification #: 04222CA  
Colorado Certification #: PA01547  
Connecticut Certification #: PH-0694  
Delaware Certification  
EPA Region 4 DW Rad  
Florida/TNI Certification #: E87683  
Georgia Certification #: C040  
Florida: Cert E871149 SEKS WET  
Guam Certification  
Hawaii Certification  
Idaho Certification  
Illinois Certification  
Indiana Certification  
Iowa Certification #: 391  
Kansas/TNI Certification #: E-10358  
Kentucky Certification #: KY90133  
KY WW Permit #: KY0098221  
KY WW Permit #: KY0000221  
Louisiana DHH/TNI Certification #: LA180012  
Louisiana DEQ/TNI Certification #: 4086  
Maine Certification #: 2017020  
Maryland Certification #: 308  
Massachusetts Certification #: M-PA1457  
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235  
Montana Certification #: Cert0082  
Nebraska Certification #: NE-OS-29-14  
Nevada Certification #: PA014572018-1  
New Hampshire/TNI Certification #: 297617  
New Jersey/TNI Certification #: PA051  
New Mexico Certification #: PA01457  
New York/TNI Certification #: 10888  
North Carolina Certification #: 42706  
North Dakota Certification #: R-190  
Ohio EPA Rad Approval: #41249  
Oregon/TNI Certification #: PA200002-010  
Pennsylvania/TNI Certification #: 65-00282  
Puerto Rico Certification #: PA01457  
Rhode Island Certification #: 65-00282  
South Dakota Certification  
Tennessee Certification #: 02867  
Texas/TNI Certification #: T104704188-17-3  
Utah/TNI Certification #: PA014572017-9  
USDA Soil Permit #: P330-17-00091  
Vermont Dept. of Health: ID# VT-0282  
Virgin Island/PADEP Certification  
Virginia/VELAP Certification #: 460198  
Washington Certification #: C868  
West Virginia DEP Certification #: 143  
West Virginia DHHR Certification #: 9964C  
Wisconsin Approve List for Rad  
Wyoming Certification #: 8TMS-L

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: WMWBARPU\_1406  
Pace Project No.: 30580824

| Lab ID      | Sample ID        | Matrix | Date Collected | Date Received  |
|-------------|------------------|--------|----------------|----------------|
| 30580824001 | BD07418 MW-4     | Water  | 04/12/23 09:51 | 04/20/23 10:15 |
| 30580824002 | BD07419 MW-4 Dup | Water  | 04/12/23 09:51 | 04/20/23 10:15 |
| 30580824003 | BD07420 MW-3     | Water  | 04/12/23 11:05 | 04/20/23 10:15 |
| 30580824004 | BD07420 MW-3 MS  | Water  | 04/12/23 11:05 | 04/20/23 10:15 |
| 30580824005 | BD07420 MW-3 MSD | Water  | 04/12/23 11:05 | 04/20/23 10:15 |
| 30580824006 | BD07421 MW-2     | Water  | 04/12/23 12:10 | 04/20/23 10:15 |
| 30580824007 | BD07422 MW-1     | Water  | 04/12/23 13:05 | 04/20/23 10:15 |
| 30580824008 | BD07423 FB-1     | Water  | 04/12/23 13:35 | 04/20/23 10:15 |
| 30580824009 | BD07424 EB-1     | Water  | 04/12/23 13:45 | 04/20/23 10:15 |

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: WMWBARPU\_1406  
Pace Project No.: 30580824

| Lab ID      | Sample ID        | Method                   | Analysts | Analytes Reported | Laboratory |
|-------------|------------------|--------------------------|----------|-------------------|------------|
| 30580824001 | BD07418 MW-4     | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                  | EPA 9320                 | ZPC      | 1                 | PASI-PA    |
|             |                  | Total Radium Calculation | LAL      | 1                 | PASI-PA    |
| 30580824002 | BD07419 MW-4 Dup | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                  | EPA 9320                 | ZPC      | 1                 | PASI-PA    |
|             |                  | Total Radium Calculation | LAL      | 1                 | PASI-PA    |
| 30580824003 | BD07420 MW-3     | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                  | EPA 9320                 | ZPC      | 1                 | PASI-PA    |
|             |                  | Total Radium Calculation | LAL      | 1                 | PASI-PA    |
| 30580824004 | BD07420 MW-3 MS  | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                  | EPA 9320                 | ZPC      | 1                 | PASI-PA    |
| 30580824005 | BD07420 MW-3 MSD | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                  | EPA 9320                 | ZPC      | 1                 | PASI-PA    |
| 30580824006 | BD07421 MW-2     | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                  | EPA 9320                 | ZPC      | 1                 | PASI-PA    |
|             |                  | Total Radium Calculation | LAL      | 1                 | PASI-PA    |
| 30580824007 | BD07422 MW-1     | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                  | EPA 9320                 | ZPC      | 1                 | PASI-PA    |
|             |                  | Total Radium Calculation | LAL      | 1                 | PASI-PA    |
| 30580824008 | BD07423 FB-1     | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                  | EPA 9320                 | ZPC      | 1                 | PASI-PA    |
|             |                  | Total Radium Calculation | LAL      | 1                 | PASI-PA    |
| 30580824009 | BD07424 EB-1     | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                  | EPA 9320                 | ZPC      | 1                 | PASI-PA    |
|             |                  | Total Radium Calculation | LAL      | 1                 | PASI-PA    |

PASI-PA = Pace Analytical Services - Greensburg

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: WMWBARPU\_1406  
Pace Project No.: 30580824

---

**Method:** EPA 9315  
**Description:** 9315 Total Radium  
**Client:** Alabama Power  
**Date:** May 19, 2023

**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: WMWBARPU\_1406  
Pace Project No.: 30580824

---

**Method:** EPA 9320  
**Description:** 9320 Radium 228  
**Client:** Alabama Power  
**Date:** May 19, 2023

**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: WMWBARPU\_1406  
Pace Project No.: 30580824

---

**Method:** Total Radium Calculation  
**Description:** Total Radium 228+226  
**Client:** Alabama Power  
**Date:** May 19, 2023

**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: WMWBARPU\_1406

Pace Project No.: 30580824

**Sample: BD07418 MW-4**      **Lab ID: 30580824001**      Collected: 04/12/23 09:51      Received: 04/20/23 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                              | <b>0.629 ± 0.299 (0.343)</b><br><b>C:96% T:NA</b>   | pCi/L | 05/17/23 14:26 | 13982-63-3 |      |
|              | Pace Analytical Services - Greensburg |   |       |                |            |      |
| Radium-228   | EPA 9320                              | <b>0.543U ± 0.369 (0.695)</b><br><b>C:72% T:86%</b> | pCi/L | 05/09/23 15:02 | 15262-20-1 |      |
|              | Pace Analytical Services - Greensburg |   |       |                |            |      |
| Total Radium | Total Radium Calculation              | <b>1.17 ± 0.668 (1.04)</b>                          | pCi/L | 05/18/23 12:06 | 7440-14-4  |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARPU\_1406

Pace Project No.: 30580824

**Sample: BD07419 MW-4 Dup**      **Lab ID: 30580824002**      Collected: 04/12/23 09:51      Received: 04/20/23 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                 | <b>0.524 ± 0.275 (0.361)</b><br><b>C:95% T:NA</b> | pCi/L | 05/17/23 14:26 | 13982-63-3 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Radium-228                            | EPA 9320                 | <b>1.03 ± 0.416 (0.643)</b><br><b>C:79% T:91%</b> | pCi/L | 05/09/23 15:02 | 15262-20-1 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Total Radium                          | Total Radium Calculation | <b>1.55 ± 0.691 (1.00)</b>                        | pCi/L | 05/18/23 12:06 | 7440-14-4  |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARPU\_1406

Pace Project No.: 30580824

**Sample: BD07420 MW-3**      **Lab ID: 30580824003**      Collected: 04/12/23 11:05      Received: 04/20/23 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                 | <b>0.656 ± 0.311 (0.376)</b><br><b>C:96% T:NA</b>   | pCi/L | 05/17/23 14:26 | 13982-63-3 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Radium-228                            | EPA 9320                 | <b>0.625U ± 0.359 (0.656)</b><br><b>C:80% T:94%</b> | pCi/L | 05/09/23 15:02 | 15262-20-1 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Total Radium                          | Total Radium Calculation | <b>1.28 ± 0.670 (1.03)</b>                          | pCi/L | 05/18/23 12:06 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARPU\_1406

Pace Project No.: 30580824

**Sample: BD07420 MW-3 MS**      **Lab ID: 30580824004**      Collected: 04/12/23 11:05      Received: 04/20/23 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                              | <b>115.16 %REC ± NA (NA)</b><br><b>C:NA T:NA</b> | pCi/L | 05/17/23 14:26 | 13982-63-3 |      |
|            | Pace Analytical Services - Greensburg |  |       |                |            |      |
| Radium-228 | EPA 9320                              | <b>70.62 %REC ± NA (NA)</b><br><b>C:NA T:NA</b>  | pCi/L | 05/09/23 15:02 | 15262-20-1 |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARPU\_1406

Pace Project No.: 30580824

**Sample: BD07420 MW-3 MSD**      **Lab ID: 30580824005**      Collected: 04/12/23 11:05      Received: 04/20/23 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 | <b>107.99 %REC 6.43RPD ±</b><br><b>NA (NA)</b><br><b>C:NA T:NA</b> | pCi/L | 05/17/23 14:26 | 13982-63-3 |      |
| Pace Analytical Services - Greensburg |          |  |       |                |            |      |
| Radium-228                            | EPA 9320 | <b>81.12 %REC 13.85RPD ±</b><br><b>NA (NA)</b><br><b>C:NA T:NA</b> | pCi/L | 05/09/23 15:03 | 15262-20-1 |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARPU\_1406

Pace Project No.: 30580824

**Sample: BD07421 MW-2**      **Lab ID: 30580824006**      Collected: 04/12/23 12:10      Received: 04/20/23 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                              | <b>0.626 ± 0.316 (0.415)</b><br><b>C:91% T:NA</b>   | pCi/L | 05/17/23 14:26 | 13982-63-3 |      |
|              | Pace Analytical Services - Greensburg |   |       |                |            |      |
| Radium-228   | EPA 9320                              | <b>0.443U ± 0.311 (0.597)</b><br><b>C:81% T:98%</b> | pCi/L | 05/09/23 15:03 | 15262-20-1 |      |
|              | Pace Analytical Services - Greensburg |   |       |                |            |      |
| Total Radium | Total Radium Calculation              | <b>1.07 ± 0.627 (1.01)</b>                          | pCi/L | 05/18/23 12:06 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARPU\_1406

Pace Project No.: 30580824

**Sample: BD07422 MW-1**      **Lab ID: 30580824007**      Collected: 04/12/23 13:05      Received: 04/20/23 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                              | <b>0.587 ± 0.322 (0.497)</b><br><b>C:93% T:NA</b>   | pCi/L | 05/17/23 14:26 | 13982-63-3 |      |
|              | Pace Analytical Services - Greensburg |   |       |                |            |      |
| Radium-228   | EPA 9320                              | <b>0.443U ± 0.363 (0.722)</b><br><b>C:76% T:85%</b> | pCi/L | 05/09/23 15:03 | 15262-20-1 |      |
|              | Pace Analytical Services - Greensburg |   |       |                |            |      |
| Total Radium | Total Radium Calculation              | <b>1.03U ± 0.685 (1.22)</b>                         | pCi/L | 05/18/23 12:06 | 7440-14-4  |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARPU\_1406

Pace Project No.: 30580824

**Sample: BD07423 FB-1**      **Lab ID: 30580824008**      Collected: 04/12/23 13:35      Received: 04/20/23 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                 | <b>0.118U ± 0.176 (0.381)</b><br><b>C:92% T:NA</b>  | pCi/L | 05/17/23 14:26 | 13982-63-3 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Radium-228                            | EPA 9320                 | <b>0.321U ± 0.267 (0.523)</b><br><b>C:79% T:92%</b> | pCi/L | 05/09/23 15:03 | 15262-20-1 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Total Radium                          | Total Radium Calculation | <b>0.439U ± 0.443 (0.904)</b>                       | pCi/L | 05/18/23 12:06 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARPU\_1406

Pace Project No.: 30580824

**Sample: BD07424 EB-1**      **Lab ID: 30580824009**      Collected: 04/12/23 13:45      Received: 04/20/23 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                 | <b>0.306U ± 0.235 (0.400)</b><br><b>C:96% T:NA</b> | pCi/L | 05/17/23 14:26 | 13982-63-3 |      |
| Pace Analytical Services - Greensburg |                          |  |       |                |            |      |
| Radium-228                            | EPA 9320                 | <b>0.638 ± 0.350 (0.617)</b><br><b>C:81% T:88%</b> | pCi/L | 05/09/23 15:03 | 15262-20-1 |      |
| Pace Analytical Services - Greensburg |                          |  |       |                |            |      |
| Total Radium                          | Total Radium Calculation | <b>0.944U ± 0.585 (1.02)</b>                       | pCi/L | 05/18/23 12:06 | 7440-14-4  |      |

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWBARPU\_1406

Pace Project No.: 30580824

QC Batch: 582723

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30580824001, 30580824002, 30580824003, 30580824004, 30580824005, 30580824006, 30580824007, 30580824008, 30580824009

METHOD BLANK: 2829969

Matrix: Water

Associated Lab Samples: 30580824001, 30580824002, 30580824003, 30580824004, 30580824005, 30580824006, 30580824007, 30580824008, 30580824009

| Parameter  | Act ± Unc (MDC) Carr Trac         | Units | Analyzed       | Qualifiers |
|------------|-----------------------------------|-------|----------------|------------|
| Radium-228 | 0.978 ± 0.391 (0.591) C:78% T:92% | pCi/L | 05/09/23 11:59 |            |

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: WMWBARPU\_1406

Pace Project No.: 30580824

QC Batch: 583035

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30580824001, 30580824002, 30580824003, 30580824004, 30580824005, 30580824006, 30580824007, 30580824008, 30580824009

METHOD BLANK: 2831530

Matrix: Water

Associated Lab Samples: 30580824001, 30580824002, 30580824003, 30580824004, 30580824005, 30580824006, 30580824007, 30580824008, 30580824009

| Parameter  | Act ± Unc (MDC) Carr Trac        | Units | Analyzed       | Qualifiers |
|------------|----------------------------------|-------|----------------|------------|
| Radium-226 | 0.208 ± 0.117 (0.172) C:98% T:NA | pCi/L | 05/17/23 14:20 |            |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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## QUALIFIERS

Project: WMWBARPU\_1406  
Pace Project No.: 30580824

---

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWBARPU\_1406

Pace Project No.: 30580824

| Lab ID      | Sample ID        | QC Batch Method          | QC Batch | Analytical Method | Analytical Batch |
|-------------|------------------|--------------------------|----------|-------------------|------------------|
| 30580824001 | BD07418 MW-4     | EPA 9315                 | 583035   |                   |                  |
| 30580824002 | BD07419 MW-4 Dup | EPA 9315                 | 583035   |                   |                  |
| 30580824003 | BD07420 MW-3     | EPA 9315                 | 583035   |                   |                  |
| 30580824004 | BD07420 MW-3 MS  | EPA 9315                 | 583035   |                   |                  |
| 30580824005 | BD07420 MW-3 MSD | EPA 9315                 | 583035   |                   |                  |
| 30580824006 | BD07421 MW-2     | EPA 9315                 | 583035   |                   |                  |
| 30580824007 | BD07422 MW-1     | EPA 9315                 | 583035   |                   |                  |
| 30580824008 | BD07423 FB-1     | EPA 9315                 | 583035   |                   |                  |
| 30580824009 | BD07424 EB-1     | EPA 9315                 | 583035   |                   |                  |
| 30580824001 | BD07418 MW-4     | EPA 9320                 | 582723   |                   |                  |
| 30580824002 | BD07419 MW-4 Dup | EPA 9320                 | 582723   |                   |                  |
| 30580824003 | BD07420 MW-3     | EPA 9320                 | 582723   |                   |                  |
| 30580824004 | BD07420 MW-3 MS  | EPA 9320                 | 582723   |                   |                  |
| 30580824005 | BD07420 MW-3 MSD | EPA 9320                 | 582723   |                   |                  |
| 30580824006 | BD07421 MW-2     | EPA 9320                 | 582723   |                   |                  |
| 30580824007 | BD07422 MW-1     | EPA 9320                 | 582723   |                   |                  |
| 30580824008 | BD07423 FB-1     | EPA 9320                 | 582723   |                   |                  |
| 30580824009 | BD07424 EB-1     | EPA 9320                 | 582723   |                   |                  |
| 30580824001 | BD07418 MW-4     | Total Radium Calculation | 589102   |                   |                  |
| 30580824002 | BD07419 MW-4 Dup | Total Radium Calculation | 589102   |                   |                  |
| 30580824003 | BD07420 MW-3     | Total Radium Calculation | 589102   |                   |                  |
| 30580824006 | BD07421 MW-2     | Total Radium Calculation | 589102   |                   |                  |
| 30580824007 | BD07422 MW-1     | Total Radium Calculation | 589102   |                   |                  |
| 30580824008 | BD07423 FB-1     | Total Radium Calculation | 589102   |                   |                  |
| 30580824009 | BD07424 EB-1     | Total Radium Calculation | 589102   |                   |                  |

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# CHAIN-OF-CUSTODY / Analytical Request Document


The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

|                                     |   |   |                                       |                                       |                      |
|-------------------------------------|---|---|---------------------------------------|---------------------------------------|----------------------|
| <b>Section A</b>                    |   | <b>Section B</b>                            |                                       | <b>Section C</b>                      |                      |
| Required Client Information:        |   | Required Project Information:               |                                       | Invoice Information:                  |                      |
| Company: Alabama Power Company      | Report To: Brooke Caton                     | Report To: Brooke Caton                     | Company Name: Alabama Power Co.       | Attention: Brooke Caton               |                      |
| Address: 744 Highway 87 GSC Bldg #8 | Copy To: Renee Jernigan & Blaine Denton     | Copy To: Renee Jernigan & Blaine Denton     | Address: 744 Highway 87 GSC Bldg #8   | Address: 744 Highway 87 GSC Bldg #8   | Regulatory Agency:   |
| Calera, AL 35040                    | Purchase Order #: APC10755638               | Purchase Order #: APC10755638               | CCR                                   | CCR                                   | State / Location: AL |
| Email To: tbwilli@southrimco.com    | Project Name: Plant Barry Pooled Upgradient | Project Name: Plant Barry Pooled Upgradient | Pace Project Manager: Skyler Richmond | Pace Project Manager: Skyler Richmond |                      |
| Phone: 205-664-6101   Fax:          | Project Number: WMMBARPU_1406               | Project Number: WMMBARPU_1406               | Pace Profile #: 16788                 | Pace Profile #: 16788                 |                      |
| Requested Due Date: 28 days         |   |   |                                       |                                       |                      |

| ITEM # | Description | Station Name Location_ID | Site Name Facility_ID        | Sample Duplicate | Matrix Spike/Matrix Spike Duplicate | Field Filtered | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED |       | # OF CONTAINERS | Preservatives | Analyses Test | Requested Analysis Filtered (Y/N) | EPA 9315 | EPA 9320 | Total Radium Sum | Residual Chlorine (Y/N) | SAMPLE CONDITIONS |
|--------|-------------|--------------------------|------------------------------|------------------|-------------------------------------|----------------|---------------------------------------|-----------------------------|-----------|-------|-----------------|---------------|---------------|-----------------------------------|----------|----------|------------------|-------------------------|-------------------|
|        |             |                          |                              |                  |                                     |                |                                       |                             | DATE      | TIME  |                 |               |               |                                   |          |          |                  |                         |                   |
| 1      | BD07418     | APCO-BY-UP-MW-4          | APCO_Barry_Pooled_Upgradient |                  |                                     |                | GW G                                  | G                           | 4/12/2023 | 9:51  | 1               | X             | X             | X                                 | X        | X        | X                | 001                     |                   |
| 2      | BD07419     | APCO-BY-UP-MW-4          | APCO_Barry_Pooled_Upgradient | X                |                                     |                | GW G                                  | G                           | 4/12/2023 | 9:51  | 1               | X             | X             | X                                 | X        | X        | X                | 002                     |                   |
| 3      | BD07420     | APCO-BY-UP-MW-3          | APCO_Barry_Pooled_Upgradient |                  | X                                   |                | GW G                                  | G                           | 4/12/2023 | 11:05 | 3               | X             | X             | X                                 | X        | X        | X                | 003, 004, 005           |                   |
| 4      | BD07421     | APCO-BY-UP-MW-2          | APCO_Barry_Pooled_Upgradient |                  |                                     |                | GW G                                  | G                           | 4/12/2023 | 12:10 | 1               | X             | X             | X                                 | X        | X        | X                | 006                     |                   |
| 5      | BD07422     | APCO-BY-UP-MW-1          | APCO_Barry_Pooled_Upgradient |                  |                                     |                | GW G                                  | G                           | 4/12/2023 | 13:05 | 1               | X             | X             | X                                 | X        | X        | X                | 007                     |                   |
| 6      | BD07423     | APCO-BY-UP-EB-01         | APCO_Barry_Pooled_Upgradient |                  |                                     |                | GW G                                  | G                           | 4/12/2023 | 13:35 | 1               | X             | X             | X                                 | X        | X        | X                | 008                     |                   |
| 7      | BD07424     | APCO-BY-UP-ES-01         | APCO_Barry_Pooled_Upgradient |                  |                                     |                | GW G                                  | G                           | 4/12/2023 | 13:45 | 1               | X             | X             | X                                 | X        | X        | X                | 009                     |                   |
| 8      |             |                          |                              |                  |                                     |                |                                       |                             |           |       |                 |               |               |                                   |          |          |                  |                         |                   |
| 9      |             |                          |                              |                  |                                     |                |                                       |                             |           |       |                 |               |               |                                   |          |          |                  |                         |                   |
| 10     |             |                          |                              |                  |                                     |                |                                       |                             |           |       |                 |               |               |                                   |          |          |                  |                         |                   |
| 11     |             |                          |                              |                  |                                     |                |                                       |                             |           |       |                 |               |               |                                   |          |          |                  |                         |                   |
| 12     |             |                          |                              |                  |                                     |                |                                       |                             |           |       |                 |               |               |                                   |          |          |                  |                         |                   |

|                     |                               |           |      |                           |         |       |
|---------------------|-------------------------------|-----------|------|---------------------------|---------|-------|
| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE      | TIME | ACCEPTED BY / AFFILIATION | DATE    | TIME  |
|                     | Brooke Caton / APC-GTL        | 4/18/2023 | 9:07 | <i>[Signature]</i>        | 4-20-23 | 10:15 |

**WO#: 30580824**



30580824

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

DATE Signed:

Received on \_\_\_\_\_

TEMP in C \_\_\_\_\_

Infect (Y/N) \_\_\_\_\_

Sealed (Y/N) \_\_\_\_\_

Cooler (Y/N) \_\_\_\_\_

Customer (Y/N) \_\_\_\_\_



DC# Title: ENV-FRM-GBUR-0088 v04 Sample Condition Upon Receipt  
 Pittsburgh  
 Effective Date: 02/03/2023

WO#: 30580824

PM: SCR Due Date: 05/18/23  
 CLIENT: ALABAMA PWR

Client Name: Alabama Power

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other

Tracking Number: 6368 8465 0871

|             |    |
|-------------|----|
| Examined By | PS |
| Labeled By  | PS |
| Temped By   | —  |

Custody Seal on Cooler/Box Present:  Yes  No Seals Intact:  Yes  No

Thermometer Used: — Type of Ice: Wet Blue None

Cooler Temperature: Observed Temp — °C Correction Factor: — °C Final Temp: — °C  
 Temp should be above freezing to 6°C

| Comments:  | Yes | No | NA | pH paper Lot#                     | D.P.D. Residual Chlorine Lot #             |
|--|-----|----|----|-----------------------------------|--|
|  |     |    |    | 1003121                           | —  |
| Chain of Custody Present   | /   |    |    |                                   |  |
| Chain of Custody Filled Out:<br>-Were client corrections present on COC  | /   |    |    |                                   |  |
| Chain of Custody Relinquished  | /   |    |    |                                   |  |
| Sampler Name & Signature on COC:   | /   |    |    |                                   |  |
| Sample Labels match COC:<br>-Includes date/time/ID<br>Matrix: WT   | /   |    |    |                                   |  |
| Samples Arrived within Hold Time:  | /   |    |    |                                   |  |
| Short Hold Time Analysis (<72hr remaining):  |     | /  |    |                                   |  |
| Rush Turn Around Time Requested:   |     | /  |    |                                   |  |
| Sufficient Volume:   | /   |    |    |                                   |  |
| Correct Containers Used:<br>-Pace Containers Used  | /   |    |    |                                   |  |
| Containers Intact:   | /   |    |    |                                   |  |
| Orthophosphate field filtered:   |     |    | /  |                                   |  |
| Hex Cr Aqueous samples field filtered:   |     |    | /  |                                   |  |
| Organic Samples checked for dechlorination   |     |    | /  |                                   |  |
| Filtered volume received for dissolved tests:  |     |    | /  |                                   |  |
| All containers checked for preservation:<br>exceptions: VOA, coliform, TOC, O&G,<br>Phenolics, Radon, non-aqueous matrix | /   |    |    |                                   |  |
| All containers meet method preservation requirements:  | /   |    |    | PHC2<br>Initial when completed PS | Date/Time of Preservation                  |
| 8260C/D: Headspace in VOA Vials (> 6mm)  |     |    | /  |                                   |  |
| 624.1: Headspace in VOA Vials (0mm)  |     |    | /  |                                   |  |
| Trip Blank Present:  |     |    | /  |                                   | Trip blank custody seal present? YES or NO |
| Rad Samples Screened <0.5 mrem/hr.   | /   |    |    | Initial when completed PS         | Date: 4/21/23 Survey Meter SN: 1569        |
| Comments:  |     |    |    |                                   |  |

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office. PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

# Quality Control Sample Performance Assessment



*Analyst Must Manually Enter All Fields Highlighted in Yellow.*

Test: Ra-226  
Analyst: SLC  
Date: 4/25/2023  
Worklist: 72709  
Matrix: W1

| Method Blank Assessment             |         |
|-------------------------------------|---------|
| MB Sample ID                        | 2831530 |
| MB concentration:                   | 0.208   |
| M/B 2 Sigma CSU:                    | 0.117   |
| MB MDC:                             | 0.172   |
| MB Numerical Performance Indicator: | 3.50    |
| MB Status vs Numerical Indicator:   | Fail*   |
| MB Status vs. MDC:                  | N/A     |

| Laboratory Control Sample Assessment          |           | LCSD (Y or N)? | N         |
|---|-----------|----------------|-----------|
|   |           | LCSD72709      | LCSD72709 |
| Count Date:                                   | 5/17/2023 |                |           |
| Spike I.D.:                                   | 19-033    |                |           |
| Decay Corrected Spike Concentration (pCi/mL): | 24.017    |                |           |
| Volume Used (mL):                             | 0.10      |                |           |
| Aliquot Volume (L, g, F):                     | 0.507     |                |           |
| Target Conc. (pCi/L, g, F):                   | 4.737     |                |           |
| Uncertainty (Calculated):                     | 0.057     |                |           |
| Result (pCi/L, g, F):                         | 5.031     |                |           |
| LCSD/LCSD 2 Sigma CSU (pCi/L, g, F):          | 0.880     |                |           |
| Numerical Performance Indicator:              | 0.65      |                |           |
| Percent Recovery:                             | 106.21%   |                |           |
| Status vs Numerical Indicator:                | Pass      |                |           |
| Status vs Recovery:                           | N/A       |                |           |
| Upper % Recovery Limits:                      | 125%      |                |           |
| Lower % Recovery Limits:                      | 75%       |                |           |

| Sample Matrix Spike Control Assessment                   | MS/MSD 1    | MS/MSD 2 |
|--|-------------|----------|
| Sample Collection Date:                                  | 4/12/2023   |          |
| Sample I.D.:   | 30580824003 |          |
| Sample MS I.D.:  | 30580824004 |          |
| Sample MSD I.D.:   | 30580824005 |          |
| Spike I.D.:  | 19-033      |          |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL):     | 24.018      |          |
| Spike Volume Used in MS (mL):                            | 0.20        |          |
| Spike Volume Used in MSD (mL):                           | 0.20        |          |
| MS Aliquot (L, g, F):                                    | 0.203       |          |
| MS Target Conc. (pCi/L, g, F):                           | 23.656      |          |
| MSD Aliquot (L, g, F):                                   | 0.203       |          |
| MSD Target Conc. (pCi/L, g, F):                          | 23.685      |          |
| MS Spike Uncertainty (calculated):                       | 0.284       |          |
| MSD Spike Uncertainty (calculated):                      | 0.284       |          |
| Sample Result:   | 0.656       |          |
| Sample Result 2 Sigma CSU (pCi/L, g, F):                 | 0.311       |          |
| Sample Matrix Spike Result:                              | 27.899      |          |
| Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):           | 4.412       |          |
| Sample Matrix Spike Duplicate Result:                    | 26.233      |          |
| Sample Matrix Spike Duplicate Result:                    | 4.162       |          |
| Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 1.586       |          |
| MS Numerical Performance Indicator:                      | 0.887       |          |
| MSD Numerical Performance Indicator:                     | 115.16%     |          |
| MS Percent Recovery:                                     | 107.99%     |          |
| MS Status vs Numerical Indicator:                        | Pass        |          |
| MS Status vs Numerical Indicator:                        | Pass        |          |
| MS Status vs Recovery:                                   | N/A         |          |
| MSD Status vs Recovery:                                  | N/A         |          |
| MS/MSD Upper % Recovery Limits:                          | 125%        |          |
| MS/MSD Lower % Recovery Limits:                          | 75%         |          |

| Duplicate Sample Assessment                        | Matrix Spike/Matrix Spike Duplicate Sample Assessment    |
|--|--|
| Sample I.D.:                                       | Sample I.D.:   |
| Duplicate Sample I.D.:                             | Sample MS I.D.:  |
| Sample Result (pCi/L, g, F):                       | Sample MSD I.D.:   |
| Sample Duplicate Result (pCi/L, g, F):             | Sample Matrix Spike Result:                              |
| Sample Duplicate Result (pCi/L, g, F):             | Sample Matrix Spike Duplicate Result:                    |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | Sample Matrix Spike Duplicate Result:                    |
| Are sample and/or duplicate results below RL?      | Duplicate Numerical Performance Indicator:               |
| Duplicate Numerical Performance Indicator:         | (Based on the Percent Recoveries) MS/ MSD Duplicate RPD: |
| Duplicate RPD:                                     | MS/ MSD Duplicate Status vs Numerical Indicator:         |
| Duplicate Status vs Numerical Indicator:           | MS/ MSD Duplicate Status vs RPD:                         |
| Duplicate Status vs RPD:                           | % RPD Limit:   |
| % RPD Limit:                                       |  |

|  |             |
|--|-------------|
| Sample I.D.:   | 30580824003 |
| Sample MS I.D.:  | 30580824004 |
| Sample MSD I.D.:   | 30580824005 |
| Sample I.D.:   | 19-033      |
| Sample Matrix Spike Result:                              | 27.899      |
| Sample Matrix Spike Duplicate Result:                    | 26.233      |
| Sample Matrix Spike Duplicate Result:                    | 4.412       |
| Sample Matrix Spike Duplicate Result:                    | 4.162       |
| Duplicate Numerical Performance Indicator:               | 0.538       |
| (Based on the Percent Recoveries) MS/ MSD Duplicate RPD: | 6.43%       |
| MS/ MSD Duplicate Status vs Numerical Indicator:         | Pass        |
| 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:**

\*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.

ET  
5-18-23

1AM 5/18/23



# Quality Control Sample Performance Assessment



Test: Ra-228  
Analyst: ZPC  
Date: 5/3/2023  
Worklist: 72701  
Matrix: W/T

**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

| Method Blank Assessment             |              |
|-------------------------------------|--------------|
| MB Sample ID                        | 2829969      |
| MB concentration:                   | 0.978        |
| MB 2 Sigma CSU:                     | 0.391        |
| MB MDC:                             | 0.591        |
| MB Numerical Performance Indicator: | 4.90         |
| MB Status vs Numerical Indicator:   | Fail*        |
| MB Status vs. MDC:                  | See Comment* |

| Laboratory Control Sample Assessment          |          |
|---|----------|
| LCSD (Y or N)?                                | N        |
| Count Date:                                   | 5/9/2023 |
| Spike I.D.:                                   | 22-040   |
| Decay Corrected Spike Concentration (pCi/mL): | 32.638   |
| Volume Used (mL):                             | 0.10     |
| Aliquot Volume (L, g, F):                     | 0.804    |
| Target Conc. (pCi/L, g, F):                   | 4.060    |
| Uncertainty (Calculated):                     | 0.199    |
| Result (pCi/L, g, F):                         | 3.867    |
| LCSD/LCSD 2 Sigma CSU (pCi/L, g, F):          | 0.898    |
| Numerical Performance Indicator:              | -0.41    |
| Percent Recovery:                             | 95.24%   |
| Status vs Numerical Indicator:                | N/A      |
| Status vs Recovery:                           | Pass     |
| Upper % Recovery Limits:                      | 135%     |
| Lower % Recovery Limits:                      | 60%      |

| Duplicate Sample Assessment                        |   |
|--|---|
| Sample I.D.:                                       | Enter Duplicate sample IDs if other than LCS/LCSD in the space below. |
| Duplicate Sample I.D.:                             |   |
| Sample Result (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?      | See Below ##  |
| Duplicate Numerical Performance Indicator:         |   |
| Duplicate RPD:                                     |   |
| Duplicate Status vs Numerical Indicator:           |   |
| Duplicate Status vs RPD:                           |   |
| % RPD Limit:                                       |   |

| Sample Matrix Spike Control Assessment               |                       |
|--|-----------------------|
| Sample Collection Date:                              | MS/MSD 1<br>4/4/2023  |
| Sample I.D.:   | 30580435028           |
| Sample MS I.D.:                                      | 30580435029           |
| Sample MSD I.D.:                                     | 30580435030           |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL): | MS/MSD 2<br>4/12/2023 |
| Spike Volume Used in MS (mL):                        | 33.016                |
| Spike Volume Used in MSD (mL):                       | 0.20                  |
| MS Aliquot (L, g, F):                                | 0.801                 |
| MS Target Conc. (pCi/L, g, F):                       | 8.247                 |
| MSD Aliquot (L, g, F):                               | 0.801                 |
| MSD Target Conc. (pCi/L, g, F):                      | 8.243                 |
| MS Spike Uncertainty (calculated):                   | 0.404                 |
| MSD Spike Uncertainty (calculated):                  | 0.404                 |
| Sample Result 2 Sigma CSU (pCi/L, g, F):             | 0.793                 |
| Sample Matrix Spike Result:                          | 0.429                 |
| Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):       | 6.114                 |
| Sample Matrix Spike Duplicate Result:                | 6.427                 |
| Sample Matrix Spike Duplicate Result:                | 1.339                 |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):   | 6.606                 |
| MS Numerical Performance Indicator:                  | 1.372                 |
| MSD Numerical Performance Indicator:                 | -3.189                |
| MS Percent Recovery:                                 | 64.52%                |
| MSD Percent Recovery:                                | 70.53%                |
| MS Status vs Numerical Indicator:                    | Fail****              |
| MSD Status vs Numerical Indicator:                   | Fail****              |
| MS Status vs Recovery:                               | Pass                  |
| MSD Status vs Recovery:                              | Pass                  |
| MS/MSD Upper % Recovery Limits:                      | 135%                  |
| MS/MSD Lower % Recovery Limits:                      | 60%                   |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment    |             |
|--|-------------|
| Sample I.D.:   | 30580435028 |
| Sample MS I.D.:  | 30580435029 |
| Sample MSD I.D.:   | 30580435030 |
| Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):           | 6.114       |
| Sample Matrix Spike Duplicate Result:                    | 1.268       |
| Sample Matrix Spike Duplicate Result:                    | 6.606       |
| Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 1.372       |
| Duplicate Numerical Performance Indicator:               | -0.516      |
| Duplicate Numerical Performance Indicator:               | 8.89%       |
| (Based on the Percent Recoveries) MS/MSD Duplicate RPD:  | 13.85%      |
| MS/MSD Duplicate Status vs Numerical Indicator:          | Pass        |
| MS/MSD Duplicate Status vs RPD:                          | Pass        |
| % RPD Limit:   | 36%         |

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

Comments:  
\*The method blank result is below the reporting limit for this analysis and is acceptable.

\*\*\*\*If another QC criteria pass, this batch is acceptable. The matrix spike duplicate result indicates a possible bias in this sample only and may not be applicable to any other samples in this analytical batch.

MS/MSD Pass to recovery criteria

MS/MSD Pass to recovery criteria

MS 5/11/23

MS/MSD Pass to recovery criteria

June 02, 2023

Brooke Caton  
Alabama Power  
744 Highway 87  
Calera, AL 35040

RE: Project: WMWBARAP\_1404  
Pace Project No.: 30580435

Dear Brooke Caton:

Enclosed are the analytical results for sample(s) received by the laboratory between April 19, 2023 and May 03, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

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

Sincerely,



Skyler C. Richmond  
skyler.richmond@pacelabs.com  
(724)850-5600  
Project Manager

Enclosures

cc: Blaine Denton, Alabama Power  
Renee Jernigan, Alabama Power



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: WMWBARAP\_1404  
Pace Project No.: 30580435

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### **Pace Analytical Services Pennsylvania**

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Florida: Cert E871149 SEKS WET

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1

New Hampshire/TNI Certification #: 297617

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

| Lab ID      | Sample ID          | Matrix | Date Collected | Date Received  |
|-------------|--------------------|--------|----------------|----------------|
| 30580435001 | BD06624 MW-15      | Water  | 04/03/23 09:12 | 04/19/23 10:25 |
| 30580435002 | BD06624 MW-15 MS   | Water  | 04/03/23 09:12 | 04/19/23 10:25 |
| 30580435003 | BD06624 MW-15 MSD  | Water  | 04/03/23 09:12 | 04/19/23 10:25 |
| 30580435004 | BD06625 EB-1       | Water  | 04/03/23 09:40 | 04/19/23 10:25 |
| 30580435005 | BD06626 MW-24H     | Water  | 04/03/23 11:48 | 04/19/23 10:25 |
| 30580435006 | BD06627 MW-24H Dup | Water  | 04/03/23 11:48 | 04/19/23 10:25 |
| 30580435007 | BD06628 MW-25H     | Water  | 04/03/23 14:24 | 04/19/23 10:25 |
| 30580435008 | BD06629 MW-25H Dup | Water  | 04/03/23 14:24 | 04/19/23 10:25 |
| 30580435009 | BD06630 MW-25V     | Water  | 04/03/23 15:17 | 04/19/23 10:25 |
| 30580435010 | BD06631 MW-1       | Water  | 04/03/23 08:50 | 04/19/23 10:25 |
| 30580435011 | BD06632 MW-2       | Water  | 04/03/23 11:23 | 04/19/23 10:25 |
| 30580435012 | BD06633 MW-10V     | Water  | 04/03/23 15:16 | 04/19/23 10:25 |
| 30580435013 | BD06634 MW-7V      | Water  | 04/03/23 16:40 | 04/19/23 10:25 |
| 30580435014 | BD06635 MW-7       | Water  | 04/03/23 17:37 | 04/19/23 10:25 |
| 30580435015 | BD06636 MW-6       | Water  | 04/04/23 08:50 | 04/19/23 10:25 |
| 30580435016 | BD06637 FB-1       | Water  | 04/04/23 09:20 | 04/19/23 10:25 |
| 30580435017 | BD06638 MW-8       | Water  | 04/03/23 09:42 | 04/19/23 10:25 |
| 30580435018 | BD06638 MW-8 MS    | Water  | 04/03/23 09:42 | 04/19/23 10:25 |
| 30580435019 | BD06638 MW-8 MSD   | Water  | 04/03/23 09:42 | 04/19/23 10:25 |
| 30580435020 | BD06639 MW-10      | Water  | 04/03/23 12:42 | 04/19/23 10:25 |
| 30580435021 | BD06640 MW-8V      | Water  | 04/03/23 15:40 | 04/19/23 10:25 |
| 30580435022 | BD06641 MW-9       | Water  | 04/04/23 08:47 | 04/19/23 10:25 |
| 30580435023 | BD06642 MW-9 Dup   | Water  | 04/04/23 08:47 | 04/19/23 10:25 |
| 30580435024 | BD06643 FB-3       | Water  | 04/04/23 09:20 | 04/19/23 10:25 |
| 30580435025 | BD06782 MW-11      | Water  | 04/04/23 11:25 | 04/19/23 10:25 |
| 30580435026 | BD06783 MW-12V     | Water  | 04/04/23 12:35 | 04/19/23 10:25 |
| 30580435027 | BD06784 MW-12V Dup | Water  | 04/04/23 12:35 | 04/19/23 10:25 |
| 30580435028 | BD06785 MW-12      | Water  | 04/04/23 13:45 | 04/19/23 10:25 |
| 30580435029 | BD06785 MW-12 MS   | Water  | 04/04/23 13:45 | 04/19/23 10:25 |
| 30580435030 | BD06785 MW-12 MSD  | Water  | 04/04/23 13:45 | 04/19/23 10:25 |
| 30580435031 | BD06786 MW-13      | Water  | 04/04/23 15:05 | 04/19/23 10:25 |
| 30580435032 | BD06787 MW-13V     | Water  | 04/04/23 15:50 | 04/19/23 10:25 |
| 30580435033 | BD06788 FB-2       | Water  | 04/04/23 16:20 | 04/19/23 10:25 |
| 30580435034 | BD06841 MW-23H     | Water  | 04/04/23 11:15 | 04/19/23 10:25 |
| 30580435035 | BD06842 MW-23V     | Water  | 04/04/23 11:55 | 04/19/23 10:25 |
| 30580435036 | BD06843 MW-17V     | Water  | 04/04/23 12:50 | 04/19/23 10:25 |
| 30580435037 | BD06844 MW-17H     | Water  | 04/04/23 13:36 | 04/19/23 10:25 |

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

| Lab ID      | Sample ID      | Matrix | Date Collected | Date Received  |
|-------------|----------------|--------|----------------|----------------|
| 30580435038 | BD06845 MW-14V | Water  | 04/04/23 15:05 | 04/19/23 10:25 |
| 30580435039 | BD06846 MW-16  | Water  | 04/05/23 09:45 | 04/19/23 10:25 |
| 30580435040 | BD06847 MW-5V  | Water  | 04/04/23 11:11 | 04/19/23 10:25 |
| 30580435041 | BD06848 MW-5   | Water  | 04/04/23 12:02 | 04/19/23 10:25 |
| 30580435042 | BD06849 MW-4   | Water  | 04/04/23 13:01 | 04/19/23 10:25 |
| 30580435043 | BD06850 MW-3   | Water  | 04/04/23 14:14 | 04/19/23 10:25 |
| 30580435044 | BD06851 MW-1V  | Water  | 04/04/23 15:12 | 04/19/23 10:25 |
| 30580435045 | BD06852 MW-16V | Water  | 04/04/23 16:31 | 04/19/23 10:25 |
| 30580435046 | BD06853 MW-18H | Water  | 04/05/23 09:23 | 04/19/23 10:25 |
| 30580435047 | BD06854 MW-14  | Water  | 04/05/23 11:35 | 04/19/23 10:25 |
| 30580435048 | BD06855 FB-4   | Water  | 04/05/23 12:30 | 04/19/23 10:25 |
| 30584315001 | BD08117 MW-20V | Water  | 04/24/23 12:58 | 05/03/23 10:00 |
| 30584315002 | BD08118 MW-22H | Water  | 04/24/23 14:05 | 05/03/23 10:00 |
| 30584315003 | BD08119 MW-15V | Water  | 04/24/23 15:00 | 05/03/23 10:00 |
| 30584315004 | BD08120 MW-20H | Water  | 04/24/23 16:06 | 05/03/23 10:00 |
| 30584315005 | BD08121 MW-19H | Water  | 04/24/23 17:55 | 05/03/23 10:00 |

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: WMWBARAP\_1404  
Pace Project No.: 30580435

| Lab ID      | Sample ID          | Method                   | Analysts | Analytes Reported | Laboratory |
|-------------|--------------------|--------------------------|----------|-------------------|------------|
| 30580435001 | BD06624 MW-15      | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                    | EPA 9320                 | JDZ      | 1                 | PASI-PA    |
|             |                    | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435002 | BD06624 MW-15 MS   | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                    | EPA 9320                 | JDZ      | 1                 | PASI-PA    |
|             |                    | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435003 | BD06624 MW-15 MSD  | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                    | EPA 9320                 | JDZ      | 1                 | PASI-PA    |
|             |                    | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435004 | BD06625 EB-1       | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                    | EPA 9320                 | JDZ      | 1                 | PASI-PA    |
|             |                    | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435005 | BD06626 MW-24H     | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                    | EPA 9320                 | JDZ      | 1                 | PASI-PA    |
|             |                    | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435006 | BD06627 MW-24H Dup | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                    | EPA 9320                 | JDZ      | 1                 | PASI-PA    |
|             |                    | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435007 | BD06628 MW-25H     | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                    | EPA 9320                 | JDZ      | 1                 | PASI-PA    |
|             |                    | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435008 | BD06629 MW-25H Dup | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                    | EPA 9320                 | JDZ      | 1                 | PASI-PA    |
|             |                    | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435009 | BD06630 MW-25V     | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                    | EPA 9320                 | JDZ      | 1                 | PASI-PA    |
|             |                    | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435010 | BD06631 MW-1       | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                    | EPA 9320                 | JDZ      | 1                 | PASI-PA    |
|             |                    | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435011 | BD06632 MW-2       | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                    | EPA 9320                 | JDZ      | 1                 | PASI-PA    |
|             |                    | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435012 | BD06633 MW-10V     | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                    | EPA 9320                 | JDZ      | 1                 | PASI-PA    |
|             |                    | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435013 | BD06634 MW-7V      | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                    | EPA 9320                 | JDZ      | 1                 | PASI-PA    |
|             |                    | Total Radium Calculation | JAL      | 1                 | PASI-PA    |

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: WMWBARAP\_1404  
Pace Project No.: 30580435

| Lab ID      | Sample ID        | Method                   | Analysts | Analytes Reported | Laboratory |
|-------------|------------------|--------------------------|----------|-------------------|------------|
| 30580435014 | BD06635 MW-7     | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                  | EPA 9320                 | JDZ      | 1                 | PASI-PA    |
|             |                  | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435015 | BD06636 MW-6     | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                  | EPA 9320                 | JDZ      | 1                 | PASI-PA    |
|             |                  | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435016 | BD06637 FB-1     | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                  | EPA 9320                 | JDZ      | 1                 | PASI-PA    |
|             |                  | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435017 | BD06638 MW-8     | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                  | EPA 9320                 | JJS1     | 1                 | PASI-PA    |
|             |                  | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435018 | BD06638 MW-8 MS  | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                  | EPA 9320                 | JJS1     | 1                 | PASI-PA    |
| 30580435019 | BD06638 MW-8 MSD | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                  | EPA 9320                 | JJS1     | 1                 | PASI-PA    |
| 30580435020 | BD06639 MW-10    | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                  | EPA 9320                 | JDZ      | 1                 | PASI-PA    |
|             |                  | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435021 | BD06640 MW-8V    | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                  | EPA 9320                 | JDZ      | 1                 | PASI-PA    |
|             |                  | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435022 | BD06641 MW-9     | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                  | EPA 9320                 | JDZ      | 1                 | PASI-PA    |
|             |                  | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435023 | BD06642 MW-9 Dup | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                  | EPA 9320                 | JDZ      | 1                 | PASI-PA    |
|             |                  | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435024 | BD06643 FB-3     | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                  | EPA 9320                 | JJS1     | 1                 | PASI-PA    |
|             |                  | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435025 | BD06782 MW-11    | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                  | EPA 9320                 | JJS1     | 1                 | PASI-PA    |
|             |                  | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435026 | BD06783 MW-12V   | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                  | EPA 9320                 | JJS1     | 1                 | PASI-PA    |
|             |                  | Total Radium Calculation | JAL      | 1                 | PASI-PA    |

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### SAMPLE ANALYTE COUNT

Project: WMWBARAP\_1404  
Pace Project No.: 30580435

| Lab ID      | Sample ID          | Method                   | Analysts | Analytes Reported | Laboratory |
|-------------|--------------------|--------------------------|----------|-------------------|------------|
| 30580435027 | BD06784 MW-12V Dup | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                    | EPA 9320                 | JJS1     | 1                 | PASI-PA    |
|             |                    | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435028 | BD06785 MW-12      | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                    | EPA 9320                 | ZPC      | 1                 | PASI-PA    |
|             |                    | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435029 | BD06785 MW-12 MS   | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                    | EPA 9320                 | ZPC      | 1                 | PASI-PA    |
| 30580435030 | BD06785 MW-12 MSD  | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                    | EPA 9320                 | ZPC      | 1                 | PASI-PA    |
| 30580435031 | BD06786 MW-13      | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                    | EPA 9320                 | JJS1     | 1                 | PASI-PA    |
|             |                    | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435032 | BD06787 MW-13V     | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                    | EPA 9320                 | JJS1     | 1                 | PASI-PA    |
|             |                    | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435033 | BD06788 FB-2       | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                    | EPA 9320                 | JJS1     | 1                 | PASI-PA    |
|             |                    | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435034 | BD06841 MW-23H     | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                    | EPA 9320                 | JJS1     | 1                 | PASI-PA    |
|             |                    | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435035 | BD06842 MW-23V     | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                    | EPA 9320                 | JJS1     | 1                 | PASI-PA    |
|             |                    | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435036 | BD06843 MW-17V     | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                    | EPA 9320                 | JJS1     | 1                 | PASI-PA    |
|             |                    | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435037 | BD06844 MW-17H     | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                    | EPA 9320                 | JJS1     | 1                 | PASI-PA    |
|             |                    | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435038 | BD06845 MW-14V     | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                    | EPA 9320                 | JJS1     | 1                 | PASI-PA    |
|             |                    | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435039 | BD06846 MW-16      | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                    | EPA 9320                 | JJS1     | 1                 | PASI-PA    |
|             |                    | Total Radium Calculation | JAL      | 1                 | PASI-PA    |

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### SAMPLE ANALYTE COUNT

Project: WMWBARAP\_1404  
Pace Project No.: 30580435

| Lab ID      | Sample ID      | Method                   | Analysts | Analytes Reported | Laboratory |
|-------------|----------------|--------------------------|----------|-------------------|------------|
| 30580435040 | BD06847 MW-5V  | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                | EPA 9320                 | JJS1     | 1                 | PASI-PA    |
|             |                | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435041 | BD06848 MW-5   | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                | EPA 9320                 | ZPC      | 1                 | PASI-PA    |
|             |                | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435042 | BD06849 MW-4   | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                | EPA 9320                 | ZPC      | 1                 | PASI-PA    |
|             |                | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435043 | BD06850 MW-3   | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                | EPA 9320                 | ZPC      | 1                 | PASI-PA    |
|             |                | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435044 | BD06851 MW-1V  | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                | EPA 9320                 | ZPC      | 1                 | PASI-PA    |
|             |                | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435045 | BD06852 MW-16V | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                | EPA 9320                 | ZPC      | 1                 | PASI-PA    |
|             |                | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435046 | BD06853 MW-18H | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                | EPA 9320                 | ZPC      | 1                 | PASI-PA    |
|             |                | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435047 | BD06854 MW-14  | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                | EPA 9320                 | ZPC      | 1                 | PASI-PA    |
|             |                | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30580435048 | BD06855 FB-4   | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                | EPA 9320                 | ZPC      | 1                 | PASI-PA    |
|             |                | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30584315001 | BD08117 MW-20V | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                | EPA 9320                 | VAL      | 1                 | PASI-PA    |
|             |                | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30584315002 | BD08118 MW-22H | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                | EPA 9320                 | VAL      | 1                 | PASI-PA    |
|             |                | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30584315003 | BD08119 MW-15V | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                | EPA 9320                 | VAL      | 1                 | PASI-PA    |
|             |                | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
| 30584315004 | BD08120 MW-20H | EPA 9315                 | SLC      | 1                 | PASI-PA    |

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### SAMPLE ANALYTE COUNT

Project: WMWBARAP\_1404

Pace Project No.: 30580435

| Lab ID      | Sample ID      | Method                   | Analysts | Analytes Reported | Laboratory |
|-------------|----------------|--------------------------|----------|-------------------|------------|
| 30584315005 | BD08121 MW-19H | EPA 9320                 | VAL      | 1                 | PASI-PA    |
|             |                | Total Radium Calculation | JAL      | 1                 | PASI-PA    |
|             |                | EPA 9315                 | SLC      | 1                 | PASI-PA    |
|             |                | EPA 9320                 | VAL      | 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: WMWBARAP\_1404

Pace Project No.: 30580435

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**Method:** EPA 9315

**Description:** 9315 Total Radium

**Client:** Alabama Power

**Date:** June 02, 2023

**General Information:**

53 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: WMWBARAP\_1404

Pace Project No.: 30580435

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**Method:** EPA 9320

**Description:** 9320 Radium 228

**Client:** Alabama Power

**Date:** June 02, 2023

**General Information:**

53 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: WMWBARAP\_1404  
Pace Project No.: 30580435

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**Method:** Total Radium Calculation  
**Description:** Total Radium 228+226  
**Client:** Alabama Power  
**Date:** June 02, 2023

**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: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06624 MW-15**      **Lab ID: 30580435001**      Collected: 04/03/23 09:12      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters                            | Method                   | Act ± Unc (MDC) Carr Trac                          | Units | Analyzed       | CAS No.    | Qual |
|---------------------------------------|--------------------------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg |                          |  |       |                |            |      |
| Radium-226                            | EPA 9315                 | <b>0.778 ± 0.444 (0.639)</b><br><b>C:59% T:NA</b>  | pCi/L | 05/17/23 10:08 | 13982-63-3 |      |
| Pace Analytical Services - Greensburg |                          |  |       |                |            |      |
| Radium-228                            | EPA 9320                 | <b>0.848 ± 0.377 (0.614)</b><br><b>C:83% T:89%</b> | pCi/L | 05/03/23 11:24 | 15262-20-1 |      |
| Pace Analytical Services - Greensburg |                          |  |       |                |            |      |
| Total Radium                          | Total Radium Calculation | <b>1.63 ± 0.821 (1.25)</b>                         | pCi/L | 05/17/23 16:37 | 7440-14-4  |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06624 MW-15 MS**      **Lab ID: 30580435002**      Collected: 04/03/23 09:12      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters | Method                                | Act ± Unc (MDC) Carr Trac                        | Units | Analyzed       | CAS No.    | Qual |
|------------|---------------------------------------|--|-------|----------------|------------|------|
|            | Pace Analytical Services - Greensburg |  |       |                |            |      |
| Radium-226 | EPA 9315                              | <b>109.92 %REC ± NA (NA)</b><br><b>C:NA T:NA</b> | pCi/L | 05/16/23 18:48 | 13982-63-3 |      |
|            | Pace Analytical Services - Greensburg |  |       |                |            |      |
| Radium-228 | EPA 9320                              | <b>90.44 %REC ± NA (NA)</b><br><b>C:NA T:NA</b>  | pCi/L | 05/03/23 11:24 | 15262-20-1 |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06624 MW-15 MSD**      **Lab ID: 30580435003**      Collected: 04/03/23 09:12      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters                            | Method   | Act ± Unc (MDC) Carr Trac  | Units | Analyzed       | CAS No.    | Qual |
|---------------------------------------|----------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg |          |  |       |                |            |      |
| Radium-226                            | EPA 9315 | <b>111.04 %REC 1.01RPD ±</b><br><b>NA (NA)</b><br><b>C:NA T:NA</b> | pCi/L | 05/16/23 18:47 | 13982-63-3 |      |
| Pace Analytical Services - Greensburg |          |  |       |                |            |      |
| Radium-228                            | EPA 9320 | <b>94.05 %REC 3.91RPD ± NA</b><br><b>(NA)</b><br><b>C:NA T:NA</b>  | pCi/L | 05/03/23 11:24 | 15262-20-1 |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

| Parameters  | Method                   | Act ± Unc (MDC) Carr Trac                           | Units | Analyzed       | CAS No.    | Qual |
|---|--------------------------|---|-------|----------------|------------|------|
| <b>Sample: BD06625 EB-1</b> <b>Lab ID: 30580435004</b> Collected: 04/03/23 09:40      Received: 04/19/23 10:25      Matrix: Water<br>PWS:      Site ID:      Sample Type: |                          |   |       |                |            |      |
| Pace Analytical Services - Greensburg   |                          |   |       |                |            |      |
| Radium-226  | EPA 9315                 | <b>0.165U ± 0.262 (0.572)</b><br><b>C:93% T:NA</b>  | pCi/L | 05/16/23 19:14 | 13982-63-3 |      |
| Pace Analytical Services - Greensburg   |                          |   |       |                |            |      |
| Radium-228  | EPA 9320                 | <b>0.179U ± 0.222 (0.466)</b><br><b>C:82% T:97%</b> | pCi/L | 05/03/23 11:24 | 15262-20-1 |      |
| Pace Analytical Services - Greensburg   |                          |   |       |                |            |      |
| Total Radium  | Total Radium Calculation | <b>0.344U ± 0.484 (1.04)</b>                        | pCi/L | 05/17/23 16:37 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06626 MW-24H**      **Lab ID: 30580435005**      Collected: 04/03/23 11:48      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters                            | Method                   | Act ± Unc (MDC) Carr Trac                          | Units | Analyzed       | CAS No.    | Qual |
|---------------------------------------|--------------------------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg |                          |  |       |                |            |      |
| Radium-226                            | EPA 9315                 | <b>0.597 ± 0.295 (0.369)</b><br><b>C:93% T:NA</b>  | pCi/L | 05/16/23 19:14 | 13982-63-3 |      |
| Pace Analytical Services - Greensburg |                          |  |       |                |            |      |
| Radium-228                            | EPA 9320                 | <b>0.859 ± 0.431 (0.748)</b><br><b>C:77% T:88%</b> | pCi/L | 05/03/23 14:49 | 15262-20-1 |      |
| Pace Analytical Services - Greensburg |                          |  |       |                |            |      |
| Total Radium                          | Total Radium Calculation | <b>1.46 ± 0.726 (1.12)</b>                         | pCi/L | 05/17/23 16:37 | 7440-14-4  |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06627 MW-24H Dup**      **Lab ID: 30580435006**      Collected: 04/03/23 11:48      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters   | Method                                | Act ± Unc (MDC) Carr Trac                           | Units | Analyzed       | CAS No.    | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
|              | Pace Analytical Services - Greensburg |   |       |                |            |      |
| Radium-226   | EPA 9315                              | <b>1.17 ± 0.408 (0.306)</b><br><b>C:89% T:NA</b>    | pCi/L | 05/16/23 19:14 | 13982-63-3 |      |
|              | Pace Analytical Services - Greensburg |   |       |                |            |      |
| Radium-228   | EPA 9320                              | <b>0.533U ± 0.354 (0.663)</b><br><b>C:78% T:87%</b> | pCi/L | 05/03/23 14:49 | 15262-20-1 |      |
|              | Pace Analytical Services - Greensburg |   |       |                |            |      |
| Total Radium | Total Radium Calculation              | <b>1.70 ± 0.762 (0.969)</b>                         | pCi/L | 05/17/23 16:37 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06628 MW-25H**      **Lab ID: 30580435007**      Collected: 04/03/23 14:24      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters                            | Method                   | Act ± Unc (MDC) Carr Trac                           | Units | Analyzed       | CAS No.    | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Radium-226                            | EPA 9315                 | <b>0.290U ± 0.212 (0.316)</b><br><b>C:92% T:NA</b>  | pCi/L | 05/16/23 19:14 | 13982-63-3 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Radium-228                            | EPA 9320                 | <b>0.434U ± 0.320 (0.620)</b><br><b>C:83% T:89%</b> | pCi/L | 05/03/23 14:49 | 15262-20-1 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Total Radium                          | Total Radium Calculation | <b>0.724U ± 0.532 (0.936)</b>                       | pCi/L | 05/17/23 16:37 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06629 MW-25H Dup**      **Lab ID: 30580435008**      Collected: 04/03/23 14:24      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters                            | Method                   | Act ± Unc (MDC) Carr Trac                           | Units | Analyzed       | CAS No.    | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Radium-226                            | EPA 9315                 | <b>0.124U ± 0.190 (0.413)</b><br><b>C:83% T:NA</b>  | pCi/L | 05/16/23 19:15 | 13982-63-3 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Radium-228                            | EPA 9320                 | <b>0.368U ± 0.343 (0.698)</b><br><b>C:81% T:90%</b> | pCi/L | 05/03/23 14:49 | 15262-20-1 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Total Radium                          | Total Radium Calculation | <b>0.492U ± 0.533 (1.11)</b>                        | pCi/L | 05/17/23 16:37 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06630 MW-25V**      **Lab ID: 30580435009**      Collected: 04/03/23 15:17      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters   | Method                                | Act ± Unc (MDC) Carr Trac                          | Units | Analyzed       | CAS No.    | Qual |
|--------------|---------------------------------------|--|-------|----------------|------------|------|
|              | Pace Analytical Services - Greensburg |  |       |                |            |      |
| Radium-226   | EPA 9315                              | <b>0.551 ± 0.334 (0.520)</b><br><b>C:86% T:NA</b>  | pCi/L | 05/16/23 19:15 | 13982-63-3 |      |
|              | Pace Analytical Services - Greensburg |  |       |                |            |      |
| Radium-228   | EPA 9320                              | <b>0.771 ± 0.360 (0.583)</b><br><b>C:77% T:94%</b> | pCi/L | 05/03/23 14:49 | 15262-20-1 |      |
|              | Pace Analytical Services - Greensburg |  |       |                |            |      |
| Total Radium | Total Radium Calculation              | <b>1.32 ± 0.694 (1.10)</b>                         | pCi/L | 05/17/23 16:37 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06631 MW-1**      **Lab ID: 30580435010**      Collected: 04/03/23 08:50      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters                            | Method                   | Act ± Unc (MDC) Carr Trac                          | Units | Analyzed       | CAS No.    | Qual |
|---------------------------------------|--------------------------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg |                          |  |       |                |            |      |
| Radium-226                            | EPA 9315                 | <b>0.844 ± 0.370 (0.434)</b><br><b>C:87% T:NA</b>  | pCi/L | 05/16/23 19:15 | 13982-63-3 |      |
| Pace Analytical Services - Greensburg |                          |  |       |                |            |      |
| Radium-228                            | EPA 9320                 | <b>0.991 ± 0.430 (0.692)</b><br><b>C:80% T:87%</b> | pCi/L | 05/03/23 14:49 | 15262-20-1 |      |
| Pace Analytical Services - Greensburg |                          |  |       |                |            |      |
| Total Radium                          | Total Radium Calculation | <b>1.84 ± 0.800 (1.13)</b>                         | pCi/L | 05/17/23 16:37 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06632 MW-2**      **Lab ID: 30580435011**      Collected: 04/03/23 11:23      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters                            | Method                   | Act ± Unc (MDC) Carr Trac                             | Units | Analyzed       | CAS No.    | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Radium-226                            | EPA 9315                 | <b>0.234U ± 0.245 (0.488)</b><br><b>C:89% T:NA</b>    | pCi/L | 05/16/23 19:15 | 13982-63-3 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Radium-228                            | EPA 9320                 | <b>0.00585U ± 0.225 (0.531)</b><br><b>C:79% T:88%</b> | pCi/L | 05/03/23 11:59 | 15262-20-1 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Total Radium                          | Total Radium Calculation | <b>0.240U ± 0.470 (1.02)</b>                          | pCi/L | 05/17/23 16:37 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06633 MW-10V**      **Lab ID: 30580435012**      Collected: 04/03/23 15:16      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters                            | Method                   | Act ± Unc (MDC) Carr Trac                          | Units | Analyzed       | CAS No.    | Qual |
|---------------------------------------|--------------------------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg |                          |  |       |                |            |      |
| Radium-226                            | EPA 9315                 | <b>0.630 ± 0.328 (0.442)</b><br><b>C:88% T:NA</b>  | pCi/L | 05/16/23 19:15 | 13982-63-3 |      |
| Pace Analytical Services - Greensburg |                          |  |       |                |            |      |
| Radium-228                            | EPA 9320                 | <b>0.606 ± 0.332 (0.594)</b><br><b>C:81% T:89%</b> | pCi/L | 05/03/23 11:59 | 15262-20-1 |      |
| Pace Analytical Services - Greensburg |                          |  |       |                |            |      |
| Total Radium                          | Total Radium Calculation | <b>1.24 ± 0.660 (1.04)</b>                         | pCi/L | 05/17/23 16:37 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06634 MW-7V**      **Lab ID: 30580435013**      Collected: 04/03/23 16:40      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters   | Method                                | Act ± Unc (MDC) Carr Trac                          | Units | Analyzed       | CAS No.    | Qual |
|--------------|---------------------------------------|--|-------|----------------|------------|------|
|              | Pace Analytical Services - Greensburg |  |       |                |            |      |
| Radium-226   | EPA 9315                              | <b>0.206U ± 0.199 (0.358)</b><br><b>C:91% T:NA</b> | pCi/L | 05/16/23 19:04 | 13982-63-3 |      |
|              | Pace Analytical Services - Greensburg |  |       |                |            |      |
| Radium-228   | EPA 9320                              | <b>0.650 ± 0.341 (0.603)</b><br><b>C:80% T:90%</b> | pCi/L | 05/03/23 11:59 | 15262-20-1 |      |
|              | Pace Analytical Services - Greensburg |  |       |                |            |      |
| Total Radium | Total Radium Calculation              | <b>0.856U ± 0.540 (0.961)</b>                      | pCi/L | 05/17/23 16:37 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06635 MW-7**      **Lab ID: 30580435014**      Collected: 04/03/23 17:37      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters                            | Method                   | Act ± Unc (MDC) Carr Trac                           | Units | Analyzed       | CAS No.    | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Radium-226                            | EPA 9315                 | <b>0.204U ± 0.233 (0.473)</b><br><b>C:84% T:NA</b>  | pCi/L | 05/16/23 19:04 | 13982-63-3 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Radium-228                            | EPA 9320                 | <b>0.286U ± 0.337 (0.707)</b><br><b>C:74% T:78%</b> | pCi/L | 05/03/23 11:59 | 15262-20-1 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Total Radium                          | Total Radium Calculation | <b>0.490U ± 0.570 (1.18)</b>                        | pCi/L | 05/17/23 16:37 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404  
Pace Project No.: 30580435

**Sample: BD06636 MW-6**      **Lab ID: 30580435015**      Collected: 04/04/23 08:50      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters   | Method                                | Act ± Unc (MDC) Carr Trac                          | Units | Analyzed       | CAS No.    | Qual |
|--------------|---------------------------------------|--|-------|----------------|------------|------|
|              | Pace Analytical Services - Greensburg |  |       |                |            |      |
| Radium-226   | EPA 9315                              | <b>0.461 ± 0.267 (0.359)</b><br><b>C:92% T:NA</b>  | pCi/L | 05/16/23 19:04 | 13982-63-3 |      |
|              | Pace Analytical Services - Greensburg |  |       |                |            |      |
| Radium-228   | EPA 9320                              | <b>0.865 ± 0.403 (0.672)</b><br><b>C:72% T:87%</b> | pCi/L | 05/03/23 11:59 | 15262-20-1 |      |
|              | Pace Analytical Services - Greensburg |  |       |                |            |      |
| Total Radium | Total Radium Calculation              | <b>1.33 ± 0.670 (1.03)</b>                         | pCi/L | 05/17/23 16:37 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06637 FB-1**      **Lab ID: 30580435016**      Collected: 04/04/23 09:20      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters                            | Method                   | Act ± Unc (MDC) Carr Trac                           | Units | Analyzed       | CAS No.    | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Radium-226                            | EPA 9315                 | <b>0.255U ± 0.210 (0.351)</b><br><b>C:94% T:NA</b>  | pCi/L | 05/16/23 19:04 | 13982-63-3 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Radium-228                            | EPA 9320                 | <b>0.404U ± 0.304 (0.593)</b><br><b>C:78% T:92%</b> | pCi/L | 05/03/23 15:21 | 15262-20-1 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Total Radium                          | Total Radium Calculation | <b>0.659U ± 0.514 (0.944)</b>                       | pCi/L | 05/17/23 16:37 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06638 MW-8**      **Lab ID: 30580435017**      Collected: 04/03/23 09:42      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters                            | Method                   | Act ± Unc (MDC) Carr Trac                          | Units | Analyzed       | CAS No.    | Qual |
|---------------------------------------|--------------------------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg |                          |  |       |                |            |      |
| Radium-226                            | EPA 9315                 | <b>0.380U ± 0.258 (0.384)</b><br><b>C:85% T:NA</b> | pCi/L | 05/16/23 18:52 | 13982-63-3 |      |
| Pace Analytical Services - Greensburg |                          |  |       |                |            |      |
| Radium-228                            | EPA 9320                 | <b>0.831 ± 0.405 (0.681)</b><br><b>C:68% T:88%</b> | pCi/L | 05/08/23 11:36 | 15262-20-1 |      |
| Pace Analytical Services - Greensburg |                          |  |       |                |            |      |
| Total Radium                          | Total Radium Calculation | <b>1.21 ± 0.663 (1.07)</b>                         | pCi/L | 05/17/23 16:44 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06638 MW-8 MS**      **Lab ID: 30580435018**      Collected: 04/03/23 09:42      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters | Method                                | Act ± Unc (MDC) Carr Trac                        | Units | Analyzed       | CAS No.    | Qual |
|------------|---------------------------------------|--|-------|----------------|------------|------|
|            | Pace Analytical Services - Greensburg |  |       |                |            |      |
| Radium-226 | EPA 9315                              | <b>100.89 %REC ± NA (NA)</b><br><b>C:NA T:NA</b> | pCi/L | 05/16/23 18:52 | 13982-63-3 |      |
|            | Pace Analytical Services - Greensburg |  |       |                |            |      |
| Radium-228 | EPA 9320                              | <b>68.62 %REC ± NA (NA)</b><br><b>C:NA T:NA</b>  | pCi/L | 05/08/23 11:39 | 15262-20-1 |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06638 MW-8 MSD**      **Lab ID: 30580435019**      Collected: 04/03/23 09:42      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters                            | Method   | Act ± Unc (MDC) Carr Trac  | Units | Analyzed       | CAS No.    | Qual |
|---------------------------------------|----------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg |          |  |       |                |            |      |
| Radium-226                            | EPA 9315 | <b>105.86 %REC 4.81RPD ±</b><br><b>NA (NA)</b><br><b>C:NA T:NA</b> | pCi/L | 05/16/23 18:53 | 13982-63-3 |      |
| Pace Analytical Services - Greensburg |          |  |       |                |            |      |
| Radium-228                            | EPA 9320 | <b>79.39 %REC 14.56RPD ±</b><br><b>NA (NA)</b><br><b>C:NA T:NA</b> | pCi/L | 05/08/23 11:39 | 15262-20-1 |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06639 MW-10**      **Lab ID: 30580435020**      Collected: 04/03/23 12:42      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters                            | Method                   | Act ± Unc (MDC) Carr Trac                           | Units | Analyzed       | CAS No.    | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Radium-226                            | EPA 9315                 | <b>0.588U ± 0.374 (0.640)</b><br><b>C:80% T:NA</b>  | pCi/L | 05/16/23 19:04 | 13982-63-3 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Radium-228                            | EPA 9320                 | <b>0.162U ± 0.250 (0.539)</b><br><b>C:82% T:89%</b> | pCi/L | 05/03/23 15:21 | 15262-20-1 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Total Radium                          | Total Radium Calculation | <b>0.750U ± 0.624 (1.18)</b>                        | pCi/L | 05/17/23 16:37 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06640 MW-8V**      **Lab ID: 30580435021**      Collected: 04/03/23 15:40      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters                            | Method                   | Act ± Unc (MDC) Carr Trac                           | Units | Analyzed       | CAS No.    | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Radium-226                            | EPA 9315                 | <b>0.529U ± 0.347 (0.570)</b><br><b>C:73% T:NA</b>  | pCi/L | 05/16/23 19:04 | 13982-63-3 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Radium-228                            | EPA 9320                 | <b>0.266U ± 0.300 (0.628)</b><br><b>C:81% T:91%</b> | pCi/L | 05/03/23 15:21 | 15262-20-1 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Total Radium                          | Total Radium Calculation | <b>0.795U ± 0.647 (1.20)</b>                        | pCi/L | 05/17/23 16:37 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06641 MW-9**      **Lab ID: 30580435022**      Collected: 04/04/23 08:47      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters   | Method                                | Act ± Unc (MDC) Carr Trac                           | Units | Analyzed       | CAS No.    | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
|              | Pace Analytical Services - Greensburg |   |       |                |            |      |
| Radium-226   | EPA 9315                              | <b>0.921 ± 0.375 (0.407)</b><br><b>C:92% T:NA</b>   | pCi/L | 05/16/23 19:04 | 13982-63-3 |      |
|              | Pace Analytical Services - Greensburg |   |       |                |            |      |
| Radium-228   | EPA 9320                              | <b>0.126U ± 0.313 (0.699)</b><br><b>C:77% T:87%</b> | pCi/L | 05/03/23 15:21 | 15262-20-1 |      |
|              | Pace Analytical Services - Greensburg |   |       |                |            |      |
| Total Radium | Total Radium Calculation              | <b>1.05U ± 0.688 (1.11)</b>                         | pCi/L | 05/17/23 16:37 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06642 MW-9 Dup**      **Lab ID: 30580435023**      Collected: 04/04/23 08:47      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters   | Method                                | Act ± Unc (MDC) Carr Trac                           | Units | Analyzed       | CAS No.    | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
|              | Pace Analytical Services - Greensburg |   |       |                |            |      |
| Radium-226   | EPA 9315                              | <b>0.471 ± 0.305 (0.462)</b><br><b>C:75% T:NA</b>   | pCi/L | 05/16/23 19:04 | 13982-63-3 |      |
|              | Pace Analytical Services - Greensburg |   |       |                |            |      |
| Radium-228   | EPA 9320                              | <b>0.608U ± 0.365 (0.671)</b><br><b>C:76% T:88%</b> | pCi/L | 05/03/23 15:21 | 15262-20-1 |      |
|              | Pace Analytical Services - Greensburg |   |       |                |            |      |
| Total Radium | Total Radium Calculation              | <b>1.08U ± 0.670 (1.13)</b>                         | pCi/L | 05/17/23 16:37 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06643 FB-3**      **Lab ID: 30580435024**      Collected: 04/04/23 09:20      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters                            | Method                   | Act ± Unc (MDC) Carr Trac                           | Units | Analyzed       | CAS No.    | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Radium-226                            | EPA 9315                 | <b>0.0836U ± 0.172 (0.401)</b><br><b>C:88% T:NA</b> | pCi/L | 05/16/23 18:53 | 13982-63-3 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Radium-228                            | EPA 9320                 | <b>0.433U ± 0.341 (0.674)</b><br><b>C:71% T:94%</b> | pCi/L | 05/08/23 11:42 | 15262-20-1 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Total Radium                          | Total Radium Calculation | <b>0.517U ± 0.513 (1.08)</b>                        | pCi/L | 05/17/23 16:44 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06782 MW-11**      **Lab ID: 30580435025**      Collected: 04/04/23 11:25      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters                            | Method                   | Act ± Unc (MDC) Carr Trac                           | Units | Analyzed       | CAS No.    | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Radium-226                            | EPA 9315                 | <b>0.363U ± 0.268 (0.455)</b><br><b>C:87% T:NA</b>  | pCi/L | 05/16/23 18:53 | 13982-63-3 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Radium-228                            | EPA 9320                 | <b>0.199U ± 0.331 (0.721)</b><br><b>C:68% T:88%</b> | pCi/L | 05/08/23 11:39 | 15262-20-1 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Total Radium                          | Total Radium Calculation | <b>0.562U ± 0.599 (1.18)</b>                        | pCi/L | 05/17/23 16:44 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06783 MW-12V**      **Lab ID: 30580435026**      Collected: 04/04/23 12:35      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters                            | Method                   | Act ± Unc (MDC) Carr Trac                           | Units | Analyzed       | CAS No.    | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Radium-226                            | EPA 9315                 | <b>0.903 ± 0.369 (0.384)</b><br><b>C:89% T:NA</b>   | pCi/L | 05/16/23 18:53 | 13982-63-3 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Radium-228                            | EPA 9320                 | <b>0.574U ± 0.359 (0.667)</b><br><b>C:71% T:92%</b> | pCi/L | 05/08/23 11:39 | 15262-20-1 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Total Radium                          | Total Radium Calculation | <b>1.48 ± 0.728 (1.05)</b>                          | pCi/L | 05/17/23 16:44 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06784 MW-12V Dup**      **Lab ID: 30580435027**      Collected: 04/04/23 12:35      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters                            | Method                   | Act ± Unc (MDC) Carr Trac                          | Units | Analyzed       | CAS No.    | Qual |
|---------------------------------------|--------------------------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg |                          |  |       |                |            |      |
| Radium-226                            | EPA 9315                 | <b>0.544 ± 0.303 (0.393)</b><br><b>C:82% T:NA</b>  | pCi/L | 05/16/23 18:53 | 13982-63-3 |      |
| Pace Analytical Services - Greensburg |                          |  |       |                |            |      |
| Radium-228                            | EPA 9320                 | <b>0.949 ± 0.459 (0.784)</b><br><b>C:67% T:87%</b> | pCi/L | 05/08/23 11:39 | 15262-20-1 |      |
| Pace Analytical Services - Greensburg |                          |  |       |                |            |      |
| Total Radium                          | Total Radium Calculation | <b>1.49 ± 0.762 (1.18)</b>                         | pCi/L | 05/17/23 16:44 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06785 MW-12**      **Lab ID: 30580435028**      Collected: 04/04/23 13:45      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters                            | Method                   | Act ± Unc (MDC) Carr Trac                          | Units | Analyzed       | CAS No.    | Qual |
|---------------------------------------|--------------------------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg |                          |  |       |                |            |      |
| Radium-226                            | EPA 9315                 | <b>0.626 ± 0.309 (0.361)</b><br><b>C:92% T:NA</b>  | pCi/L | 05/17/23 08:31 | 13982-63-3 |      |
| Pace Analytical Services - Greensburg |                          |  |       |                |            |      |
| Radium-228                            | EPA 9320                 | <b>0.793 ± 0.429 (0.751)</b><br><b>C:76% T:71%</b> | pCi/L | 05/09/23 11:59 | 15262-20-1 |      |
| Pace Analytical Services - Greensburg |                          |  |       |                |            |      |
| Total Radium                          | Total Radium Calculation | <b>1.42 ± 0.738 (1.11)</b>                         | pCi/L | 05/17/23 16:35 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06785 MW-12 MS**      **Lab ID: 30580435029**      Collected: 04/04/23 13:45      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters | Method                                | Act ± Unc (MDC) Carr Trac                       | Units | Analyzed       | CAS No.    | Qual |
|------------|---------------------------------------|---|-------|----------------|------------|------|
|            | Pace Analytical Services - Greensburg |   |       |                |            |      |
| Radium-226 | EPA 9315                              | <b>96.81 %REC ± NA (NA)</b><br><b>C:NA T:NA</b> | pCi/L | 05/17/23 08:31 | 13982-63-3 |      |
|            | Pace Analytical Services - Greensburg |   |       |                |            |      |
| Radium-228 | EPA 9320                              | <b>64.52 %REC ± NA (NA)</b><br><b>C:NA T:NA</b> | pCi/L | 05/09/23 12:00 | 15262-20-1 |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06785 MW-12 MSD**      **Lab ID: 30580435030**      Collected: 04/04/23 13:45      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters                            | Method   | Act ± Unc (MDC) Carr Trac   | Units | Analyzed       | CAS No.    | Qual |
|---------------------------------------|----------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg |          |   |       |                |            |      |
| Radium-226                            | EPA 9315 | <b>113.71 %REC 16.06RPD ±</b><br><b>NA (NA)</b><br><b>C:NA T:NA</b> | pCi/L | 05/17/23 08:31 | 13982-63-3 |      |
| Pace Analytical Services - Greensburg |          |   |       |                |            |      |
| Radium-228                            | EPA 9320 | <b>70.53 %REC 8.89RPD ± NA</b><br><b>(NA)</b><br><b>C:NA T:NA</b>   | pCi/L | 05/09/23 12:00 | 15262-20-1 |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06786 MW-13**      **Lab ID: 30580435031**      Collected: 04/04/23 15:05      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters                            | Method                   | Act ± Unc (MDC) Carr Trac                           | Units | Analyzed       | CAS No.    | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Radium-226                            | EPA 9315                 | <b>0.373U ± 0.261 (0.410)</b><br><b>C:87% T:NA</b>  | pCi/L | 05/16/23 18:53 | 13982-63-3 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Radium-228                            | EPA 9320                 | <b>0.512U ± 0.365 (0.701)</b><br><b>C:68% T:88%</b> | pCi/L | 05/08/23 11:39 | 15262-20-1 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Total Radium                          | Total Radium Calculation | <b>0.885U ± 0.626 (1.11)</b>                        | pCi/L | 05/17/23 16:44 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06787 MW-13V**      **Lab ID: 30580435032**      Collected: 04/04/23 15:50      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters                            | Method                   | Act ± Unc (MDC) Carr Trac                           | Units | Analyzed       | CAS No.    | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Radium-226                            | EPA 9315                 | <b>0.695 ± 0.384 (0.623)</b><br><b>C:91% T:NA</b>   | pCi/L | 05/17/23 08:25 | 13982-63-3 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Radium-228                            | EPA 9320                 | <b>0.262U ± 0.331 (0.700)</b><br><b>C:69% T:89%</b> | pCi/L | 05/08/23 11:39 | 15262-20-1 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Total Radium                          | Total Radium Calculation | <b>0.957U ± 0.715 (1.32)</b>                        | pCi/L | 05/17/23 16:44 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06788 FB-2**      **Lab ID: 30580435033**      Collected: 04/04/23 16:20      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters                            | Method                   | Act ± Unc (MDC) Carr Trac                           | Units | Analyzed       | CAS No.    | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Radium-226                            | EPA 9315                 | <b>0.396U ± 0.269 (0.432)</b><br><b>C:95% T:NA</b>  | pCi/L | 05/17/23 08:27 | 13982-63-3 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Radium-228                            | EPA 9320                 | <b>0.104U ± 0.315 (0.710)</b><br><b>C:71% T:88%</b> | pCi/L | 05/08/23 11:39 | 15262-20-1 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Total Radium                          | Total Radium Calculation | <b>0.500U ± 0.584 (1.14)</b>                        | pCi/L | 05/17/23 16:44 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06841 MW-23H**      **Lab ID: 30580435034**      Collected: 04/04/23 11:15      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters   | Method                                | Act ± Unc (MDC) Carr Trac                           | Units | Analyzed       | CAS No.    | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
|              | Pace Analytical Services - Greensburg |   |       |                |            |      |
| Radium-226   | EPA 9315                              | <b>0.519 ± 0.298 (0.423)</b><br><b>C:87% T:NA</b>   | pCi/L | 05/17/23 08:27 | 13982-63-3 |      |
|              | Pace Analytical Services - Greensburg |   |       |                |            |      |
| Radium-228   | EPA 9320                              | <b>0.401U ± 0.364 (0.734)</b><br><b>C:66% T:86%</b> | pCi/L | 05/08/23 11:40 | 15262-20-1 |      |
|              | Pace Analytical Services - Greensburg |   |       |                |            |      |
| Total Radium | Total Radium Calculation              | <b>0.920U ± 0.662 (1.16)</b>                        | pCi/L | 05/17/23 16:44 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06842 MW-23V**      **Lab ID: 30580435035**      Collected: 04/04/23 11:55      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters                            | Method                   | Act ± Unc (MDC) Carr Trac                          | Units | Analyzed       | CAS No.    | Qual |
|---------------------------------------|--------------------------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg |                          |  |       |                |            |      |
| Radium-226                            | EPA 9315                 | <b>0.920 ± 0.362 (0.356)</b><br><b>C:91% T:NA</b>  | pCi/L | 05/17/23 08:27 | 13982-63-3 |      |
| Pace Analytical Services - Greensburg |                          |  |       |                |            |      |
| Radium-228                            | EPA 9320                 | <b>0.994 ± 0.436 (0.685)</b><br><b>C:69% T:82%</b> | pCi/L | 05/08/23 11:40 | 15262-20-1 |      |
| Pace Analytical Services - Greensburg |                          |  |       |                |            |      |
| Total Radium                          | Total Radium Calculation | <b>1.91 ± 0.798 (1.04)</b>                         | pCi/L | 05/17/23 16:44 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06843 MW-17V**      **Lab ID: 30580435036**      Collected: 04/04/23 12:50      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters   | Method                                | Act ± Unc (MDC) Carr Trac                        | Units | Analyzed       | CAS No.    | Qual |
|--------------|---------------------------------------|--|-------|----------------|------------|------|
|              | Pace Analytical Services - Greensburg |  |       |                |            |      |
| Radium-226   | EPA 9315                              | <b>5.21 ± 1.07 (0.429)</b><br><b>C:97% T:NA</b>  | pCi/L | 05/17/23 08:28 | 13982-63-3 |      |
|              | Pace Analytical Services - Greensburg |  |       |                |            |      |
| Radium-228   | EPA 9320                              | <b>4.38 ± 1.01 (0.697)</b><br><b>C:69% T:84%</b> | pCi/L | 05/08/23 11:40 | 15262-20-1 |      |
|              | Pace Analytical Services - Greensburg |  |       |                |            |      |
| Total Radium | Total Radium Calculation              | <b>9.59 ± 2.08 (1.13)</b>                        | pCi/L | 05/17/23 16:44 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06844 MW-17H**      **Lab ID: 30580435037**      Collected: 04/04/23 13:36      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters                            | Method                   | Act ± Unc (MDC) Carr Trac                           | Units | Analyzed       | CAS No.    | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Radium-226                            | EPA 9315                 | <b>0.625 ± 0.308 (0.334)</b><br><b>C:84% T:NA</b>   | pCi/L | 05/17/23 08:28 | 13982-63-3 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Radium-228                            | EPA 9320                 | <b>0.461U ± 0.380 (0.756)</b><br><b>C:70% T:84%</b> | pCi/L | 05/08/23 11:40 | 15262-20-1 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Total Radium                          | Total Radium Calculation | <b>1.09U ± 0.688 (1.09)</b>                         | pCi/L | 05/17/23 16:44 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06845 MW-14V**      **Lab ID: 30580435038**      Collected: 04/04/23 15:05      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters   | Method                                | Act ± Unc (MDC) Carr Trac                           | Units | Analyzed       | CAS No.    | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
|              | Pace Analytical Services - Greensburg |   |       |                |            |      |
| Radium-226   | EPA 9315                              | <b>0.500 ± 0.303 (0.471)</b><br><b>C:93% T:NA</b>   | pCi/L | 05/17/23 08:29 | 13982-63-3 |      |
|              | Pace Analytical Services - Greensburg |   |       |                |            |      |
| Radium-228   | EPA 9320                              | <b>0.727U ± 0.430 (0.788)</b><br><b>C:66% T:85%</b> | pCi/L | 05/08/23 11:40 | 15262-20-1 |      |
|              | Pace Analytical Services - Greensburg |   |       |                |            |      |
| Total Radium | Total Radium Calculation              | <b>1.23U ± 0.733 (1.26)</b>                         | pCi/L | 05/17/23 16:44 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06846 MW-16**      **Lab ID: 30580435039**      Collected: 04/05/23 09:45      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters   | Method                                | Act ± Unc (MDC) Carr Trac                          | Units | Analyzed       | CAS No.    | Qual |
|--------------|---------------------------------------|--|-------|----------------|------------|------|
|              | Pace Analytical Services - Greensburg |  |       |                |            |      |
| Radium-226   | EPA 9315                              | <b>0.709 ± 0.365 (0.487)</b><br><b>C:79% T:NA</b>  | pCi/L | 05/17/23 08:29 | 13982-63-3 |      |
|              | Pace Analytical Services - Greensburg |  |       |                |            |      |
| Radium-228   | EPA 9320                              | <b>0.790 ± 0.404 (0.690)</b><br><b>C:67% T:89%</b> | pCi/L | 05/08/23 11:40 | 15262-20-1 |      |
|              | Pace Analytical Services - Greensburg |  |       |                |            |      |
| Total Radium | Total Radium Calculation              | <b>1.50 ± 0.769 (1.18)</b>                         | pCi/L | 05/17/23 16:44 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06847 MW-5V**      **Lab ID: 30580435040**      Collected: 04/04/23 11:11      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters   | Method                                | Act ± Unc (MDC) Carr Trac                          | Units | Analyzed       | CAS No.    | Qual |
|--------------|---------------------------------------|--|-------|----------------|------------|------|
|              | Pace Analytical Services - Greensburg |  |       |                |            |      |
| Radium-226   | EPA 9315                              | <b>0.333U ± 0.247 (0.415)</b><br><b>C:94% T:NA</b> | pCi/L | 05/17/23 08:29 | 13982-63-3 |      |
|              | Pace Analytical Services - Greensburg |  |       |                |            |      |
| Radium-228   | EPA 9320                              | <b>0.797 ± 0.429 (0.756)</b><br><b>C:64% T:91%</b> | pCi/L | 05/08/23 11:41 | 15262-20-1 |      |
|              | Pace Analytical Services - Greensburg |  |       |                |            |      |
| Total Radium | Total Radium Calculation              | <b>1.13U ± 0.676 (1.17)</b>                        | pCi/L | 05/17/23 16:44 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06848 MW-5**      **Lab ID: 30580435041**      Collected: 04/04/23 12:02      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters   | Method                                | Act ± Unc (MDC) Carr Trac                          | Units | Analyzed       | CAS No.    | Qual |
|--------------|---------------------------------------|--|-------|----------------|------------|------|
|              | Pace Analytical Services - Greensburg |  |       |                |            |      |
| Radium-226   | EPA 9315                              | <b>0.288U ± 0.219 (0.349)</b><br><b>C:90% T:NA</b> | pCi/L | 05/17/23 08:29 | 13982-63-3 |      |
|              | Pace Analytical Services - Greensburg |  |       |                |            |      |
| Radium-228   | EPA 9320                              | <b>0.859 ± 0.350 (0.528)</b><br><b>C:81% T:93%</b> | pCi/L | 05/09/23 12:00 | 15262-20-1 |      |
|              | Pace Analytical Services - Greensburg |  |       |                |            |      |
| Total Radium | Total Radium Calculation              | <b>1.15 ± 0.569 (0.877)</b>                        | pCi/L | 05/17/23 16:44 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06849 MW-4**      **Lab ID: 30580435042**      Collected: 04/04/23 13:01      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters                            | Method                   | Act ± Unc (MDC) Carr Trac                          | Units | Analyzed       | CAS No.    | Qual |
|---------------------------------------|--------------------------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg |                          |  |       |                |            |      |
| Radium-226                            | EPA 9315                 | <b>0.882 ± 0.371 (0.416)</b><br><b>C:89% T:NA</b>  | pCi/L | 05/17/23 08:30 | 13982-63-3 |      |
| Pace Analytical Services - Greensburg |                          |  |       |                |            |      |
| Radium-228                            | EPA 9320                 | <b>0.938 ± 0.383 (0.591)</b><br><b>C:79% T:92%</b> | pCi/L | 05/09/23 12:00 | 15262-20-1 |      |
| Pace Analytical Services - Greensburg |                          |  |       |                |            |      |
| Total Radium                          | Total Radium Calculation | <b>1.82 ± 0.754 (1.01)</b>                         | pCi/L | 05/17/23 16:44 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06850 MW-3**      **Lab ID: 30580435043**      Collected: 04/04/23 14:14      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters                            | Method                   | Act ± Unc (MDC) Carr Trac                           | Units | Analyzed       | CAS No.    | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Radium-226                            | EPA 9315                 | <b>0.242U ± 0.211 (0.374)</b><br><b>C:91% T:NA</b>  | pCi/L | 05/17/23 08:30 | 13982-63-3 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Radium-228                            | EPA 9320                 | <b>0.237U ± 0.288 (0.609)</b><br><b>C:78% T:95%</b> | pCi/L | 05/09/23 12:00 | 15262-20-1 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Total Radium                          | Total Radium Calculation | <b>0.479U ± 0.499 (0.983)</b>                       | pCi/L | 05/17/23 16:44 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06851 MW-1V**      **Lab ID: 30580435044**      Collected: 04/04/23 15:12      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters   | Method                                | Act ± Unc (MDC) Carr Trac                         | Units | Analyzed       | CAS No.    | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
|              | Pace Analytical Services - Greensburg |   |       |                |            |      |
| Radium-226   | EPA 9315                              | <b>0.618 ± 0.313 (0.397)</b><br><b>C:93% T:NA</b> | pCi/L | 05/17/23 08:31 | 13982-63-3 |      |
|              | Pace Analytical Services - Greensburg |   |       |                |            |      |
| Radium-228   | EPA 9320                              | <b>1.00 ± 0.411 (0.642)</b><br><b>C:78% T:90%</b> | pCi/L | 05/09/23 12:00 | 15262-20-1 |      |
|              | Pace Analytical Services - Greensburg |   |       |                |            |      |
| Total Radium | Total Radium Calculation              | <b>1.62 ± 0.724 (1.04)</b>                        | pCi/L | 05/17/23 16:35 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06852 MW-16V**      **Lab ID: 30580435045**      Collected: 04/04/23 16:31      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters   | Method                                | Act ± Unc (MDC) Carr Trac                           | Units | Analyzed       | CAS No.    | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
|              | Pace Analytical Services - Greensburg |   |       |                |            |      |
| Radium-226   | EPA 9315                              | <b>0.675 ± 0.325 (0.423)</b><br><b>C:93% T:NA</b>   | pCi/L | 05/17/23 08:32 | 13982-63-3 |      |
|              | Pace Analytical Services - Greensburg |   |       |                |            |      |
| Radium-228   | EPA 9320                              | <b>0.390U ± 0.280 (0.527)</b><br><b>C:78% T:88%</b> | pCi/L | 05/09/23 12:00 | 15262-20-1 |      |
|              | Pace Analytical Services - Greensburg |   |       |                |            |      |
| Total Radium | Total Radium Calculation              | <b>1.07 ± 0.605 (0.950)</b>                         | pCi/L | 05/17/23 16:35 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06853 MW-18H**      **Lab ID: 30580435046**      Collected: 04/05/23 09:23      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters                            | Method                   | Act ± Unc (MDC) Carr Trac                           | Units | Analyzed       | CAS No.    | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Radium-226                            | EPA 9315                 | <b>0.169U ± 0.189 (0.372)</b><br><b>C:94% T:NA</b>  | pCi/L | 05/17/23 08:32 | 13982-63-3 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Radium-228                            | EPA 9320                 | <b>0.506U ± 0.307 (0.552)</b><br><b>C:74% T:91%</b> | pCi/L | 05/09/23 12:00 | 15262-20-1 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Total Radium                          | Total Radium Calculation | <b>0.675U ± 0.496 (0.924)</b>                       | pCi/L | 05/17/23 16:35 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06854 MW-14**      **Lab ID: 30580435047**      Collected: 04/05/23 11:35      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters   | Method                                | Act ± Unc (MDC) Carr Trac                           | Units | Analyzed       | CAS No.    | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
|              | Pace Analytical Services - Greensburg |   |       |                |            |      |
| Radium-226   | EPA 9315                              | <b>0.0241U ± 0.127 (0.341)</b><br><b>C:94% T:NA</b> | pCi/L | 05/17/23 08:32 | 13982-63-3 |      |
|              | Pace Analytical Services - Greensburg |   |       |                |            |      |
| Radium-228   | EPA 9320                              | <b>0.722 ± 0.328 (0.533)</b><br><b>C:82% T:96%</b>  | pCi/L | 05/09/23 12:00 | 15262-20-1 |      |
|              | Pace Analytical Services - Greensburg |   |       |                |            |      |
| Total Radium | Total Radium Calculation              | <b>0.746U ± 0.455 (0.874)</b>                       | pCi/L | 05/17/23 16:35 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD06855 FB-4**      **Lab ID: 30580435048**      Collected: 04/05/23 12:30      Received: 04/19/23 10:25      Matrix: Water  
PWS:      Site ID:      Sample Type:

| Parameters                            | Method                   | Act ± Unc (MDC) Carr Trac                           | Units | Analyzed       | CAS No.    | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Radium-226                            | EPA 9315                 | <b>0.288U ± 0.227 (0.380)</b><br><b>C:92% T:NA</b>  | pCi/L | 05/17/23 08:32 | 13982-63-3 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Radium-228                            | EPA 9320                 | <b>0.566U ± 0.334 (0.606)</b><br><b>C:81% T:90%</b> | pCi/L | 05/09/23 15:02 | 15262-20-1 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Total Radium                          | Total Radium Calculation | <b>0.854U ± 0.561 (0.986)</b>                       | pCi/L | 05/17/23 16:35 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD08117 MW-20V**      **Lab ID: 30584315001**      Collected: 04/24/23 12:58      Received: 05/03/23 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                 | <b>0.211U ± 0.238 (0.480)</b><br><b>C:86% T:NA</b>  | pCi/L | 06/01/23 08:08 | 13982-63-3 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Radium-228                            | EPA 9320                 | <b>0.394U ± 0.337 (0.676)</b><br><b>C:88% T:82%</b> | pCi/L | 05/22/23 15:57 | 15262-20-1 |      |
| Pace Analytical Services - Greensburg |                          |   |       |                |            |      |
| Total Radium                          | Total Radium Calculation | <b>0.605U ± 0.575 (1.16)</b>                        | pCi/L | 06/01/23 17:02 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD08118 MW-22H**      **Lab ID: 30584315002**      Collected: 04/24/23 14:05      Received: 05/03/23 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                              | <b>0.489 ± 0.305 (0.480)</b><br><b>C:89% T:NA</b>   | pCi/L | 06/01/23 08:08 | 13982-63-3 |      |
|              | Pace Analytical Services - Greensburg |   |       |                |            |      |
| Radium-228   | EPA 9320                              | <b>0.512U ± 0.347 (0.660)</b><br><b>C:82% T:87%</b> | pCi/L | 05/22/23 15:57 | 15262-20-1 |      |
|              | Pace Analytical Services - Greensburg |   |       |                |            |      |
| Total Radium | Total Radium Calculation              | <b>1.00U ± 0.652 (1.14)</b>                         | pCi/L | 06/01/23 17:02 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD08119 MW-15V**      **Lab ID: 30584315003**      Collected: 04/24/23 15:00      Received: 05/03/23 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                              | <b>1.41 ± 0.482 (0.453)</b><br><b>C:92% T:NA</b>   | pCi/L | 06/01/23 08:08 | 13982-63-3 |      |
|              | Pace Analytical Services - Greensburg |  |       |                |            |      |
| Radium-228   | EPA 9320                              | <b>0.606 ± 0.307 (0.508)</b><br><b>C:83% T:91%</b> | pCi/L | 05/22/23 15:58 | 15262-20-1 |      |
|              | Pace Analytical Services - Greensburg |  |       |                |            |      |
| Total Radium | Total Radium Calculation              | <b>2.02 ± 0.789 (0.961)</b>                        | pCi/L | 06/01/23 17:02 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD08120 MW-20H**      **Lab ID: 30584315004**      Collected: 04/24/23 16:06      Received: 05/03/23 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                              | <b>0.532 ± 0.279 (0.333)</b><br><b>C:93% T:NA</b>  | pCi/L | 06/01/23 08:09 | 13982-63-3 |      |
|              | Pace Analytical Services - Greensburg |  |       |                |            |      |
| Radium-228   | EPA 9320                              | <b>0.642 ± 0.303 (0.480)</b><br><b>C:83% T:93%</b> | pCi/L | 05/22/23 15:58 | 15262-20-1 |      |
|              | Pace Analytical Services - Greensburg |  |       |                |            |      |
| Total Radium | Total Radium Calculation              | <b>1.17 ± 0.582 (0.813)</b>                        | pCi/L | 06/01/23 17:02 | 7440-14-4  |      |

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

**Sample: BD08121 MW-19H**      **Lab ID: 30584315005**      Collected: 04/24/23 17:55      Received: 05/03/23 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                              | <b>0.547 ± 0.305 (0.435)</b><br><b>C:88% T:NA</b>  | pCi/L | 06/01/23 08:09 | 13982-63-3 |      |
|              | Pace Analytical Services - Greensburg |  |       |                |            |      |
| Radium-228   | EPA 9320                              | <b>0.799 ± 0.371 (0.615)</b><br><b>C:83% T:89%</b> | pCi/L | 05/22/23 15:58 | 15262-20-1 |      |
|              | Pace Analytical Services - Greensburg |  |       |                |            |      |
| Total Radium | Total Radium Calculation              | <b>1.35 ± 0.676 (1.05)</b>                         | pCi/L | 06/01/23 17:02 | 7440-14-4  |      |

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

QC Batch: 582721

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30580435001, 30580435002, 30580435003, 30580435004, 30580435005, 30580435006, 30580435007, 30580435008, 30580435009, 30580435010, 30580435011, 30580435012, 30580435013, 30580435014, 30580435015, 30580435016, 30580435020, 30580435021, 30580435022, 30580435023

METHOD BLANK: 2829963

Matrix: Water

Associated Lab Samples: 30580435001, 30580435002, 30580435003, 30580435004, 30580435005, 30580435006, 30580435007, 30580435008, 30580435009, 30580435010, 30580435011, 30580435012, 30580435013, 30580435014, 30580435015, 30580435016, 30580435020, 30580435021, 30580435022, 30580435023

| Parameter  | Act ± Unc (MDC) Carr Trac         | Units | Analyzed       | Qualifiers |
|------------|-----------------------------------|-------|----------------|------------|
| Radium-228 | 0.676 ± 0.320 (0.523) C:83% T:90% | pCi/L | 05/03/23 11:24 |            |

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

QC Batch: 586015

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30584315001, 30584315002, 30584315003, 30584315004, 30584315005

METHOD BLANK: 2846888

Matrix: Water

Associated Lab Samples: 30584315001, 30584315002, 30584315003, 30584315004, 30584315005

| Parameter  | Act ± Unc (MDC) Carr Trac        | Units | Analyzed       | Qualifiers |
|------------|----------------------------------|-------|----------------|------------|
| Radium-226 | 0.194 ± 0.133 (0.236) C:94% T:NA | pCi/L | 06/01/23 08:55 |            |

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

QC Batch: 582723

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30580435028, 30580435029, 30580435030, 30580435041, 30580435042, 30580435043, 30580435044, 30580435045, 30580435046, 30580435047, 30580435048

METHOD BLANK: 2829969

Matrix: Water

Associated Lab Samples: 30580435028, 30580435029, 30580435030, 30580435041, 30580435042, 30580435043, 30580435044, 30580435045, 30580435046, 30580435047, 30580435048

| Parameter  | Act ± Unc (MDC) Carr Trac         | Units | Analyzed       | Qualifiers |
|------------|-----------------------------------|-------|----------------|------------|
| Radium-228 | 0.978 ± 0.391 (0.591) C:78% T:92% | pCi/L | 05/09/23 11:59 |            |

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

QC Batch: 588032

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30584315001, 30584315002, 30584315003, 30584315004, 30584315005

METHOD BLANK: 2857357

Matrix: Water

Associated Lab Samples: 30584315001, 30584315002, 30584315003, 30584315004, 30584315005

| Parameter  | Act ± Unc (MDC) Carr Trac         | Units | Analyzed       | Qualifiers |
|------------|-----------------------------------|-------|----------------|------------|
| Radium-228 | 0.120 ± 0.284 (0.634) C:84% T:90% | pCi/L | 05/22/23 15:57 |            |

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

QC Batch: 582598

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30580435028, 30580435029, 30580435030, 30580435044, 30580435045, 30580435046, 30580435047, 30580435048

METHOD BLANK: 2829634

Matrix: Water

Associated Lab Samples: 30580435028, 30580435029, 30580435030, 30580435044, 30580435045, 30580435046, 30580435047, 30580435048

| Parameter  | Act ± Unc (MDC) Carr Trac         | Units | Analyzed       | Qualifiers |
|------------|-----------------------------------|-------|----------------|------------|
| Radium-226 | 0.101 ± 0.0856 (0.149) C:96% T:NA | pCi/L | 05/17/23 08:31 |            |

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: WMWBARAP\_1404  
Pace Project No.: 30580435

|                         |  |                       |                                       |
|-------------------------|--|-----------------------|---------------------------------------|
| QC Batch:               | 582596   | Analysis Method:      | EPA 9315                              |
| QC Batch Method:        | EPA 9315   | Analysis Description: | 9315 Total Radium                     |
|                         |  | Laboratory:           | Pace Analytical Services - Greensburg |
| Associated Lab Samples: | 30580435001, 30580435002, 30580435003, 30580435004, 30580435005, 30580435006, 30580435007, 30580435008, 30580435009, 30580435010, 30580435011, 30580435012, 30580435013, 30580435014, 30580435015, 30580435016, 30580435020, 30580435021, 30580435022, 30580435023 |                       |                                       |

|                         |  |         |       |
|-------------------------|--|---------|-------|
| METHOD BLANK:           | 2829632  | Matrix: | Water |
| Associated Lab Samples: | 30580435001, 30580435002, 30580435003, 30580435004, 30580435005, 30580435006, 30580435007, 30580435008, 30580435009, 30580435010, 30580435011, 30580435012, 30580435013, 30580435014, 30580435015, 30580435016, 30580435020, 30580435021, 30580435022, 30580435023 |         |       |

| Parameter  | Act ± Unc (MDC) Carr Trac        | Units | Analyzed       | Qualifiers |
|------------|----------------------------------|-------|----------------|------------|
| Radium-226 | 0.113 ± 0.115 (0.223) C:68% T:NA | pCi/L | 05/16/23 18:44 |            |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

QC Batch: 582722

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30580435017, 30580435018, 30580435019, 30580435024, 30580435025, 30580435026, 30580435027, 30580435031, 30580435032, 30580435033, 30580435034, 30580435035, 30580435036, 30580435037, 30580435038, 30580435039, 30580435040

METHOD BLANK: 2829964

Matrix: Water

Associated Lab Samples: 30580435017, 30580435018, 30580435019, 30580435024, 30580435025, 30580435026, 30580435027, 30580435031, 30580435032, 30580435033, 30580435034, 30580435035, 30580435036, 30580435037, 30580435038, 30580435039, 30580435040

| Parameter  | Act ± Unc (MDC) Carr Trac         | Units | Analyzed       | Qualifiers |
|------------|-----------------------------------|-------|----------------|------------|
| Radium-228 | 0.488 ± 0.311 (0.569) C:71% T:89% | pCi/L | 05/08/23 11:36 |            |

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWBARAP\_1404

Pace Project No.: 30580435

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|                  |          |                       |                                       |
|------------------|----------|-----------------------|---------------------------------------|
| QC Batch:        | 582597   | Analysis Method:      | EPA 9315                              |
| QC Batch Method: | EPA 9315 | Analysis Description: | 9315 Total Radium                     |
|                  |          | Laboratory:           | Pace Analytical Services - Greensburg |

Associated Lab Samples: 30580435017, 30580435018, 30580435019, 30580435024, 30580435025, 30580435026, 30580435027, 30580435031, 30580435032, 30580435033, 30580435034, 30580435035, 30580435036, 30580435037, 30580435038, 30580435039, 30580435040, 30580435041, 30580435042, 30580435043

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METHOD BLANK: 2829633 Matrix: Water

Associated Lab Samples: 30580435017, 30580435018, 30580435019, 30580435024, 30580435025, 30580435026, 30580435027, 30580435031, 30580435032, 30580435033, 30580435034, 30580435035, 30580435036, 30580435037, 30580435038, 30580435039, 30580435040, 30580435041, 30580435042, 30580435043

| Parameter  | Act ± Unc (MDC) Carr Trac         | Units | Analyzed       | Qualifiers |
|------------|-----------------------------------|-------|----------------|------------|
| Radium-226 | 0.143 ± 0.0999 (0.157) C:88% T:NA | pCi/L | 05/16/23 18:52 |            |

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## QUALIFIERS

Project: WMWBARAP\_1404  
Pace Project No.: 30580435

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWBARAP\_1404

Pace Project No.: 30580435

| Lab ID      | Sample ID          | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|--------------------|-----------------|----------|-------------------|------------------|
| 30580435001 | BD06624 MW-15      | EPA 9315        | 582596   |                   |                  |
| 30580435002 | BD06624 MW-15 MS   | EPA 9315        | 582596   |                   |                  |
| 30580435003 | BD06624 MW-15 MSD  | EPA 9315        | 582596   |                   |                  |
| 30580435004 | BD06625 EB-1       | EPA 9315        | 582596   |                   |                  |
| 30580435005 | BD06626 MW-24H     | EPA 9315        | 582596   |                   |                  |
| 30580435006 | BD06627 MW-24H Dup | EPA 9315        | 582596   |                   |                  |
| 30580435007 | BD06628 MW-25H     | EPA 9315        | 582596   |                   |                  |
| 30580435008 | BD06629 MW-25H Dup | EPA 9315        | 582596   |                   |                  |
| 30580435009 | BD06630 MW-25V     | EPA 9315        | 582596   |                   |                  |
| 30580435010 | BD06631 MW-1       | EPA 9315        | 582596   |                   |                  |
| 30580435011 | BD06632 MW-2       | EPA 9315        | 582596   |                   |                  |
| 30580435012 | BD06633 MW-10V     | EPA 9315        | 582596   |                   |                  |
| 30580435013 | BD06634 MW-7V      | EPA 9315        | 582596   |                   |                  |
| 30580435014 | BD06635 MW-7       | EPA 9315        | 582596   |                   |                  |
| 30580435015 | BD06636 MW-6       | EPA 9315        | 582596   |                   |                  |
| 30580435016 | BD06637 FB-1       | EPA 9315        | 582596   |                   |                  |
| 30580435017 | BD06638 MW-8       | EPA 9315        | 582597   |                   |                  |
| 30580435018 | BD06638 MW-8 MS    | EPA 9315        | 582597   |                   |                  |
| 30580435019 | BD06638 MW-8 MSD   | EPA 9315        | 582597   |                   |                  |
| 30580435020 | BD06639 MW-10      | EPA 9315        | 582596   |                   |                  |
| 30580435021 | BD06640 MW-8V      | EPA 9315        | 582596   |                   |                  |
| 30580435022 | BD06641 MW-9       | EPA 9315        | 582596   |                   |                  |
| 30580435023 | BD06642 MW-9 Dup   | EPA 9315        | 582596   |                   |                  |
| 30580435024 | BD06643 FB-3       | EPA 9315        | 582597   |                   |                  |
| 30580435025 | BD06782 MW-11      | EPA 9315        | 582597   |                   |                  |
| 30580435026 | BD06783 MW-12V     | EPA 9315        | 582597   |                   |                  |
| 30580435027 | BD06784 MW-12V Dup | EPA 9315        | 582597   |                   |                  |
| 30580435028 | BD06785 MW-12      | EPA 9315        | 582598   |                   |                  |
| 30580435029 | BD06785 MW-12 MS   | EPA 9315        | 582598   |                   |                  |
| 30580435030 | BD06785 MW-12 MSD  | EPA 9315        | 582598   |                   |                  |
| 30580435031 | BD06786 MW-13      | EPA 9315        | 582597   |                   |                  |
| 30580435032 | BD06787 MW-13V     | EPA 9315        | 582597   |                   |                  |
| 30580435033 | BD06788 FB-2       | EPA 9315        | 582597   |                   |                  |
| 30580435034 | BD06841 MW-23H     | EPA 9315        | 582597   |                   |                  |
| 30580435035 | BD06842 MW-23V     | EPA 9315        | 582597   |                   |                  |
| 30580435036 | BD06843 MW-17V     | EPA 9315        | 582597   |                   |                  |
| 30580435037 | BD06844 MW-17H     | EPA 9315        | 582597   |                   |                  |
| 30580435038 | BD06845 MW-14V     | EPA 9315        | 582597   |                   |                  |
| 30580435039 | BD06846 MW-16      | EPA 9315        | 582597   |                   |                  |
| 30580435040 | BD06847 MW-5V      | EPA 9315        | 582597   |                   |                  |
| 30580435041 | BD06848 MW-5       | EPA 9315        | 582597   |                   |                  |
| 30580435042 | BD06849 MW-4       | EPA 9315        | 582597   |                   |                  |
| 30580435043 | BD06850 MW-3       | EPA 9315        | 582597   |                   |                  |
| 30580435044 | BD06851 MW-1V      | EPA 9315        | 582598   |                   |                  |
| 30580435045 | BD06852 MW-16V     | EPA 9315        | 582598   |                   |                  |
| 30580435046 | BD06853 MW-18H     | EPA 9315        | 582598   |                   |                  |

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWBARAP\_1404

Pace Project No.: 30580435

| Lab ID      | Sample ID          | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|--------------------|-----------------|----------|-------------------|------------------|
| 30580435047 | BD06854 MW-14      | EPA 9315        | 582598   |                   |                  |
| 30580435048 | BD06855 FB-4       | EPA 9315        | 582598   |                   |                  |
| 30584315001 | BD08117 MW-20V     | EPA 9315        | 586015   |                   |                  |
| 30584315002 | BD08118 MW-22H     | EPA 9315        | 586015   |                   |                  |
| 30584315003 | BD08119 MW-15V     | EPA 9315        | 586015   |                   |                  |
| 30584315004 | BD08120 MW-20H     | EPA 9315        | 586015   |                   |                  |
| 30584315005 | BD08121 MW-19H     | EPA 9315        | 586015   |                   |                  |
| 30580435001 | BD06624 MW-15      | EPA 9320        | 582721   |                   |                  |
| 30580435002 | BD06624 MW-15 MS   | EPA 9320        | 582721   |                   |                  |
| 30580435003 | BD06624 MW-15 MSD  | EPA 9320        | 582721   |                   |                  |
| 30580435004 | BD06625 EB-1       | EPA 9320        | 582721   |                   |                  |
| 30580435005 | BD06626 MW-24H     | EPA 9320        | 582721   |                   |                  |
| 30580435006 | BD06627 MW-24H Dup | EPA 9320        | 582721   |                   |                  |
| 30580435007 | BD06628 MW-25H     | EPA 9320        | 582721   |                   |                  |
| 30580435008 | BD06629 MW-25H Dup | EPA 9320        | 582721   |                   |                  |
| 30580435009 | BD06630 MW-25V     | EPA 9320        | 582721   |                   |                  |
| 30580435010 | BD06631 MW-1       | EPA 9320        | 582721   |                   |                  |
| 30580435011 | BD06632 MW-2       | EPA 9320        | 582721   |                   |                  |
| 30580435012 | BD06633 MW-10V     | EPA 9320        | 582721   |                   |                  |
| 30580435013 | BD06634 MW-7V      | EPA 9320        | 582721   |                   |                  |
| 30580435014 | BD06635 MW-7       | EPA 9320        | 582721   |                   |                  |
| 30580435015 | BD06636 MW-6       | EPA 9320        | 582721   |                   |                  |
| 30580435016 | BD06637 FB-1       | EPA 9320        | 582721   |                   |                  |
| 30580435017 | BD06638 MW-8       | EPA 9320        | 582722   |                   |                  |
| 30580435018 | BD06638 MW-8 MS    | EPA 9320        | 582722   |                   |                  |
| 30580435019 | BD06638 MW-8 MSD   | EPA 9320        | 582722   |                   |                  |
| 30580435020 | BD06639 MW-10      | EPA 9320        | 582721   |                   |                  |
| 30580435021 | BD06640 MW-8V      | EPA 9320        | 582721   |                   |                  |
| 30580435022 | BD06641 MW-9       | EPA 9320        | 582721   |                   |                  |
| 30580435023 | BD06642 MW-9 Dup   | EPA 9320        | 582721   |                   |                  |
| 30580435024 | BD06643 FB-3       | EPA 9320        | 582722   |                   |                  |
| 30580435025 | BD06782 MW-11      | EPA 9320        | 582722   |                   |                  |
| 30580435026 | BD06783 MW-12V     | EPA 9320        | 582722   |                   |                  |
| 30580435027 | BD06784 MW-12V Dup | EPA 9320        | 582722   |                   |                  |
| 30580435028 | BD06785 MW-12      | EPA 9320        | 582723   |                   |                  |
| 30580435029 | BD06785 MW-12 MS   | EPA 9320        | 582723   |                   |                  |
| 30580435030 | BD06785 MW-12 MSD  | EPA 9320        | 582723   |                   |                  |
| 30580435031 | BD06786 MW-13      | EPA 9320        | 582722   |                   |                  |
| 30580435032 | BD06787 MW-13V     | EPA 9320        | 582722   |                   |                  |
| 30580435033 | BD06788 FB-2       | EPA 9320        | 582722   |                   |                  |
| 30580435034 | BD06841 MW-23H     | EPA 9320        | 582722   |                   |                  |
| 30580435035 | BD06842 MW-23V     | EPA 9320        | 582722   |                   |                  |
| 30580435036 | BD06843 MW-17V     | EPA 9320        | 582722   |                   |                  |
| 30580435037 | BD06844 MW-17H     | EPA 9320        | 582722   |                   |                  |
| 30580435038 | BD06845 MW-14V     | EPA 9320        | 582722   |                   |                  |

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWBARAP\_1404  
Pace Project No.: 30580435

| Lab ID      | Sample ID          | QC Batch Method          | QC Batch | Analytical Method | Analytical Batch |
|-------------|--------------------|--------------------------|----------|-------------------|------------------|
| 30580435039 | BD06846 MW-16      | EPA 9320                 | 582722   |                   |                  |
| 30580435040 | BD06847 MW-5V      | EPA 9320                 | 582722   |                   |                  |
| 30580435041 | BD06848 MW-5       | EPA 9320                 | 582723   |                   |                  |
| 30580435042 | BD06849 MW-4       | EPA 9320                 | 582723   |                   |                  |
| 30580435043 | BD06850 MW-3       | EPA 9320                 | 582723   |                   |                  |
| 30580435044 | BD06851 MW-1V      | EPA 9320                 | 582723   |                   |                  |
| 30580435045 | BD06852 MW-16V     | EPA 9320                 | 582723   |                   |                  |
| 30580435046 | BD06853 MW-18H     | EPA 9320                 | 582723   |                   |                  |
| 30580435047 | BD06854 MW-14      | EPA 9320                 | 582723   |                   |                  |
| 30580435048 | BD06855 FB-4       | EPA 9320                 | 582723   |                   |                  |
| 30584315001 | BD08117 MW-20V     | EPA 9320                 | 588032   |                   |                  |
| 30584315002 | BD08118 MW-22H     | EPA 9320                 | 588032   |                   |                  |
| 30584315003 | BD08119 MW-15V     | EPA 9320                 | 588032   |                   |                  |
| 30584315004 | BD08120 MW-20H     | EPA 9320                 | 588032   |                   |                  |
| 30584315005 | BD08121 MW-19H     | EPA 9320                 | 588032   |                   |                  |
| 30580435001 | BD06624 MW-15      | Total Radium Calculation | 588920   |                   |                  |
| 30580435004 | BD06625 EB-1       | Total Radium Calculation | 588920   |                   |                  |
| 30580435005 | BD06626 MW-24H     | Total Radium Calculation | 588920   |                   |                  |
| 30580435006 | BD06627 MW-24H Dup | Total Radium Calculation | 588920   |                   |                  |
| 30580435007 | BD06628 MW-25H     | Total Radium Calculation | 588920   |                   |                  |
| 30580435008 | BD06629 MW-25H Dup | Total Radium Calculation | 588920   |                   |                  |
| 30580435009 | BD06630 MW-25V     | Total Radium Calculation | 588920   |                   |                  |
| 30580435010 | BD06631 MW-1       | Total Radium Calculation | 588920   |                   |                  |
| 30580435011 | BD06632 MW-2       | Total Radium Calculation | 588920   |                   |                  |
| 30580435012 | BD06633 MW-10V     | Total Radium Calculation | 588920   |                   |                  |
| 30580435013 | BD06634 MW-7V      | Total Radium Calculation | 588920   |                   |                  |
| 30580435014 | BD06635 MW-7       | Total Radium Calculation | 588920   |                   |                  |
| 30580435015 | BD06636 MW-6       | Total Radium Calculation | 588920   |                   |                  |
| 30580435016 | BD06637 FB-1       | Total Radium Calculation | 588920   |                   |                  |
| 30580435017 | BD06638 MW-8       | Total Radium Calculation | 588923   |                   |                  |
| 30580435020 | BD06639 MW-10      | Total Radium Calculation | 588920   |                   |                  |
| 30580435021 | BD06640 MW-8V      | Total Radium Calculation | 588920   |                   |                  |
| 30580435022 | BD06641 MW-9       | Total Radium Calculation | 588920   |                   |                  |
| 30580435023 | BD06642 MW-9 Dup   | Total Radium Calculation | 588920   |                   |                  |
| 30580435024 | BD06643 FB-3       | Total Radium Calculation | 588923   |                   |                  |
| 30580435025 | BD06782 MW-11      | Total Radium Calculation | 588923   |                   |                  |
| 30580435026 | BD06783 MW-12V     | Total Radium Calculation | 588923   |                   |                  |
| 30580435027 | BD06784 MW-12V Dup | Total Radium Calculation | 588923   |                   |                  |
| 30580435028 | BD06785 MW-12      | Total Radium Calculation | 588919   |                   |                  |
| 30580435031 | BD06786 MW-13      | Total Radium Calculation | 588923   |                   |                  |
| 30580435032 | BD06787 MW-13V     | Total Radium Calculation | 588923   |                   |                  |
| 30580435033 | BD06788 FB-2       | Total Radium Calculation | 588923   |                   |                  |
| 30580435034 | BD06841 MW-23H     | Total Radium Calculation | 588923   |                   |                  |
| 30580435035 | BD06842 MW-23V     | Total Radium Calculation | 588923   |                   |                  |
| 30580435036 | BD06843 MW-17V     | Total Radium Calculation | 588923   |                   |                  |

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWBARAP\_1404  
Pace Project No.: 30580435

| Lab ID      | Sample ID      | QC Batch Method          | QC Batch | Analytical Method | Analytical Batch |
|-------------|----------------|--------------------------|----------|-------------------|------------------|
| 30580435037 | BD06844 MW-17H | Total Radium Calculation | 588923   |                   |                  |
| 30580435038 | BD06845 MW-14V | Total Radium Calculation | 588923   |                   |                  |
| 30580435039 | BD06846 MW-16  | Total Radium Calculation | 588923   |                   |                  |
| 30580435040 | BD06847 MW-5V  | Total Radium Calculation | 588923   |                   |                  |
| 30580435041 | BD06848 MW-5   | Total Radium Calculation | 588923   |                   |                  |
| 30580435042 | BD06849 MW-4   | Total Radium Calculation | 588923   |                   |                  |
| 30580435043 | BD06850 MW-3   | Total Radium Calculation | 588923   |                   |                  |
| 30580435044 | BD06851 MW-1V  | Total Radium Calculation | 588919   |                   |                  |
| 30580435045 | BD06852 MW-16V | Total Radium Calculation | 588919   |                   |                  |
| 30580435046 | BD06853 MW-18H | Total Radium Calculation | 588919   |                   |                  |
| 30580435047 | BD06854 MW-14  | Total Radium Calculation | 588919   |                   |                  |
| 30580435048 | BD06855 FB-4   | Total Radium Calculation | 588919   |                   |                  |
| 30584315001 | BD08117 MW-20V | Total Radium Calculation | 592116   |                   |                  |
| 30584315002 | BD08118 MW-22H | Total Radium Calculation | 592116   |                   |                  |
| 30584315003 | BD08119 MW-15V | Total Radium Calculation | 592116   |                   |                  |
| 30584315004 | BD08120 MW-20H | Total Radium Calculation | 592116   |                   |                  |
| 30584315005 | BD08121 MW-19H | Total Radium Calculation | 592116   |                   |                  |

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A**  
 Required Client Information:  
 Company: Alabama Power Company  
 Address: 744 Highway 87 GSC Bldg #8  
 Calera, AL 35040  
 Email To: ibwill@southernco.com  
 Phone: 205-664-6101  
 Requested Due Date: 28 days

**Section B**  
 Required Project Information:  
 Report To: Brooke Caton  
 Copy To: Renee Jernigan & Blaine Denton  
 Purchase Order #: APC10755638  
 Project Name: Plant Barry Ash Pond  
 Project Number: WMMBARAP\_1404

**Section C**  
 Invoice Information:  
 Attention: Brooke Caton  
 Company Name: Alabama Power Co.  
 Address: 744 Highway 87 GSC Bldg #8  
 Pace Quote: CCR  
 Pace Project Manager: Skyler Richmond  
 Pace Profile #: 16788

Regulatory Agency: \_\_\_\_\_  
 State / Location: AL

| ITEM # | Description        | Station Name Location_ID | Site Name Facility_ID | Matrix Spike/Matrix Spike Duplicate | Field Filtered | Matrix Code (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED DATE | START TIME | # OF CONTAINERS | Requested Analysis Filtered (Y/N) |             |       |      |          | DATE | TIME | SAMPLE CONDITIONS |          |                  |                         |           |             |        |        |                      |
|--------|--------------------|--------------------------|-----------------------|-------------------------------------|----------------|---------------------------------------|-----------------------------|----------------|------------|-----------------|-----------------------------------|-------------|-------|------|----------|------|------|-------------------|----------|------------------|-------------------------|-----------|-------------|--------|--------|----------------------|
|        |                    |                          |                       |                                     |                |                                       |                             |                |            |                 | Preservatives                     | Unpreserved | H2SO4 | HNO3 | EPA 9315 |      |      |                   | EPA 9320 | Total Radium Sum | Residual Chlorine (Y/N) | Temp in C | Received on | Sealed | Cooler | Samples Intact (Y/N) |
|        |                    |                          |                       |                                     |                |                                       |                             |                |            |                 |                                   |             |       |      |          |      |      |                   |          |                  |                         |           |             |        |        |                      |
| 1      | BD06624 MW-15      | APCO-BY-AP-MW-15         | APCO_Barry_AshPond    | X                                   |                | GW                                    | G                           | 4/3/2023       | 9:12       | 3               |                                   | X           | X     | X    |          |      |      |                   |          |                  |                         |           |             |        |        |                      |
| 2      | BD06625 EB-1       | APCO-BY-AP-EB-01         | APCO_Barry_AshPond    |                                     |                | GW                                    | G                           | 4/3/2023       | 9:40       | 1               |                                   | X           | X     | X    |          |      |      |                   |          |                  |                         |           |             |        |        |                      |
| 3      | BD06626 MW-24H     | APCO-BY-AP-MW-24H        | APCO_Barry_AshPond    |                                     |                | GW                                    | G                           | 4/3/2023       | 11:48      | 1               |                                   | X           | X     | X    |          |      |      |                   |          |                  |                         |           |             |        |        |                      |
| 4      | BD06627 MW-24H Dup | APCO-BY-AP-MW-24H        | APCO_Barry_AshPond    | X                                   |                | GW                                    | G                           | 4/3/2023       | 11:48      | 1               |                                   | X           | X     | X    |          |      |      |                   |          |                  |                         |           |             |        |        |                      |
| 5      | BD06628 MW-25H     | APCO-BY-AP-MW-25H        | APCO_Barry_AshPond    |                                     |                | GW                                    | G                           | 4/3/2023       | 14:24      | 1               |                                   | X           | X     | X    |          |      |      |                   |          |                  |                         |           |             |        |        |                      |
| 6      | BD06629 MW-25H Dup | APCO-BY-AP-MW-25H        | APCO_Barry_AshPond    | X                                   |                | GW                                    | G                           | 4/3/2023       | 14:24      | 1               |                                   | X           | X     | X    |          |      |      |                   |          |                  |                         |           |             |        |        |                      |
| 7      | BD06630 MW-25V     | APCO-BY-AP-MW-25V        | APCO_Barry_AshPond    |                                     |                | GW                                    | G                           | 4/3/2023       | 15:17      | 1               |                                   | X           | X     | X    |          |      |      |                   |          |                  |                         |           |             |        |        |                      |
| 8      | BD06631 MW-1       | APCO-BY-AP-MW-1          | APCO_Barry_AshPond    |                                     |                | GW                                    | G                           | 4/3/2023       | 8:50       | 1               |                                   | X           | X     | X    |          |      |      |                   |          |                  |                         |           |             |        |        |                      |
| 9      | BD06632 MW-2       | APCO-BY-AP-MW-2          | APCO_Barry_AshPond    |                                     |                | GW                                    | G                           | 4/3/2023       | 11:23      | 1               |                                   | X           | X     | X    |          |      |      |                   |          |                  |                         |           |             |        |        |                      |
| 10     | BD06633 MW-10V     | APCO-BY-AP-MW-10V        | APCO_Barry_AshPond    |                                     |                | GW                                    | G                           | 4/3/2023       | 15:16      | 1               |                                   | X           | X     | X    |          |      |      |                   |          |                  |                         |           |             |        |        |                      |
| 11     | BD06634 MW-7V      | APCO-BY-AP-MW-7V         | APCO_Barry_AshPond    |                                     |                | GW                                    | G                           | 4/3/2023       | 16:40      | 1               |                                   | X           | X     | X    |          |      |      |                   |          |                  |                         |           |             |        |        |                      |
| 12     | BD06635 MW-7       | APCO-BY-AP-MW-7          | APCO_Barry_AshPond    |                                     |                | GW                                    | G                           | 4/3/2023       | 17:37      | 1               |                                   | X           | X     | X    |          |      |      |                   |          |                  |                         |           |             |        |        |                      |

**ADDITIONAL COMMENTS** \_\_\_\_\_

**RELINQUISHED BY / AFFILIATION** \_\_\_\_\_ **DATE** 4/12/2023 **TIME** 11:57

Brooke Caton / APC GTL

---

**ACCEPTED BY / AFFILIATION** \_\_\_\_\_ **DATE** 4/12/23 **TIME** 10:35

---

**DATE SIGNED:** \_\_\_\_\_

**SIGNATURE of SAMPLER:** \_\_\_\_\_

**PRINT Name of SAMPLER:** \_\_\_\_\_

**SAMPLER NAME AND SIGNATURE** \_\_\_\_\_

**NO# : 30580435**

30580435



# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

|                                       |   |                                      |                                       |                                       |                                     |
|---------------------------------------|---|--------------------------------------|---------------------------------------|---------------------------------------|-------------------------------------|
| <b>Section A</b>                      |   | <b>Section B</b>                     |                                       | <b>Section C</b>                      |                                     |
| <b>Required Client Information:</b>   |   | <b>Required Project Information:</b> |                                       | <b>Invoice Information:</b>           |                                     |
| Company: Alabama Power Company        | Report To: Brooke Caton                 | Company Name: Alabama Power Co.      | Attention: Brooke Caton               | Company Name: Alabama Power Co.       | Address: 744 Highway 87 GSC Bldg #8 |
| Address: Calera, AL 35040             | Copy To: Renee Jernigan & Blaine Denton | Address: 744 Highway 87 GSC Bldg #8  | Address: CCR                          | Address: 744 Highway 87 GSC Bldg #8   | City: CCR                           |
| Email To: tbwill@alpower.com          | Purchase Order #: APC10755638           | Purchase Order #: APC10755638        | Pace Quote: CCR                       | Pace Quote: CCR                       | City: CCR                           |
| Phone: 205-664-6101 Fax: 205-664-6101 | Project Name: Plant Barry Ash Pond      | Project Name: Plant Barry Ash Pond   | Pace Project Manager: Skylar Richmond | Pace Project Manager: Skylar Richmond | State / Location: AL                |
| Requested Due Date: 28 days           | Project Number: WMMBARAP_1404           | Project Number: WMMBARAP_1404        | Pace Profile #: 16788                 | Pace Profile #: 16788                 | State / Location: AL                |

| ITEM # | Description        | Station Name Location_ID | Site Name Facility_ID | Sample Duplicate | Matrix Spike/Matrix Spike Duplicate | Field Filtered | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED |       | # OF CONTAINERS | Preservatives | Y/N | Requested Analysis Filtered (Y/N) | EPA 9315 | EPA 9320 | Total Radium Sum | Residual Chlorine (Y/N) | Received on | Ice (Y/N) | Custody | Sealed | Cooler | Samples Intact (Y/N) |  |
|--------|--------------------|--------------------------|-----------------------|------------------|-------------------------------------|----------------|---------------------------------------|-----------------------------|-----------|-------|-----------------|---------------|-----|-----------------------------------|----------|----------|------------------|-------------------------|-------------|-----------|---------|--------|--------|----------------------|--|
|        |                    |                          |                       |                  |                                     |                |                                       |                             | DATE      | TIME  |                 |               |     |                                   |          |          |                  |                         |             |           |         |        |        |                      |  |
| 1      | BD06636 MW-6       | APCO-BY-AP-MW-6          | APCO_Barry_AshPond    |                  |                                     |                | GW                                    | G                           | 4/4/2023  | 6:50  | 1               |               |     | X                                 | X        | X        |                  |                         |             |           |         |        |        |                      |  |
| 2      | BD06637 FB-1       | APCO-BY-AP-FB-01         | APCO_Barry_AshPond    |                  |                                     |                | GW                                    | G                           | 4/4/2023  | 9:20  | 1               |               |     | X                                 | X        | X        |                  |                         |             |           |         |        |        |                      |  |
| 3      | BD06638 MW-8       | APCO-BY-AP-MW-8          | APCO_Barry_AshPond    |                  | X                                   |                | GW                                    | G                           | 4/3/2023  | 9:42  | 3               |               |     | X                                 | X        | X        |                  |                         |             |           |         |        |        |                      |  |
| 4      | BD06639 MW-10      | APCO-BY-AP-MW-10         | APCO_Barry_AshPond    |                  |                                     |                | GW                                    | G                           | 4/3/2023  | 12:42 | 1               |               |     | X                                 | X        | X        |                  |                         |             |           |         |        |        |                      |  |
| 5      | BD06640 MW-8V      | APCO-BY-AP-MW-8V         | APCO_Barry_AshPond    |                  |                                     |                | GW                                    | G                           | 4/3/2023  | 15:40 | 1               |               |     | X                                 | X        | X        |                  |                         |             |           |         |        |        |                      |  |
| 6      | BD06641 MW-9       | APCO-BY-AP-MW-9          | APCO_Barry_AshPond    |                  |                                     |                | GW                                    | G                           | 4/4/2023  | 8:47  | 1               |               |     | X                                 | X        | X        |                  |                         |             |           |         |        |        |                      |  |
| 7      | BD06642 MW-9 Dup   | APCO-BY-AP-MW-9          | APCO_Barry_AshPond    | X                |                                     |                | GW                                    | G                           | 4/4/2023  | 8:47  | 1               |               |     | X                                 | X        | X        |                  |                         |             |           |         |        |        |                      |  |
| 8      | BD06643 FB-3       | APCO-BY-AP-FB-03         | APCO_Barry_AshPond    |                  |                                     |                | GW                                    | G                           | 4/4/2023  | 9:20  | 1               |               |     | X                                 | X        | X        |                  |                         |             |           |         |        |        |                      |  |
| 9      | BD06782 MW-11      | APCO-BY-AP-MW-11         | APCO_Barry_AshPond    |                  |                                     |                | GW                                    | G                           | 4/4/2023  | 11:25 | 1               |               |     | X                                 | X        | X        |                  |                         |             |           |         |        |        |                      |  |
| 10     | BD06783 MW-12V     | APCO-BY-AP-MW-12V        | APCO_Barry_AshPond    |                  |                                     |                | GW                                    | G                           | 4/4/2023  | 12:35 | 1               |               |     | X                                 | X        | X        |                  |                         |             |           |         |        |        |                      |  |
| 11     | BD06784 MW-12V Dup | APCO-BY-AP-MW-12V        | APCO_Barry_AshPond    | X                |                                     |                | GW                                    | G                           | 4/4/2023  | 12:35 | 1               |               |     | X                                 | X        | X        |                  |                         |             |           |         |        |        |                      |  |
| 12     | BD06785 MW-12      | APCO-BY-AP-MW-12         | APCO_Barry_AshPond    |                  | X                                   |                | GW                                    | G                           | 4/4/2023  | 13:45 | 3               |               |     | X                                 | X        | X        |                  |                         |             |           |         |        |        |                      |  |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE      | TIME  | ACCEPTED BY / AFFILIATION | DATE    | TIME  |
|---------------------|-------------------------------|-----------|-------|---------------------------|---------|-------|
|                     | Brooke Caton / APC GTL        | 4/12/2023 | 11:57 | <i>[Signature]</i>        | 4/17/23 | 10:25 |

|                                   |              |
|-----------------------------------|--------------|
| <b>SAMPLER NAME AND SIGNATURE</b> |              |
| PRINT Name of SAMPLER:            | DATE Signed: |
| SIGNATURE of SAMPLER:             |              |

**WO#: 30580435**  
 PR: SCR Due Date: 05/17/23  
 CLIENT: ALABAMA PWR

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

|  |   |                                      |                         |                             |  |
|--|---|--------------------------------------|-------------------------|-----------------------------|--|
| <b>Section A</b>                                     |   | <b>Section B</b>                     |                         | <b>Section C</b>            |  |
| <b>Required Client Information:</b>                  |   | <b>Required Project Information:</b> |                         | <b>Invoice Information:</b> |  |
| Company: Alabama Power Company                       | Report To: Brooke Caton                 | Company Name: Alabama Power Co.      | Attention: Brooke Caton |                             |  |
| Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040 | Copy To: Renee Jernigan & Blaine Denton | Address: 744 Highway 87 GSC Bldg #8  | CCR                     |                             |  |
| Email To: tbwill@southernco.com                      | Purchase Order #: APC10755638           | Pace Quote: Skylar Richmond          | State / Location: AL    |                             |  |
| Phone: 205-664-6101 Fax:                             | Project Name: Plant Barry Ash Pond      | Pace Project Manager: 16788          |                         |                             |  |
| Requested Due Date: 28 days                          | Project Number: WMWBARAP_1404           |                                      |                         |                             |  |

| ITEM # | Description    | Station Name Location_ID | Site Name Facility_ID | Sample Duplicate | Field Filtered | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED |       | # OF CONTAINERS | Requested Analysis Filtered (Y/N) |             |       |      | TEMP in C | Received on | Sealed (Y/N) | Cooler (Y/N) | Samples Intact (Y/N) |
|--------|----------------|--------------------------|-----------------------|------------------|----------------|---------------------------------------|-----------------------------|-----------|-------|-----------------|-----------------------------------|-------------|-------|------|-----------|-------------|--------------|--------------|----------------------|
|        |                |                          |                       |                  |                |                                       |                             | DATE      | TIME  |                 | Preservatives                     | Unpreserved | H2SO4 | HNO3 |           |             |              |              |                      |
| 1      | BD06786 MW-13  | APCO-BY-AP-MW-13         | APCO_Barry_AshPond    |                  |                | GW                                    | G                           | 4/4/2023  | 15:05 | 1               |                                   |             |       |      |           |             |              |              |                      |
| 2      | BD06787 MW-13V | APCO-BY-AP-MW-13V        | APCO_Barry_AshPond    |                  |                | GW                                    | G                           | 4/4/2023  | 15:50 | 1               |                                   |             |       |      |           |             |              |              |                      |
| 3      | BD06788 FB-2   | APCO-BY-AP-FB-02         | APCO_Barry_AshPond    |                  |                | GW                                    | G                           | 4/4/2023  | 16:20 | 1               |                                   |             |       |      |           |             |              |              |                      |
| 4      | BD06841 MW-23H | APCO-BY-AP-MW-23H        | APCO_Barry_AshPond    |                  |                | GW                                    | G                           | 4/4/2023  | 11:15 | 1               |                                   |             |       |      |           |             |              |              |                      |
| 5      | BD06842 MW-23V | APCO-BY-AP-MW-23V        | APCO_Barry_AshPond    |                  |                | GW                                    | G                           | 4/4/2023  | 11:55 | 1               |                                   |             |       |      |           |             |              |              |                      |
| 6      | BD06843 MW-17V | APCO-BY-AP-MW-17V        | APCO_Barry_AshPond    |                  |                | GW                                    | G                           | 4/4/2023  | 12:50 | 1               |                                   |             |       |      |           |             |              |              |                      |
| 7      | BD06844 MW-17H | APCO-BY-AP-MW-17H        | APCO_Barry_AshPond    |                  |                | GW                                    | G                           | 4/4/2023  | 13:36 | 1               |                                   |             |       |      |           |             |              |              |                      |
| 8      | BD06845 MW-14V | APCO-BY-AP-MW-14V        | APCO_Barry_AshPond    |                  |                | GW                                    | G                           | 4/4/2023  | 15:05 | 1               |                                   |             |       |      |           |             |              |              |                      |
| 9      | BD06846 MW-16  | APCO-BY-AP-MW-16         | APCO_Barry_AshPond    |                  |                | GW                                    | G                           | 4/5/2023  | 9:45  | 1               |                                   |             |       |      |           |             |              |              |                      |
| 10     | BD06847 MW-5V  | APCO-BY-AP-MW-5V         | APCO_Barry_AshPond    |                  |                | GW                                    | G                           | 4/4/2023  | 11:11 | 1               |                                   |             |       |      |           |             |              |              |                      |
| 11     | BD06848 MW-5   | APCO-BY-AP-MW-5          | APCO_Barry_AshPond    |                  |                | GW                                    | G                           | 4/4/2023  | 12:02 | 1               |                                   |             |       |      |           |             |              |              |                      |
| 12     | BD06849 MW-4   | APCO-BY-AP-MW-4          | APCO_Barry_AshPond    |                  |                | GW                                    | G                           | 4/4/2023  | 13:01 | 1               |                                   |             |       |      |           |             |              |              |                      |

**ADDITIONAL COMMENTS**

RELINQUISHED BY / AFFILIATION: Brooke Caton/ APC-GTL DATE: 4/12/2023 TIME: 11:57

ACCEPTED BY / AFFILIATION: *[Signature]* DATE: 4/12/23 TIME: 10:25

**WO#: 30580435**

PM: SCR Due Date: 05/17/23

CLIENT: ALABAMA PWR

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.

|  |   |  |  |
|--|---|--|--|
| <b>Section A</b><br>Required Client Information:                           | <b>Section B</b><br>Required Project Information: | <b>Section C</b><br>Invoice Information: |  |
| Company: Alabama Power Company   | Report To: Brooke Caton                           | Attention: Brooke Caton                  |  |
| Address: 744 Highway 87 GSC Bldg #8<br>Catera, AL 35040                    | Copy To: Renee Jernigan & Blaine Denton           | Company Name: Alabama Power Co.          |  |
| Email To: <a href="mailto:tbwill@southernco.com">tbwill@southernco.com</a> | Purchase Order #: APC10755638                     | Address: 744 Highway 87 GSC Bldg #8      |  |
| Phone: 205-664-6101   Fax:   | Project Name: Plant Barry Ash Pond                | Place Quote: CCR                         |  |
| Requested Due Date: 28 days  | Project Number: WNWBARAP_1404                     | Place Project Manager: Skyler Richmond   |  |
|  | Place Profile #: 16788                            | State / Location: AL                     |  |
|  |   | Regulatory Agency:                       |  |

| ITEM # | Description    | Station Name Location_ID | Site Name Facility_ID | Sample Duplicate | Matrix Spike/Matrix Spike Duplicate | Field Filtered | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED |       | # OF CONTAINERS | Preservatives | Analyses Test | Requested Analysis Filtered (Y/N) | TEMP in C | Received on | Custody Sealed (Y/N) | Cooler (Y/N) | Samples Intact (Y/N) |
|--------|----------------|--------------------------|-----------------------|------------------|-------------------------------------|----------------|---------------------------------------|-----------------------------|-----------|-------|-----------------|---------------|---------------|-----------------------------------|-----------|-------------|----------------------|--------------|----------------------|
|        |                |                          |                       |                  |                                     |                |                                       |                             | DATE      | TIME  |                 |               |               |                                   |           |             |                      |              |                      |
| 1      | BD06850 MW-3   | APCO-BY-AP-MW-3          | APCO_Barry_AshPond    |                  |                                     |                | GW                                    | G                           | 4/4/2023  | 14:14 | 1               |               | X             | X                                 |           |             |                      |              |                      |
| 2      | BD06851 MW-1V  | APCO-BY-AP-MW-1V         | APCO_Barry_AshPond    |                  |                                     |                | GW                                    | G                           | 4/4/2023  | 15:12 | 1               |               | X             | X                                 |           |             |                      |              |                      |
| 3      | BD06852 MW-16V | APCO-BY-AP-MW-16V        | APCO_Barry_AshPond    |                  |                                     |                | GW                                    | G                           | 4/4/2023  | 16:31 | 1               |               | X             | X                                 |           |             |                      |              |                      |
| 4      | BD06853 MW-18H | APCO-BY-AP-MW-18H        | APCO_Barry_AshPond    |                  |                                     |                | GW                                    | G                           | 4/5/2023  | 9:23  | 1               |               | X             | X                                 |           |             |                      |              |                      |
| 5      | BD06854 MW-14  | APCO-BY-AP-MW-14         | APCO_Barry_AshPond    |                  |                                     |                | GW                                    | G                           | 4/5/2023  | 11:35 | 1               |               | X             | X                                 |           |             |                      |              |                      |
| 6      | BD06855 FB-4   | APCO-BY-AP-FB-04         | APCO_Barry_AshPond    |                  |                                     |                | GW                                    | G                           | 4/5/2023  | 12:30 | 1               |               | X             | X                                 |           |             |                      |              |                      |
| 7      |                |                          |                       |                  |                                     |                |                                       |                             |           |       |                 |               |               |                                   |           |             |                      |              |                      |
| 8      |                |                          |                       |                  |                                     |                |                                       |                             |           |       |                 |               |               |                                   |           |             |                      |              |                      |
| 9      |                |                          |                       |                  |                                     |                |                                       |                             |           |       |                 |               |               |                                   |           |             |                      |              |                      |
| 10     |                |                          |                       |                  |                                     |                |                                       |                             |           |       |                 |               |               |                                   |           |             |                      |              |                      |
| 11     |                |                          |                       |                  |                                     |                |                                       |                             |           |       |                 |               |               |                                   |           |             |                      |              |                      |
| 12     |                |                          |                       |                  |                                     |                |                                       |                             |           |       |                 |               |               |                                   |           |             |                      |              |                      |

|                            |                                      |
|----------------------------|--------------------------------------|
| <b>ADDITIONAL COMMENTS</b> | <b>RELINQUISHED BY / AFFILIATION</b> |
|                            | DATE: 4/12/2023 TIME: 11:57          |
| ACCEPTED BY / AFFILIATION  |                                      |
| DATE: 4/12/23 TIME: 10:25  |                                      |
| DATE SIGNED:               |                                      |

WQ#: 30580435

PM: SCR Due Date: 05/17/23

CLIENT: ALABAMA PWR

Page 8 of 92



DC#\_Title: ENV-FRM-GBUR-0088 v04\_Sample Condition Upon Receipt-  
Pittsburgh

WO#: 30580435

Effective Date: 02/03/2023

PM: SCR Due Date: 05/17/23  
CLIENT: ALABAMA PWR

Client Name: Alabama Power Company

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other

Tracking Number: 636884650816

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

|             |    |
|-------------|----|
| Examined By | JH |
| Labeled By  | JH |
| Temped By   | —  |

| Comments:   | Yes | No | NA | pH paper Lot#              | D.P.D. Residual Chlorine Lot #             |
|---|-----|----|----|----------------------------|--|
|   |     |    |    | 1002124                    | —  |
| Chain of Custody Present  | J   |    |    |                            |  |
| Chain of Custody Filled Out:  | J   |    |    |                            |  |
| -Were client corrections present on COC                                   |     | J  |    |                            |  |
| Chain of Custody Relinquished   | J   |    |    |                            |  |
| Sampler Name & Signature on COC:  | J   | J  |    |                            |  |
| Sample Labels match COC:  | J   |    |    |                            |  |
| -Includes date/time/ID  |     |    |    |                            |  |
| Matrix:   |     |    |    |                            |  |
| Samples Arrived within Hold Time:   | J   |    |    |                            |  |
| Short Hold Time Analysis (<72hr remaining):                               |     | J  |    |                            |  |
| Rush Turn Around Time Requested:  |     | J  |    |                            |  |
| Sufficient Volume:  | J   |    |    |                            |  |
| Correct Containers Used:  | J   |    |    |                            |  |
| -Pace Containers Used   |     |    |    |                            |  |
| Containers Intact:  | J   |    |    |                            |  |
| Orthophosphate field filtered:  |     |    | J  |                            |  |
| Hex Cr Aqueous samples field filtered:                                    |     |    | J  |                            |  |
| Organic Samples checked for dechlorination                                |     |    | J  |                            |  |
| Filtered volume received for dissolved tests:                             | J   |    |    |                            |  |
| All containers checked for preservation:                                  | J   |    |    |                            |  |
| exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix |     |    |    |                            |  |
| All containers meet method preservation requirements:                     | J   |    |    | Initial when completed JH  | Date/Time of Preservation                  |
|   |     |    |    | Lot# of added Preservative |  |
| 8260C/D: Headspace in VOA Vials (> 6mm)                                   |     |    | J  |                            |  |
| 624.1: Headspace in VOA Vials (0mm)                                       |     |    | J  |                            |  |
| Trip Blank Present:   |     |    | J  |                            | Trip blank custody seal present? YES or NO |
| Rad Samples Screened <0.5 mrem/hr.  | J   |    |    | Initial when completed JH  | Date: 4/20/23 Survey Meter SN: 6563        |
| Comments:   |     |    |    |                            |  |

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office. PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

Client

Site Plant Barry Ash Pond

Page 1 of 1

Profile Number 16788

Notes

| Sample Line Item | Amber Glass |      |      |      |      | Plastic |      |      |      |      | Vials |      |      |      |      | Other |      |      |      |      |      |      |      |     |      |    |      |  |  |  |  |  |  |  |
|------------------|-------------|------|------|------|------|---------|------|------|------|------|-------|------|------|------|------|-------|------|------|------|------|------|------|------|-----|------|----|------|--|--|--|--|--|--|--|
|                  | AG1H        | AG3S | AG3U | AG5U | AG5T | BP1N    | BP1U | BP2S | BP2U | BP3C | BP3N  | BP3S | BP3U | DG9S | VG9H | VG9T  | VG9U | VOAK | WG9U | WGFU | WGKU | ZPLC | GCUB | GJN | 12GN | GN | BG1U |  |  |  |  |  |  |  |
| WT               |             |      |      |      |      |         |      |      |      |      |       |      |      |      |      |       |      |      |      |      |      |      |      |     |      |    |      |  |  |  |  |  |  |  |
|                  |             |      |      |      |      |         |      |      |      |      |       |      |      |      |      |       |      |      |      |      |      |      |      |     |      |    |      |  |  |  |  |  |  |  |
|                  |             |      |      |      |      |         |      |      |      |      |       |      |      |      |      |       |      |      |      |      |      |      |      |     |      |    |      |  |  |  |  |  |  |  |
|                  |             |      |      |      |      |         |      |      |      |      |       |      |      |      |      |       |      |      |      |      |      |      |      |     |      |    |      |  |  |  |  |  |  |  |
|                  |             |      |      |      |      |         |      |      |      |      |       |      |      |      |      |       |      |      |      |      |      |      |      |     |      |    |      |  |  |  |  |  |  |  |
|                  |             |      |      |      |      |         |      |      |      |      |       |      |      |      |      |       |      |      |      |      |      |      |      |     |      |    |      |  |  |  |  |  |  |  |
|                  |             |      |      |      |      |         |      |      |      |      |       |      |      |      |      |       |      |      |      |      |      |      |      |     |      |    |      |  |  |  |  |  |  |  |

WO#: 30580435

PH: SCR Due Date: 05/17/23  
 CLIENT: ALABAMA PWR

Container Codes

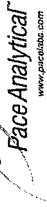
### Glass

| Code | Description                        |
|------|------------------------------------|
| GJN  | 1 Gallon Jug with HNO3             |
| AG5U | 100mL amber glass unpreserved      |
| AG5T | 100mL amber glass Na Thiosulfate   |
| GJN  | 1 Gallon Jug                       |
| AG1S | 1L amber glass H2SO4               |
| AG1H | 1L amber glass HCl                 |
| AG1T | 1L amber glass NA Thiosulfate      |
| BG1U | 1L clear glass unpreserved         |
| AG3S | 250mL amber glass H2SO4            |
| AG3U | 250mL amber glass unpreserved      |
| DG9S | 40mL amber VOA vial H2SO4          |
| VG9U | 40mL clear VOA vial                |
| VG9T | 40mL clear VOA vial Na Thiosulfate |
| VG9H | 40mL clear VOA vial HCl            |
| JGFU | 4oz amber wide jar                 |
| WGFU | 4oz wide jar unpreserved           |
| BG2U | 500mL clear glass unpreserved      |
| AG2U | 500mL amber glass unpreserved      |
| WGKU | 8oz wide jar unpreserved           |
| GN   | General                            |

### Plastic/Misc.

| Code | Description                   | Code | Description        |
|------|-------------------------------|------|--------------------|
| GCUB | 1 gallon cubitainer           | EZI  | 5g Encore          |
| 12GN | 1/2 gallon cubitainer         | VOAK | Kit Volatile Solid |
| SP5T | 120mL coliform Na Thiosulfate | I    | Wipe/Swab          |
| BP1N | 1L plastic HNO3               | ZPLC | Siploc Bag         |
| BP1U | 1L plastic unpreserved        | WT   | Water              |
| BP3S | 250mL plastic H2SO4           | SL   | Solid              |
| BP3N | 250mL plastic HNO3            | OL   | Non-Aq Liquid      |
| BP3U | 250mL plastic unpreserved     | WP   | Wipe               |
| BP3C | 250mL plastic NAOH            |      |                    |
| BP2S | 500mL plastic H2SO4           |      |                    |
| BP2U | 500mL plastic unpreserved     |      |                    |

# Quality Control Sample Performance Assessment



*Analyst Must Manually Enter All Fields Highlighted in Yellow.*

Test: Ra-226  
Analyst: SLC  
Date: 4/25/2023  
Worklist: 72668  
Matrix: W1

| Method Blank Assessment             |         |
|-------------------------------------|---------|
| MB Sample ID                        | 2829632 |
| MB concentration:                   | 0.113   |
| M/B 2 Sigma CSU:                    | 0.115   |
| MB MDC:                             | 0.223   |
| MB Numerical Performance Indicator: | 1.93    |
| MB Status vs Numerical Indicator:   | Pass    |
| MB Status vs. MDC:                  | N/A     |

| Laboratory Control Sample Assessment          |  | LCSD (Y or N)? | y         |
|---|--|----------------|-----------|
| Count Date:                                   |  | LCS72668       | 5/16/2023 |
| Spike I.D.:                                   |  | LCS72668       | 5/16/2023 |
| Decay Corrected Spike Concentration (pCi/mL): |  | 19-033         | 24.017    |
| Volume Used (mL):                             |  | 0.10           | 0.10      |
| Aliquot Volume (L, g, F):                     |  | 0.507          | 0.508     |
| Target Conc. (pCi/L, g, F):                   |  | 4.736          | 4.728     |
| Uncertainty (Calculated):                     |  | 0.057          | 0.057     |
| Result (pCi/L, g, F):                         |  | 4.972          | 4.989     |
| LCS/LCSD 2 Sigma CSU (pCi/L, g, F):           |  | 0.870          | 0.888     |
| Numerical Performance Indicator:              |  | 0.53           | 0.58      |
| Percent Recovery:                             |  | 104.97%        | 105.52%   |
| Status vs Numerical Indicator:                |  | Pass           | Pass      |
| Upper % Recovery Limits:                      |  | N/A            | N/A       |
| Lower % Recovery Limits:                      |  | 125%           | 125%      |
|   |  | 75%            | 75%       |

| Duplicate Sample Assessment                               |          |
|---|----------|
| Sample I.D.:  | LCS72668 |
| Duplicate Sample I.D.:                                    | LCS72668 |
| Sample Result (pCi/L, g, F):                              | 4.972    |
| Sample Duplicate Result (pCi/L, g, F):                    | 0.870    |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):        | 4.989    |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):        | 0.888    |
| Are sample and/or duplicate results below RL?             | NO       |
| Duplicate Numerical Performance Indicator:                | -0.027   |
| (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD: | 0.52%    |
| Duplicate Status vs Numerical Indicator:                  | Pass     |
| Duplicate Status vs RPD:                                  | N/A      |
| % RPD Limit:  | 25%      |

| Sample Matrix Spike Control Assessment                   |  | MS/MSD 1    | MS/MSD 2 |
|--|--|-------------|----------|
| Sample Collection Date:                                  |  | 4/3/2023    |          |
| Sample I.D.:   |  | 30580435001 |          |
| Sample MS I.D.:  |  | 30580435002 |          |
| Sample MSD I.D.:   |  | 30580435003 |          |
| Spike I.D.:  |  | 19-033      |          |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL):     |  | 24.018      |          |
| 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):                           |  | 23.753      |          |
| MSD Aliquot (L, g, F):                                   |  | 0.209       |          |
| MSD Target Conc. (pCi/L, g, F):                          |  | 22.994      |          |
| MS Spike Uncertainty (calculated):                       |  | 0.285       |          |
| MSD Spike Uncertainty (calculated):                      |  | 0.276       |          |
| Sample Result: 2 Sigma CSU (pCi/L, g, F):                |  | 0.778       |          |
| Sample Matrix Spike Result:                              |  | 0.444       |          |
| Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):           |  | 26.888      |          |
| Sample Matrix Spike Duplicate Result:                    |  | 4.273       |          |
| Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): |  | 26.309      |          |
| MS Numerical Performance Indicator:                      |  | 4.192       |          |
| MSD Numerical Performance Indicator:                     |  | 1.077       |          |
| MS Percent Recovery:                                     |  | 109.92%     |          |
| MSD Percent Recovery:                                    |  | 111.04%     |          |
| MS Status vs Numerical Indicator:                        |  | Pass        |          |
| MSD Status vs Numerical Indicator:                       |  | Pass        |          |
| MS Status vs Recovery:                                   |  | N/A         |          |
| MSD Status vs Recovery:                                  |  | N/A         |          |
| MS/MSD Upper % Recovery Limits:                          |  | 125%        |          |
| MS/MSD Lower % Recovery Limits:                          |  | 75%         |          |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment    |             |
|--|-------------|
| Sample I.D.:   | 30580435001 |
| Sample MS I.D.:  | 30580435002 |
| Sample MSD I.D.:   | 30580435003 |
| Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):           | 26.888      |
| Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 4.273       |
| Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 26.309      |
| Duplicate Numerical Performance Indicator:               | 4.192       |
| (Based on the Percent Recoveries) MS/MSD Duplicate RPD:  | 1.01%       |
| MS/MSD Duplicate Status vs Numerical Indicator:          | Pass        |
| 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:

6AM5/17/23

SLC 5/17/23



# Quality Control Sample Performance Assessment



**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228  
Analyst: JDZ  
Date: 4/26/2023  
Worklist: 72699  
Matrix: WT

| Method Blank Assessment             |              |
|-------------------------------------|--------------|
| MB Sample ID                        | 2829963      |
| MB concentration:                   | 0.676        |
| M/B 2 Sigma CSU:                    | 0.320        |
| MB MDC:                             | 0.523        |
| MB Numerical Performance Indicator: | 4.14         |
| MB Status vs. Numerical Indicator:  | Fail*        |
| MB Status vs. MDC:                  | See Comment* |

| Laboratory Control Sample Assessment          |          | LCS D (Y or N)? | N          |
|---|----------|-----------------|------------|
| Count Date:                                   | 5/3/2023 | LCS D72699      | LCS D72699 |
| Spike I.D.:                                   | 22-040   |                 |            |
| Decay Corrected Spike Concentration (pCi/mL): | 32.701   |                 |            |
| Volume Used (mL):                             | 0.10     |                 |            |
| Aliquot Volume (L, g, F):                     | 0.804    |                 |            |
| Target Conc. (pCi/L, g, F):                   | 4.066    |                 |            |
| Uncertainty (Calculated):                     | 0.199    |                 |            |
| Result (pCi/L, g, F):                         | 3.936    |                 |            |
| LCS/LCSD 2 Sigma CSU (pCi/L, g, F):           | 0.924    |                 |            |
| Numerical Performance Indicator:              | -0.27    |                 |            |
| Percent Recovery:                             | 96.81%   |                 |            |
| Status vs Numerical Indicator:                | N/A      |                 |            |
| Status vs Recovery:                           | Pass     |                 |            |
| Upper % Recovery Limits:                      | 135%     |                 |            |
| Lower % Recovery Limits:                      | 60%      |                 |            |

| Sample Matrix Spike Control Assessment                   |             | MS/MSD 1 | MS/MSD 2 |
|--|-------------|----------|----------|
| Sample Collection Date:                                  | 4/3/2023    |          |          |
| Sample I.D.:   | 30580435001 |          |          |
| Sample MS I.D.:  | 30580435002 |          |          |
| Sample MSD I.D.:   | 30580435003 |          |          |
| Spike I.D.:  | 22-040      |          |          |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL):     | 33.029      |          |          |
| Spike Volume Used in MS (mL):                            | 0.20        |          |          |
| Spike Volume Used in MSD (mL):                           | 0.20        |          |          |
| MS Aliquot (L, g, F):                                    | 0.806       |          |          |
| MS Target Conc. (pCi/L, g, F):                           | 8.193       |          |          |
| MSD Aliquot (L, g, F):                                   | 0.806       |          |          |
| MSD Target Conc. (pCi/L, g, F):                          | 8.192       |          |          |
| MS Spike Uncertainty (calculated):                       | 0.401       |          |          |
| MSD Spike Uncertainty (calculated):                      | 0.401       |          |          |
| Sample Result 2 Sigma CSU (pCi/L, g, F):                 | 0.848       |          |          |
| Sample Matrix Spike Result:                              | 0.377       |          |          |
| Sample Matrix Spike Duplicate Result:                    | 8.259       |          |          |
| Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):           | 1.675       |          |          |
| Sample Matrix Spike Duplicate Result:                    | 8.553       |          |          |
| Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 1.701       |          |          |
| MS Numerical Performance Indicator:                      | -0.871      |          |          |
| MSD Numerical Performance Indicator:                     | -0.534      |          |          |
| MS Percent Recovery:                                     | 90.44%      |          |          |
| MSD Percent Recovery:                                    | 94.05%      |          |          |
| MS Status vs Numerical Indicator:                        | Pass        |          |          |
| MSD Status vs Numerical Indicator:                       | Pass        |          |          |
| MS Status vs Recovery:                                   | Pass        |          |          |
| MSD Status vs Recovery:                                  | Pass        |          |          |
| MS/MSD Upper % Recovery Limits:                          | 135%        |          |          |
| MS/MSD Lower % Recovery Limits:                          | 60%         |          |          |

| Duplicate Sample Assessment                        |  | 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 Duplicate Result (pCi/L, g, F):             |  |   |  |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): |  |   |  |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): |  |   |  |
| Are sample and/or duplicate results below RL?      |  |   |  |
| Duplicate Numerical Performance Indicator:         |  |   |  |
| Duplicate RPD:                                     |  |   |  |
| Duplicate Status vs Numerical Indicator:           |  |   |  |
| Duplicate Status vs RPD:                           |  |   |  |
| % RPD Limit:                                       |  |   |  |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment    |             |
|--|-------------|
| Sample I.D.:   | 30580435001 |
| Sample MS I.D.:  | 30580435002 |
| Sample MSD I.D.:   | 30580435003 |
| Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):           | 8.259       |
| Sample Matrix Spike Duplicate Result:                    | 1.675       |
| Sample Matrix Spike Duplicate Result:                    | 8.553       |
| Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 1.701       |
| Duplicate Numerical Performance Indicator:               | -0.242      |
| Duplicate Numerical Performance Indicator:               | 3.91%       |
| MS/MSD Duplicate Status vs Numerical Indicator:          | Pass        |
| MS/MSD Duplicate Status vs RPD:                          | Pass        |
| % RPD Limit:   | 36%         |

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

Comments:  
\*The method blank result is below the reporting limit for this analysis and is acceptable.

*Handwritten:* VAC 5/4/23

*Handwritten:* JDZ

# Quality Control Sample Performance Assessment



**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228  
Analyst: JJS1  
Date: 5/3/2023  
Worklist: 72700  
Matrix: WT

| Method Blank Assessment             |         |
|-------------------------------------|---------|
| MB Sample ID                        | 2829964 |
| MB concentration:                   | 0.488   |
| MB 2 Sigma CSU:                     | 0.311   |
| MB MDC:                             | 0.569   |
| MB Numerical Performance Indicator: | 3.07    |
| MB Status vs Numerical Indicator:   | Fail*   |
| MB Status vs. MDC:                  | Pass    |

| Laboratory Control Sample Assessment          |          |
|---|----------|
| LCS (Y or N)?                                 | N        |
| Count Date:                                   | 5/8/2023 |
| Spike I.D.:                                   | 22-040   |
| Decay Corrected Spike Concentration (pCi/mL): | 32.649   |
| Volume Used (mL):                             | 0.10     |
| Aliquot Volume (L, g, F):                     | 0.800    |
| Target Conc. (pCi/L, g, F):                   | 4.079    |
| Uncertainty (Calculated):                     | 0.200    |
| Result (pCi/L, g, F):                         | 2.591    |
| LCS/LCSD 2 Sigma CSU (pCi/L, g, F):           | 0.738    |
| Numerical Performance Indicator:              | -3.81    |
| Percent Recovery:                             | 63.54%   |
| 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 Duplicate Result 2 Sigma CSU (pCi/L, g, F): |   |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): |   |
| Are sample and/or duplicate results below RL?      |   |
| Duplicate Numerical Performance Indicator:         |   |
| Duplicate RPD:                                     |   |
| Duplicate Status vs Numerical Indicator:           |   |
| Duplicate Status vs RPD:                           |   |
| % RPD Limit:                                       |   |

## 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. *Sub activity < 1 uCi, Pass*

\*\*\*If all other LOC 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. *MS pass % recovery criteria*

| Sample Matrix Spike Control Assessment                          |             | MS/MSD 1 | MS/MSD 2 |
|---|-------------|----------|----------|
| Sample Collection Date:   | 4/3/2023    |          |          |
| Sample I.D.:  | 30580435017 |          |          |
| Sample MS I.D.:   | 30580435018 |          |          |
| Sample MSD I.D.:  | 30580435019 |          |          |
| Spike I.D.:   | 22-040      |          |          |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL):            | 33.029      |          |          |
| Spike Volume Used in MS (mL):                                   | 0.20        |          |          |
| Spike Volume Used in MSD (mL):                                  | 0.20        |          |          |
| MS Aliquot (L, g, F):   | 0.803       |          |          |
| MS Target Conc. (pCi/L, g, F):                                  | 8.225       |          |          |
| MSD Aliquot (L, g, F):  | 0.806       |          |          |
| MSD Target Conc. (pCi/L, g, F):                                 | 8.192       |          |          |
| MS Spike Uncertainty (calculated):                              | 0.403       |          |          |
| MSD Spike Uncertainty (calculated):                             | 0.401       |          |          |
| Sample Result:  | 0.831       |          |          |
| Sample Result 2 Sigma CSU (pCi/L, g, F):                        | 0.405       |          |          |
| Sample Matrix Spike Result:                                     | 6.475       |          |          |
| Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):                  | 1.356       |          |          |
| Sample Matrix Spike Duplicate Result:                           | 7.335       |          |          |
| Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 1.528       |          |          |
| Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):        | -3.439      |          |          |
| MS Numerical Performance Indicator:                             | -2.029      |          |          |
| MSD Numerical Performance Indicator:                            | 68.62%      |          |          |
| MS Percent Recovery:  | 79.39%      |          |          |
| MSD Percent Recovery:   | Fail****    |          |          |
| MS Status vs Numerical Indicator:                               | Warning     |          |          |
| MSD Status vs Numerical Indicator:                              | Pass        |          |          |
| MS Status vs Recovery:  | Pass        |          |          |
| MSD Status vs Recovery:   | 135%        |          |          |
| MS/MSD Upper % Recovery Limits:                                 | 60%         |          |          |
| MS/MSD Lower % Recovery Limits:                                 |             |          |          |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment           |             |
|---|-------------|
| Sample I.D.:  | 30580435017 |
| Sample MS I.D.:   | 30580435018 |
| Sample MSD I.D.:  | 30580435019 |
| Spike I.D.:   | 6.475       |
| Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):                  | 1.356       |
| Sample Matrix Spike Duplicate Result:                           | 7.335       |
| Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 1.528       |
| Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):        | -0.825      |
| Duplicate Numerical Performance Indicator:                      | 14.56%      |
| Duplicate Numerical Performance Indicator RPD:                  | Pass        |
| MS/MSD Duplicate Status vs Numerical Indicator:                 | Pass        |
| MS/MSD Duplicate Status vs RPD:                                 | 36%         |
| % RPD Limit:  |             |



# Quality Control Sample Performance Assessment



Analyst **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-226  
Analyst: SLC  
Date: 4/25/2023  
Worklist: 72670  
Matrix: W1

| Method Blank Assessment             |         |
|-------------------------------------|---------|
| MB Sample ID                        | 2829634 |
| MB concentration:                   | 0.101   |
| MB 2 Sigma CSU:                     | 0.086   |
| MB MDC:                             | 0.149   |
| MB Numerical Performance Indicator: | 2.32    |
| MB Status vs Numerical Indicator:   | Warning |
| MB Status vs. MDC:                  | N/A     |

| Laboratory Control Sample Assessment          |           | LCSD (Y or N)? | N         |
|---|-----------|----------------|-----------|
|   |           | LCSD72670      | LCSD72670 |
| Count Date:                                   | 5/17/2023 |                |           |
| Spike I.D.:                                   | 19-033    |                |           |
| Decay Corrected Spike Concentration (pCi/mL): | 24.017    |                |           |
| Volume Used (mL):                             | 0.10      |                |           |
| Aliquot Volume (L, g, F):                     | 0.506     |                |           |
| Target Conc. (pCi/L, g, F):                   | 4.749     |                |           |
| Uncertainty (Calculated):                     | 0.057     |                |           |
| Result (pCi/L, g, F):                         | 5.029     |                |           |
| LCS/LCSD 2 Sigma CSU (pCi/L, g, F):           | 0.871     |                |           |
| Numerical Performance Indicator:              | 0.63      |                |           |
| Percent Recovery:                             | 105.91%   |                |           |
| Status vs Numerical Indicator:                | Pass      |                |           |
| Status vs Recovery:                           | N/A       |                |           |
| 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 Result 2 Sigma CSU (pCi/L, g, F):           |              |
| Sample Duplicate Result (pCi/L, g, F):             |              |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): |              |
| Are sample and/or duplicate results below RL?      |              |
| Duplicate Numerical Performance Indicator:         |              |
| Duplicate RPD:                                     |              |
| Duplicate Status vs Numerical Indicator:           |              |
| Duplicate Status vs RPD:                           |              |
| % RPD Limit:                                       |              |

| Sample Matrix Spike Control Assessment                   |             | MS/MSD 1 | MS/MSD 2 |
|--|-------------|----------|----------|
| Sample Collection Date:                                  | 4/4/2023    |          |          |
| Sample I.D.:   | 30580435028 |          |          |
| Sample MS I.D.:  | 30580435029 |          |          |
| Sample MSD I.D.:   | 30580435030 |          |          |
| Spike I.D.:  | 19-033      |          |          |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL):     | 24.018      |          |          |
| Spike Volume Used in MS (mL):                            | 0.20        |          |          |
| Spike Volume Used in MSD (mL):                           | 0.20        |          |          |
| MS Aliquot (L, g, F):                                    | 0.209       |          |          |
| MS Target Conc. (pCi/L, g, F):                           | 23.010      |          |          |
| MSD Aliquot (L, g, F):                                   | 0.204       |          |          |
| MSD Target Conc. (pCi/L, g, F):                          | 23.504      |          |          |
| MS Spike Uncertainty (calculated):                       | 0.276       |          |          |
| MSD Spike Uncertainty (calculated):                      | 0.282       |          |          |
| Sample Result 2 Sigma CSU (pCi/L, g, F):                 | 0.626       |          |          |
| Sample Matrix Spike Result:                              | 0.309       |          |          |
| Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):           | 22.902      |          |          |
| Sample Matrix Spike Duplicate Result:                    | 3.688       |          |          |
| Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 27.353      |          |          |
| MS Numerical Performance Indicator:                      | 4.329       |          |          |
| MSD Numerical Performance Indicator:                     | -0.388      |          |          |
| MS Percent Recovery:                                     | 1.452       |          |          |
| MSD Percent Recovery:                                    | 96.81%      |          |          |
| MS Status vs Numerical Indicator:                        | 113.71%     |          |          |
| MSD Status vs Numerical Indicator:                       | Pass        |          |          |
| MS Status vs Recovery:                                   | N/A         |          |          |
| MSD Status vs Recovery:                                  | N/A         |          |          |
| MS/MSD Upper % Recovery Limits:                          | 125%        |          |          |
| MS/MSD Lower % Recovery Limits:                          | 75%         |          |          |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment    |             |
|--|-------------|
| Sample I.D.:   | 30580435028 |
| Sample MS I.D.:  | 30580435029 |
| Sample MSD I.D.:   | 30580435030 |
| Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):           | 22.902      |
| Sample Matrix Spike Duplicate Result:                    | 3.688       |
| Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 27.353      |
| Duplicate Numerical Performance Indicator:               | 4.329       |
| (Based on the Percent Recoveries) MS/MSD Duplicate RPD:  | -1.534      |
| MS/MSD Duplicate Status vs Numerical Indicator:          | 16.06%      |
| MS/MSD Duplicate Status vs RPD:                          | Pass        |
| % RPD Limit:   | N/A         |
|  | 25%         |

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

Comments:

ET  
5-17-23

UAM 5/17/23

# Quality Control Sample Performance Assessment



Test: Ra-228  
Analyst: ZPC  
Date: 5/3/2023  
Worklist: 72701  
Matrix: W/T

Analyst Must Manually Enter All Fields Highlighted in Yellow.

| Method Blank Assessment             |              |
|-------------------------------------|--------------|
| MB Sample ID                        | 2829969      |
| MB concentration:                   | 0.978        |
| MB 2 Sigma CSU:                     | 0.391        |
| MB MDC:                             | 0.591        |
| MB Numerical Performance Indicator: | 4.90         |
| MB Status vs Numerical Indicator:   | Fail*        |
| MB Status vs. MDC:                  | See Comment* |

| Laboratory Control Sample Assessment          |          |
|---|----------|
| LCSD (Y or N)?                                | N        |
| Count Date:                                   | 5/9/2023 |
| Spike I.D.:                                   | 22-040   |
| Decay Corrected Spike Concentration (pCi/mL): | 32.638   |
| Volume Used (mL):                             | 0.10     |
| Aliquot Volume (L, g, F):                     | 0.804    |
| Target Conc. (pCi/L, g, F):                   | 4.060    |
| Uncertainty (Calculated):                     | 0.199    |
| Result (pCi/L, g, F):                         | 3.867    |
| LCSD/LCSD 2 Sigma CSU (pCi/L, g, F):          | 0.898    |
| Numerical Performance Indicator:              | -0.41    |
| Percent Recovery:                             | 95.24%   |
| Status vs Numerical Indicator:                | N/A      |
| Status vs Recovery:                           | Pass     |
| Upper % Recovery Limits:                      | 135%     |
| Lower % Recovery Limits:                      | 60%      |

| Duplicate Sample Assessment                        |   |
|--|---|
| Sample I.D.:                                       | Enter Duplicate sample IDs if other than LCS/LCSD in the space below. |
| Duplicate Sample I.D.:                             |   |
| Sample Result (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?      | See Below ##  |
| Duplicate Numerical Performance Indicator:         |   |
| Duplicate RPD:                                     |   |
| Duplicate Status vs Numerical Indicator:           |   |
| Duplicate Status vs RPD:                           |   |
| % RPD Limit:                                       |   |

| Sample Matrix Spike Control Assessment                          |                       |
|---|-----------------------|
| Sample Collection Date:   | MS/MSD 1<br>4/4/2023  |
| Sample I.D.:  | 30580435028           |
| Sample MS I.D.:   | 30580435029           |
| Sample MSD I.D.:  | 30580435030           |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL):            | MS/MSD 2<br>4/12/2023 |
| Spike Volume Used in MS (mL):                                   | 33.016                |
| Spike Volume Used in MSD (mL):                                  | 0.20                  |
| MS Aliquot (L, g, F):   | 0.801                 |
| MS Target Conc. (pCi/L, g, F):                                  | 8.247                 |
| MSD Aliquot (L, g, F):  | 0.801                 |
| MSD Target Conc. (pCi/L, g, F):                                 | 8.243                 |
| MS Spike Uncertainty (calculated):                              | 0.404                 |
| MSD Spike Uncertainty (calculated):                             | 0.404                 |
| Sample Result 2 Sigma CSU (pCi/L, g, F):                        | 0.793                 |
| Sample Matrix Spike Result:                                     | 0.429                 |
| Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):                  | 6.114                 |
| Sample Matrix Spike Duplicate Result:                           | 6.427                 |
| Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 1.339                 |
| MS Numerical Performance Indicator:                             | 1.372                 |
| MSD Numerical Performance Indicator:                            | 1.372                 |
| MS Percent Recovery:  | -3.189                |
| MSD Percent Recovery:   | -3.189                |
| MS Status vs Numerical Indicator:                               | 64.52%                |
| MSD Status vs Numerical Indicator:                              | 70.53%                |
| MS Status vs Recovery:  | Fail****              |
| MSD Status vs Recovery:   | Fail****              |
| MS/MSD Upper % Recovery Limits:                                 | Pass                  |
| MS/MSD Lower % Recovery Limits:                                 | Pass                  |
| % RPD Limit:  | 135%                  |
|   | 60%                   |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment   |             |
|---|-------------|
| Sample I.D.:  | 30580435028 |
| Sample MS I.D.:   | 30580435029 |
| Sample MSD I.D.:  | 30580435030 |
| Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):  | 6.114       |
| Sample Matrix Spike Duplicate Result:   | 1.268       |
| Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):                                   | 6.606       |
| Duplicate Numerical Performance Indicator:  | 1.372       |
| Duplicate Numerical Performance Indicator (Based on the Percent Recoveries) MS/MSD Duplicate RPD: | -0.516      |
| MS/MSD Duplicate Status vs Numerical Indicator:   | 8.89%       |
| MS/MSD Duplicate Status vs RPD:   | Pass        |
| % RPD Limit:  | Pass        |
|   | 36%         |

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

**Comments:**

\*The method blank result is below the reporting limit for this analysis and is acceptable.

\*\*\*\* If another QC criteria pass, this batch is acceptable. The matrix spike duplicate result indicates a possible bias in this sample only and may not be applicable to any other samples in this analytical batch.

*MS/MSD Pass No recovery criteria.*

*MS 5/11/23*

*MS/MSD 10/12/23*

# Quality Control Sample Performance Assessment



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Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226  
Analyst: SLC  
Date: 5/9/2023  
Worklist: 72984  
Matrix: WT

| Method Blank Assessment             |         |
|-------------------------------------|---------|
| MB Sample ID                        | 2846888 |
| MB concentration:                   | 0.194   |
| MB 2 Sigma CSU:                     | 0.133   |
| MB MDC:                             | 0.236   |
| MB Numerical Performance Indicator: | 2.85    |
| MB Status vs Numerical Indicator:   | Warning |
| MB Status vs. MDC:                  | N/A     |

| Laboratory Control Sample Assessment          |          | LCSD (Y or N)? | Y        |
|---|----------|----------------|----------|
| Count Date:                                   | 6/1/2023 | LCSD72984      | 6/1/2023 |
| Spike I.D.:                                   | 19-033   |                | 19-033   |
| Decay Corrected Spike Concentration (pCi/mL): | 24.016   |                | 24.016   |
| Volume Used (mL):                             | 0.10     |                | 0.10     |
| Aliquot Volume (L, g, F):                     | 0.505    |                | 0.506    |
| Target Conc. (pCi/L, g, F):                   | 4.751    |                | 4.746    |
| Uncertainty (Calculated):                     | 0.057    |                | 0.057    |
| Result (pCi/L, g, F):                         | 3.880    |                | 4.882    |
| LCS/LCSD 2 Sigma CSU (pCi/L, g, F):           | 0.702    |                | 0.849    |
| Numerical Performance Indicator:              | -2.42    |                | 0.31     |
| Percent Recovery:                             | 81.66%   |                | 102.87%  |
| Status vs Numerical Indicator:                | Warning  |                | Pass     |
| Status vs Recovery:                           | N/A      |                | N/A      |
| Upper % Recovery Limits:                      | 125%     |                | 125%     |
| Lower % Recovery Limits:                      | 75%      |                | 75%      |

| Duplicate Sample Assessment                               |           |
|---|-----------|
| Sample I.D.:  | LCSD72984 |
| Duplicate Sample I.D.:                                    | LCSD72984 |
| Sample Result (pCi/L, g, F):                              | 3.880     |
| Sample Result 2 Sigma CSU (pCi/L, g, F):                  | 0.702     |
| Sample Duplicate Result (pCi/L, g, F):                    | 4.882     |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):        | 0.849     |
| Are sample and/or duplicate results below RL?             | NO        |
| Duplicate Numerical Performance Indicator:                | -1.783    |
| (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD: | 22.99%    |
| Duplicate Status vs Numerical Indicator:                  | Pass      |
| Duplicate Status vs RPD:                                  | N/A       |
| % RPD Limit:  | 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 2 Sigma CSU (pCi/L, g, F):                 |  |          |          |
| Sample Matrix Spike Result:                              |  |          |          |
| Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):           |  |          |          |
| Sample Matrix Spike Duplicate Result:                    |  |          |          |
| Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): |  |          |          |
| MS Numerical Performance Indicator:                      |  |          |          |
| MSD Numerical Performance Indicator:                     |  |          |          |
| MS Percent Recovery:                                     |  |          |          |
| MSD Percent Recovery:                                    |  |          |          |
| MS Status vs Numerical Indicator:                        |  |          |          |
| MSD Status vs Numerical Indicator:                       |  |          |          |
| MS Status vs Recovery:                                   |  |          |          |
| MSD Status vs Recovery:                                  |  |          |          |
| MS/MSD Upper % Recovery Limits:                          |  |          |          |
| MS/MSD Lower % Recovery Limits:                          |  |          |          |

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

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

Comments:

LA 6/1/23

# Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228  
Analyst: VAL  
Date: 5/17/2023  
Worklist: 73168  
Matrix: WT

**Method Blank Assessment**

MB Sample ID: 2857357  
 MB concentration: 0.120  
 MB 2 Sigma CSU: 0.284  
 MB MDC: 0.634  
 MB Numerical Performance Indicator: 0.83  
 MB Status vs Numerical Indicator: Pass  
 MB Status vs. MDC: Pass

| Laboratory Control Sample Assessment          | LCS/D (Y or N)? |           |
|---|-----------------|-----------|
|   | LCS/D73168      | Y         |
| Count Date:                                   | 5/22/2023       | 5/22/2023 |
| Spike I.D.:                                   | 22-040          | 22-040    |
| Decay Corrected Spike Concentration (pCi/mL): | 32.496          | 32.496    |
| Volume Used (mL):                             | 0.10            | 0.10      |
| Aliquot Volume (L, g, F):                     | 0.806           | 0.804     |
| Target Conc. (pCi/L, g, F):                   | 4.033           | 4.042     |
| Uncertainty (Calculated):                     | 0.198           | 0.198     |
| Result (pCi/L, g, F):                         | 3.180           | 2.653     |
| LCS/LCSD 2 Sigma CSU (pCi/L, g, F):           | 0.753           | 0.674     |
| Numerical Performance Indicator:              | -2.15           | -3.87     |
| Percent Recovery:                             | 78.85%          | 65.65%    |
| 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.: LCS73168  
 Duplicate Sample I.D.: LCS/D73168  
 Sample Result (pCi/L, g, F): 3.180  
 Sample Result 2 Sigma CSU (pCi/L, g, F): 0.753  
 Sample Duplicate Result (pCi/L, g, F): 2.653  
 Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): 0.674  
 Are sample and/or duplicate results below RL? NO  
 Duplicate Numerical Performance Indicator: 1.021  
 Duplicate Status vs Numerical Indicator: 18.27%  
 Duplicate Status vs Recovery: Pass  
 Duplicate Status vs RPD: Pass  
 % RPD Limit: 36%

Enter Duplicate sample IDs if other than LCS/LCSD in the space below.

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

**Matrix Spike/Matrix Spike Duplicate Sample Assessment**

Sample I.D.:  
 Sample MS I.D.:  
 Sample MSD I.D.:  
 Sample Matrix Spike Result:  
 Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):  
 Sample Matrix Spike Duplicate Result:  
 Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):  
 Duplicate Numerical Performance Indicator:  
 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:

*Ans/24/23*

*5-24-23 JSS*

# Quality Control Sample Performance Assessment



**Analyt Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-226  
Analyst: SLC  
Date: 4/25/2023  
Worklist: 72669  
Matrix: WI

| Method Blank Assessment             |         |
|-------------------------------------|---------|
| MB Sample ID                        | 2829633 |
| MB concentration:                   | 0.143   |
| MB 2 Sigma CSU:                     | 0.100   |
| MB MDC:                             | 0.157   |
| MB Numerical Performance Indicator: | 2.80    |
| MB Status vs Numerical Indicator:   | Warning |
| MB Status vs. MDC:                  | N/A     |

| Laboratory Control Sample Assessment          |  | LCS2 (Y or N)? | Y         |
|---|--|----------------|-----------|
| Count Date:                                   |  | LCS272669      | LCS272669 |
| Spike I.D.:                                   |  | 5/17/2023      | 5/17/2023 |
| Decay Corrected Spike Concentration (pCi/mL): |  | 19-033         | 19-033    |
| Volume Used (mL):                             |  | 24.017         | 24.017    |
| Aliquot Volume (L, g, F):                     |  | 0.10           | 0.10      |
| Target Conc. (pCi/L, g, F):                   |  | 0.503          | 0.503     |
| Uncertainty (Calculated):                     |  | 4.777          | 4.777     |
| Result (pCi/L, g, F):                         |  | 0.057          | 0.057     |
| LCS/LCSD 2 Sigma CSU (pCi/L, g, F):           |  | 4.953          | 5.160     |
| Numerical Performance Indicator:              |  | 0.862          | 0.909     |
| Percent Recovery:                             |  | 0.41           | 0.82      |
| Status vs Numerical Indicator:                |  | 103.74%        | 108.02%   |
| Upper % Recovery Limits:                      |  | Pass           | Pass      |
| Lower % Recovery Limits:                      |  | N/A            | N/A       |
|   |  | 125%           | 125%      |
|   |  | 75%            | 75%       |

| Duplicate Sample Assessment                        |           |
|--|-----------|
| Sample I.D.:                                       | LCS272669 |
| Duplicate Sample I.D.:                             | LCS272669 |
| Sample Result (pCi/L, g, F):                       | 4.953     |
| Sample Duplicate Result (pCi/L, g, F):             | 0.862     |
| Sample Result 2 Sigma CSU (pCi/L, g, F):           | 5.160     |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 0.909     |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | NO        |
| Are sample and/or duplicate results below RL?      | -0.325    |
| Duplicate Numerical Performance Indicator:         | 4.04%     |
| Duplicate (Numerical Recoveries) Duplicate RPD:    | Pass      |
| Duplicate Status vs Numerical Indicator:           | N/A       |
| Duplicate Status vs RPD:                           | 25%       |
| % RPD Limit:                                       |           |

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

Comments:

ET  
5-17-23

| Sample Matrix Spike Control Assessment               |  | MS/MSD 1    | MS/MSD 2 |
|--|--|-------------|----------|
| Sample Collection Date:                              |  | 4/3/2023    |          |
| Sample I.D.:   |  | 30580435017 |          |
| Sample MS I.D.:                                      |  | 30580435018 |          |
| Sample MSD I.D.:                                     |  | 30580435019 |          |
| Spike I.D.:  |  | 19-033      |          |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL): |  | 24.018      |          |
| 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):                       |  | 23.836      |          |
| MSD Aliquot (L, g, F):                               |  | 0.205       |          |
| MSD Target Conc. (pCi/L, g, F):                      |  | 23.466      |          |
| MS Spike Uncertainty (calculated):                   |  | 0.286       |          |
| MSD Spike Uncertainty (calculated):                  |  | 0.282       |          |
| Sample Result:                                       |  | 0.380       |          |
| Sample Result 2 Sigma CSU (pCi/L, g, F):             |  | 0.258       |          |
| Sample Matrix Spike Result:                          |  | 24.428      |          |
| Sample Matrix Spike Duplicate Result:                |  | 3.937       |          |
| MS Numerical Performance Indicator:                  |  | 25.223      |          |
| MS Percent Recovery:                                 |  | 4.039       |          |
| MSD Numerical Performance Indicator:                 |  | 0.105       |          |
| MSD Percent Recovery:                                |  | 0.665       |          |
| MS Status vs Numerical Indicator:                    |  | 100.89%     |          |
| MSD Status vs Numerical Indicator:                   |  | 105.86%     |          |
| MS Status vs Recovery:                               |  | Pass        |          |
| MSD Status vs Recovery:                              |  | Pass        |          |
| MS/MSD Upper % Recovery Limits:                      |  | N/A         |          |
| MS/MSD Lower % Recovery Limits:                      |  | N/A         |          |
|  |  | 125%        |          |
|  |  | 75%         |          |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment  |             |
|--|-------------|
| Sample I.D.:   | 30580435017 |
| Sample MS I.D.:  | 30580435018 |
| Sample MSD I.D.:                                       | 30580435019 |
| Sample Matrix Spike Result:                            | 24.428      |
| Sample Matrix Spike Duplicate Result:                  | 3.937       |
| Sample Result 2 Sigma CSU (pCi/L, g, F):               | 25.223      |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):     | 4.039       |
| Duplicate Numerical Performance Indicator:             | -0.276      |
| Duplicate (Numerical Recoveries) MS/MSD Duplicate RPD: | 4.81%       |
| Duplicate Status vs Numerical Indicator:               | Pass        |
| Duplicate Status vs RPD:                               | N/A         |
| % RPD Limit:   | 25%         |

LAM 5/17/23

# Appendix D



**Appendix D. Horizontal Groundwater Flow Velocity Calculations  
Plant Barry Ash Pond**

| 2023 1st Semi-Annual Monitoring Event |            |            |                 |                             |                        |                    |                                      |                                      |
|---------------------------------------|------------|------------|-----------------|-----------------------------|------------------------|--------------------|--------------------------------------|--------------------------------------|
| Date of Measurement                   | MW-2       | MW-9       | Distance        | Hydraulic Gradient          | Hydraulic Conductivity | Effective Porosity | Calculated Groundwater Flow Velocity | Calculated Groundwater Flow Velocity |
|                                       | $h_1$ (ft) | $h_2$ (ft) | $\Delta l$ (ft) | $\Delta h/\Delta l$ (ft/ft) | K (ft/day)             | n                  | (ft/d)                               | (ft/yr)                              |
| 6/11/2023                             | 2.81       | 1.26       | 4,420.20        | 0.00035                     | 9.40                   | 0.25               | 0.0132                               | 4.81                                 |
|                                       | MW-2       | MW-10      | Distance        | Hydraulic Gradient          | Hydraulic Conductivity | Effective Porosity | Calculated Groundwater Flow Velocity | Calculated Groundwater Flow Velocity |
|                                       | $h_1$ (ft) | $h_2$ (ft) | $\Delta l$ (ft) | $\Delta h/\Delta l$ (ft/ft) | K (ft/day)             | n                  | (ft/d)                               | (ft/yr)                              |
| 6/11/2023                             | 2.81       | 1.16       | 4714.20         | 0.00035                     | 9.40                   | 0.25               | 0.0132                               | 4.80                                 |

Notes:  
 ft = feet  
 ft/d = feet/day  
 ft/ft = feet per foot  
 ft/yr = feet per year

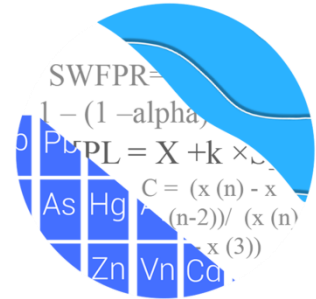
# Appendix E



# GROUNDWATER STATS CONSULTING

June 27, 2023

Southern Company Services  
Attn: Mr. Greg Dyer  
3535 Colonnade Parkway  
Birmingham, AL 35243



Re: Plant Barry Ash Pond  
1<sup>st</sup> Semi-Annual Statistical Analysis – April 2023

Dear Mr. Dyer,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of groundwater data for the April 2023 1<sup>st</sup> 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-UP-MW-1, BY-UP-MW-2, BY-UP-MW-3, and BY-UP-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-17H, BY-AP-MW-17V, BY-AP-MW-18H, BY-AP-MW-19H, BY-AP-MW-20H, BY-AP-MW-20V, BY-AP-MW-22H, BY-AP-MW-23H, BY-AP-MW-23V, BY-AP-MW-24H, BY-AP-MW-25H, and BY-AP-MW-25V

Data from delineation wells are included on time series and box plots but did not require formal statistics. Please note that delineation well BY-AP-MW-25V was previously identified as BY-AP-MW-25VM.

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 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 containing 100% non-detects follows this letter. For all constituents, a substitution of the most recent reporting limit is used for non-detect data. 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. Any flagged data are displayed in a lighter font and as a disconnected symbol on the time series reports, as well as in a lighter font on the accompanying data pages. Summary tables of all flagged values follow this report (Figure C).

During 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): 12
- # Background Samples (Interwell): 79
- # Constituents: 7
- # Downgradient wells: 16

### **Summary of Statistical Methods – Appendix III Parameters**

Based on the Statistical Analysis Plan, the following statistical methods are used to evaluate the 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, 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 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 – April 2020**

### Outlier Analysis

Background data through May 2019 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.

### Trend Tests

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. Trend test results were included with the April 2020 screening report.

### Appendix III – Evaluation of Statistical Approach

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells are not representative of the current background data population; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

Based on the results of the screening and use of the ANOVA, intrawell limits were initially 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.

### **Appendix III Background Update – Fall 2021**

#### Outlier Analysis

Proposed background data were reviewed to identify any newly suspected outliers, since the last background update described above, at all wells for pH and sulfate through May 2021 and at upgradient wells for boron, calcium, chloride, fluoride, and TDS through November 2021. Visual screening is used to identify potential outliers. When values are identified as outliers, these measurements are flagged with “o” and excluded to reduce variation, better represent background conditions, and provide limits that are conservative from a regulatory perspective. As mentioned above, flagged data are displayed in a lighter font and as a disconnected symbol on the time series reports, as

well as in a lighter font on the accompanying data pages. During the background update, the highest values for sulfate among existing background data in wells BY-MW-AP-13 and BY-MW-AP-14 were flagged to construct statistical limits that are conservative (i.e., lower) from a regulatory perspective. Additionally, the highest values among compliance data for sulfate in wells BY-MW-AP-MW-5 and MW-AP-16 were flagged in order to incorporate only compliance data that were of similar concentrations to existing background data.

### Mann-Whitney

For constituents requiring intrawell prediction limits, the Mann-Whitney (Wilcoxon Rank Sum) test was used to compare the medians of historical data through May 2019 to compliance data through May 2021. When no statistically significant difference in medians between the two groups is found at a 99% confidence level, background data may be updated with newer compliance data. Statistically significant differences (either an increase or decrease in median concentrations) were found the following well/constituent pairs:

Increase:

- Sulfate: BY-AP-MW-1, BY-AP-MW-8, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14

Decrease:

- pH: BY-UP-MW-3, BY-UP-MW-4, BY-AP-MW-6, BY-AP-MW-13, BY-AP-MW-14

Note that the Mann-Whitney could not test sulfate in wells BY-AP-MW-5 and BY-MW-AP-16 because a minimum of 4 compliance samples were not available. However, because the available compliance samples were similar in concentration to background measurements, the respective records were updated with more recent samples.

Typically, when the test concludes that the medians of the two groups are significantly different, particularly in the downgradient wells, the background data are not updated to include the newer data but will be reconsidered in the future. In studies such as the current one, in which at least one of the segments being compared is of short duration, the comparison is complicated by the fact that normal short-term variation may be mistaken for long-term change in medians.

Due to more recent data for pH in all wells being fairly similar to background and better representing the groundwater quality in the absence of suspected impacts from practices at the facility, these background data sets were updated. While the Mann-Whitney test did not identify statistically significant differences for sulfate at several wells, these records

were not updated with more recent data due to the observed increase in concentrations in more recent samples compared to background samples. The following records were not updated during the 2021 background update, and a summary follows this report (Background Date Ranges):

- Sulfate: BY-MW-AP-1, BY-MW-AP-8, BY-MW-AP-9, BY-MW-AP-10, BY-MW-AP-11, BY-MW-AP-12, and BY-MW-AP-13

### Trend Tests

The Sen's Slope/Mann Kendall trend test was used to evaluate the entire record of data through October 2021 from upgradient wells for parameters utilizing interwell prediction limits. When statistically significant increasing trends are identified in upgradient wells, the earlier portion of data may be deselected prior to construction of interwell statistical limits if the trending data would result in statistical limits that are not conservative from a regulatory perspective. Statistically significant trends were identified for the following well/constituent pairs:

#### Increasing

- Calcium: BY-UP-MW-3 and BY-UP-MW-4
- Fluoride: BY-UP-MW-2
- TDS: BY-UP-MW-1, BY-UP-MW-2, and BY-UP-MW-4

#### Decreasing

- Chloride: BY-UP-MW-2

Although statistically significant trends were identified for the well/constituent pairs listed above, the magnitudes of the trends are marginal relative to the respective concentrations; therefore, no adjustments were required for these well/constituent pairs at this time. Additionally, concentrations among all upgradient wells remain similar to each other. Therefore, all data from upgradient wells were used to construct interwell prediction limits.

### **Evaluation of Appendix III Parameters – April 2023**

Intrawell prediction limits were constructed for pH and sulfate using screened background data through May 2021 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 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 April 2023 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 for updating background limits 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 April 2023 (Figure E). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The April 2023 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

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. Summary tables and complete graphical results for intrawell and interwell prediction limits may be found following this letter (Figures D and E, respectively, pages 16-20). Exceedances for both intrawell and interwell prediction limits were identified for the following well/constituent pairs:

Intrawell:

- pH: BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-7, BY-AP-MW-8, and BY-UP-MW-10
- 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, and BY-AP-MW-16

Interwell:

- Boron: BY-AP-MW-1, BY-AP-MW-9, BY-AP-MW-10, and BY-AP-MW-16
- Calcium: BY-AP-MW-1, BY-AP-MW-4, 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



- Chloride: BY-AP-MW-1, BY-AP-MW-4, 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
- Fluoride: BY-AP-MW-7, BY-AP-MW-11, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, and BY-AP-MW-16
- TDS: BY-AP-MW-1, BY-AP-MW-4, 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

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 at the 99% confidence level (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 variability in groundwater quality unrelated to practices at the site. A summary of the trend test results follows this letter (pages 21-23). Statistically significant trends were identified for the following well/constituent pairs:

#### Increasing:

- Boron: BY-AP-MW-10 and BY-AP-MW-16
- Calcium: BY-UP-MW-3, BY-UP-MW-4 (both upgradient), BY-AP-MW-7, BY-AP-MW-10, and BY-AP-MW-12
- Chloride: BY-AP-MW-7, BY-AP-MW-10, BY-AP-MW-12, BY-AP-MW-14, BY-AP-MW-15, and BY-AP-MW-16
- Fluoride: BY-UP-MW-1, BY-UP-MW-2, BY-UP-MW-3, BY-UP-MW-4 (all upgradient), BY-AP-MW-7, BY-AP-MW-13, and BY-AP-MW-16
- 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, and BY-AP-MW-14
- TDS: BY-UP-MW-4 (upgradient) and BY-AP-MW-15

#### Decreasing:

- Calcium: BY-AP-MW-8
- Chloride: BY-UP-MW-2, BY-UP-MW-3, and BY-UP-MW-4 (all upgradient)
- pH: BY-UP-MW-2, BY-UP-MW-3, BY-UP-MW-4 (all upgradient), and BY-AP-MW-2

## **Evaluation of Appendix IV Parameters – April 2023**

Data from upgradient wells for Appendix IV parameters were assessed for outliers during previous analyses. A summary of previously flagged outliers follows this report (Figure C).

In accordance with Alabama Department of Environmental Management (ADEM), the Groundwater Protections Standards (GWPS) were updated during the 2021 2<sup>nd</sup> semi-annual statistical analysis. The GWPS will be updated again during the 2023 2<sup>nd</sup> semi-annual statistical analysis. The methodology used to create these GWPS is described below.

### Interwell Upper Tolerance Limits

First, background limits were determined using tolerance limits constructed from pooled upgradient well data through October 2021 (Figure G). The tolerance limits contain a known fraction (coverage) of the background population with a known level of confidence. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. As requested by ADEM to eliminate variation among upgradient well data, nonparametric tolerance limits, which use the highest value in background as the statistical limit, were constructed. A summary of the upper tolerance limits follows this report (page 24).

### Groundwater Protection Standards

These background limits were then compared to the Maximum Contaminant Levels (MCLs) for each parameter, and the higher of the two was used as the GWPS (Figure H, page 25) in the confidence interval comparisons described below.

### Confidence Intervals

Confidence intervals were then constructed on downgradient wells using a maximum of the most recent 8 samples through April 2023 for each of the Appendix IV parameters (Figure I). These intervals were constructed as either parametric or nonparametric confidence intervals depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the

GWPS prepared as described above. The confidence level associated with nonparametric confidence intervals is dependent upon the number samples available.

As mentioned above, well/constituent pairs containing 100% non-detects did not require statistics and were, therefore, deselected prior to construction confidence intervals. A list of deselected well/constituent pairs also follows this report. Each confidence interval was compared with the corresponding GWPS. Only when the entire confidence interval is above the GWPS is the well/constituent pair considered to exceed its respective standard. Both a tabular summary and graphical presentation of the confidence interval results follow this letter (pages 26-28). 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-14, BY-AP-MW-15, and BY-AP-MW-16
- Cobalt: 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,

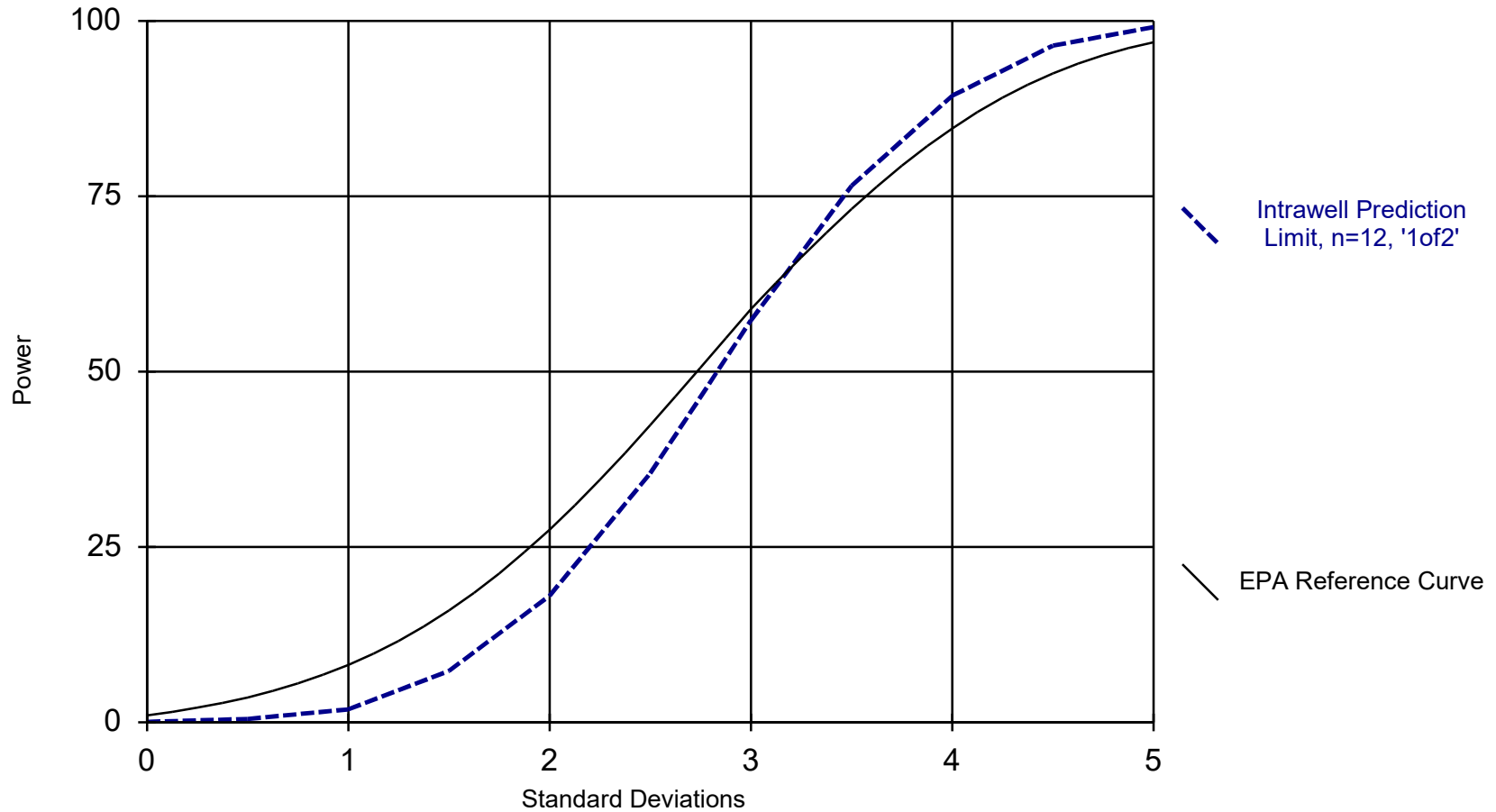


Easton Rayner  
Groundwater Analyst



Andrew Collins  
Project Manager

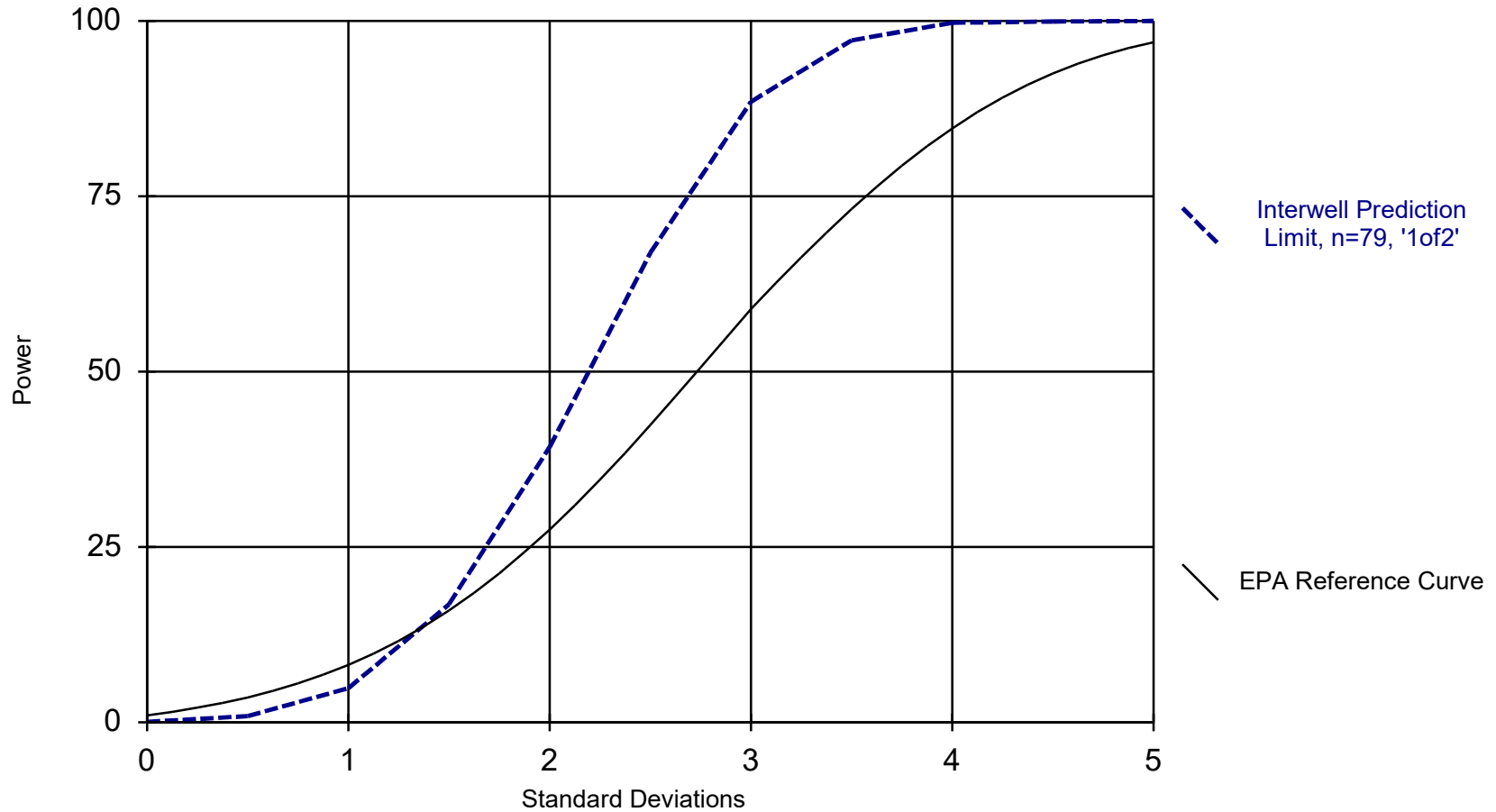
### Intrawell Power Curve



Kappa = 2.8, based on 16 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 6/7/2023 12:19 AM View: Trend  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Interwell Power Curve



Kappa = 2.096, based on 16 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 6/7/2023 12:18 AM View: Trend  
Plant Barry Client: Southern Company Data: Barry Ash Pond

# Date Ranges

Date: 6/6/2023 11:56 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

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## Sulfate as SO4 (mg/L)

- BY-AP-MW-1 background:3/2/2016-5/29/2019
- BY-AP-MW-10 background:3/1/2016-5/30/2019
- BY-AP-MW-11 background:3/1/2016-5/29/2019
- BY-AP-MW-12 background:3/2/2016-5/29/2019
- BY-AP-MW-13 background:3/2/2016-5/29/2019
- BY-AP-MW-8 background:3/1/2016-5/29/2019
- BY-AP-MW-9 background:3/1/2016-5/30/2019

# 100% Non-Detects: Appendix IV Downgradient

Analysis Run 6/22/2023 11:22 AM 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-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

**Beryllium (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-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-13, 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-7, BY-AP-MW-8, BY-AP-MW-9

**Fluoride, total (mg/L)**

BY-AP-MW-3, BY-AP-MW-4, BY-AP-MW-6

**Lead (mg/L)**

BY-AP-MW-10, BY-AP-MW-15, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-5, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9

**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-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-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-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

# Intrawell Prediction Limits - Significant Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 6/6/2023, 11:55 PM

| Constituent           | Well        | Upper Lim. | Lower Lim. | Date     | Observ. | Sig. | Bg N | Bg Wells | Bg Mean | Std. Dev. | %NDs  | ND Adj.      | Transform | Alpha     | Method                      |
|-----------------------|-------------|------------|------------|----------|---------|------|------|----------|---------|-----------|-------|--------------|-----------|-----------|-----------------------------|
| pH, field (SU)        | BY-AP-MW-10 | 6.463      | 6.143      | 4/3/2023 | 6.05    | Yes  | 19   | n/a      | 6.303   | 0.06515   | 0     | None         | No        | 0.0002351 | Param Intra 1 of 2          |
| pH, field (SU)        | BY-AP-MW-2  | 6.2        | 5.161      | 4/3/2023 | 4.88    | Yes  | 19   | n/a      | 1094    | 156.3     | 0     | None         | x^4       | 0.0002351 | Param Intra 1 of 2          |
| pH, field (SU)        | BY-AP-MW-3  | 5.22       | 4.24       | 4/4/2023 | 5.31    | Yes  | 19   | n/a      | n/a     | n/a       | 0     | n/a          | n/a       | 0.009664  | NP Intra (normality) 1 of 2 |
| pH, field (SU)        | BY-AP-MW-7  | 6.432      | 6.166      | 4/3/2023 | 6.53    | Yes  | 18   | n/a      | 6.299   | 0.05346   | 0     | None         | No        | 0.0002351 | Param Intra 1 of 2          |
| pH, field (SU)        | BY-AP-MW-8  | 6.26       | 5.89       | 4/3/2023 | 6.34    | Yes  | 19   | n/a      | n/a     | n/a       | 0     | n/a          | n/a       | 0.009664  | NP Intra (normality) 1 of 2 |
| Sulfate as SO4 (mg/L) | BY-AP-MW-1  | 6.348      | n/a        | 4/3/2023 | 34.2    | Yes  | 13   | n/a      | 52.17   | 74.33     | 46.15 | Kaplan-Meier | x^3       | 0.0004702 | Param Intra 1 of 2          |
| Sulfate as SO4 (mg/L) | BY-AP-MW-10 | 5          | n/a        | 4/3/2023 | 15      | Yes  | 13   | n/a      | n/a     | n/a       | 69.23 | n/a          | n/a       | 0.009692  | NP Intra (NDs) 1 of 2       |
| Sulfate as SO4 (mg/L) | BY-AP-MW-11 | 19.37      | n/a        | 4/4/2023 | 84.3    | Yes  | 13   | n/a      | 1.308   | 0.5028    | 46.15 | Kaplan-Meier | x^(1/3)   | 0.0004702 | Param Intra 1 of 2          |
| Sulfate as SO4 (mg/L) | BY-AP-MW-12 | 7.04       | n/a        | 4/4/2023 | 39.6    | Yes  | 12   | n/a      | n/a     | n/a       | 75    | n/a          | n/a       | 0.01077   | NP Intra (NDs) 1 of 2       |
| Sulfate as SO4 (mg/L) | BY-AP-MW-13 | 9.841      | n/a        | 4/4/2023 | 24.6    | Yes  | 12   | n/a      | 3.818   | 2.151     | 41.67 | Kaplan-Meier | No        | 0.0004702 | Param Intra 1 of 2          |
| Sulfate as SO4 (mg/L) | BY-AP-MW-14 | 61.6       | n/a        | 4/5/2023 | 112     | Yes  | 16   | n/a      | n/a     | n/a       | 56.25 | n/a          | n/a       | 0.006456  | NP Intra (NDs) 1 of 2       |
| Sulfate as SO4 (mg/L) | BY-AP-MW-15 | 7.61       | n/a        | 4/3/2023 | 8.28    | Yes  | 17   | n/a      | n/a     | n/a       | 58.82 | n/a          | n/a       | 0.005914  | NP Intra (NDs) 1 of 2       |
| Sulfate as SO4 (mg/L) | BY-AP-MW-16 | 6.72       | n/a        | 4/5/2023 | 9.3     | Yes  | 15   | n/a      | n/a     | n/a       | 60    | n/a          | n/a       | 0.007533  | NP Intra (NDs) 1 of 2       |
| Sulfate as SO4 (mg/L) | BY-AP-MW-5  | 11         | n/a        | 4/4/2023 | 43.9    | Yes  | 15   | n/a      | n/a     | n/a       | 60    | n/a          | n/a       | 0.007533  | NP Intra (NDs) 1 of 2       |
| Sulfate as SO4 (mg/L) | BY-AP-MW-7  | 5          | n/a        | 4/3/2023 | 14.8    | Yes  | 16   | n/a      | n/a     | n/a       | 37.5  | n/a          | n/a       | 0.006456  | NP Intra (normality) 1 of 2 |
| Sulfate as SO4 (mg/L) | BY-AP-MW-8  | 6.01       | n/a        | 4/3/2023 | 32.1    | Yes  | 13   | n/a      | n/a     | n/a       | 76.92 | n/a          | n/a       | 0.009692  | NP Intra (NDs) 1 of 2       |
| Sulfate as SO4 (mg/L) | BY-AP-MW-9  | 5.91       | n/a        | 4/4/2023 | 25.3    | Yes  | 13   | n/a      | 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 6/6/2023, 11:55 PM

| Constituent           | Well               | Upper Lim.   | Lower Lim.   | Date            | Observ.     | Sig.       | Bg N      | Bg Wells   | Bg Mean      | Std. Dev.      | %NDs     | ND Adj.      | Transform  | Alpha            | Method                             |
|-----------------------|--------------------|--------------|--------------|-----------------|-------------|------------|-----------|------------|--------------|----------------|----------|--------------|------------|------------------|------------------------------------|
| pH, field (SU)        | BY-AP-MW-1         | 5.91         | 5.47         | 4/3/2023        | 5.78        | No         | 19        | n/a        | n/a          | n/a            | 0        | n/a          | n/a        | 0.009664         | NP Intra (normality) 1 of 2        |
| <b>pH, field (SU)</b> | <b>BY-AP-MW-10</b> | <b>6.463</b> | <b>6.143</b> | <b>4/3/2023</b> | <b>6.05</b> | <b>Yes</b> | <b>19</b> | <b>n/a</b> | <b>6.303</b> | <b>0.06515</b> | <b>0</b> | <b>None</b>  | <b>No</b>  | <b>0.0002351</b> | <b>Param Intra 1 of 2</b>          |
| pH, field (SU)        | BY-AP-MW-11        | 6.34         | 5.85         | 4/4/2023        | 6.27        | No         | 19        | n/a        | n/a          | n/a            | 0        | n/a          | n/a        | 0.009664         | NP Intra (normality) 1 of 2        |
| pH, field (SU)        | BY-AP-MW-12        | 6.25         | 5.58         | 4/4/2023        | 5.76        | No         | 19        | n/a        | n/a          | n/a            | 0        | n/a          | n/a        | 0.009664         | NP Intra (normality) 1 of 2        |
| pH, field (SU)        | BY-AP-MW-13        | 6.14         | 5.79         | 4/4/2023        | 6.06        | No         | 19        | n/a        | n/a          | n/a            | 0        | n/a          | n/a        | 0.009664         | NP Intra (normality) 1 of 2        |
| pH, field (SU)        | BY-AP-MW-14        | 6.14         | 5.76         | 4/5/2023        | 5.93        | No         | 19        | n/a        | n/a          | n/a            | 0        | n/a          | n/a        | 0.009664         | NP Intra (normality) 1 of 2        |
| pH, field (SU)        | BY-AP-MW-15        | 6.76         | 6.2          | 4/3/2023        | 6.63        | No         | 19        | n/a        | n/a          | n/a            | 0        | n/a          | n/a        | 0.009664         | NP Intra (normality) 1 of 2        |
| pH, field (SU)        | BY-AP-MW-16        | 5.87         | 5.23         | 4/5/2023        | 5.83        | No         | 19        | n/a        | n/a          | n/a            | 0        | n/a          | n/a        | 0.009664         | NP Intra (normality) 1 of 2        |
| <b>pH, field (SU)</b> | <b>BY-AP-MW-2</b>  | <b>6.2</b>   | <b>5.161</b> | <b>4/3/2023</b> | <b>4.88</b> | <b>Yes</b> | <b>19</b> | <b>n/a</b> | <b>1094</b>  | <b>156.3</b>   | <b>0</b> | <b>None</b>  | <b>x^4</b> | <b>0.0002351</b> | <b>Param Intra 1 of 2</b>          |
| <b>pH, field (SU)</b> | <b>BY-AP-MW-3</b>  | <b>5.22</b>  | <b>4.24</b>  | <b>4/4/2023</b> | <b>5.31</b> | <b>Yes</b> | <b>19</b> | <b>n/a</b> | <b>n/a</b>   | <b>n/a</b>     | <b>0</b> | <b>n/a</b>   | <b>n/a</b> | <b>0.009664</b>  | <b>NP Intra (normality) 1 of 2</b> |
| pH, field (SU)        | BY-AP-MW-4         | 5.355        | 3.955        | 4/4/2023        | 4.55        | No         | 19        | n/a        | 4.655        | 0.2846         | 0        | None         | No         | 0.0002351        | Param Intra 1 of 2                 |
| pH, field (SU)        | BY-AP-MW-5         | 6.03         | 5.47         | 4/4/2023        | 5.84        | No         | 18        | n/a        | n/a          | n/a            | 0        | n/a          | n/a        | 0.01075          | NP Intra (normality) 1 of 2        |
| pH, field (SU)        | BY-AP-MW-6         | 5.694        | 4.846        | 4/4/2023        | 5.33        | No         | 19        | n/a        | 801.5        | 101.6          | 0        | None         | x^4        | 0.0002351        | Param Intra 1 of 2                 |
| <b>pH, field (SU)</b> | <b>BY-AP-MW-7</b>  | <b>6.432</b> | <b>6.166</b> | <b>4/3/2023</b> | <b>6.53</b> | <b>Yes</b> | <b>18</b> | <b>n/a</b> | <b>6.299</b> | <b>0.05346</b> | <b>0</b> | <b>None</b>  | <b>No</b>  | <b>0.0002351</b> | <b>Param Intra 1 of 2</b>          |
| <b>pH, field (SU)</b> | <b>BY-AP-MW-8</b>  | <b>6.26</b>  | <b>5.89</b>  | <b>4/3/2023</b> | <b>6.34</b> | <b>Yes</b> | <b>19</b> | <b>n/a</b> | <b>n/a</b>   | <b>n/a</b>     | <b>0</b> | <b>n/a</b>   | <b>n/a</b> | <b>0.009664</b>  | <b>NP Intra (normality) 1 of 2</b> |
| pH, field (SU)        | BY-AP-MW-9         | 6.32         | 5.97         | 4/4/2023        | 6.15        | No         | 19        | n/a        | n/a          | n/a            | 0        | n/a          | n/a        | 0.009664         | NP Intra (normality) 1 of 2        |
| pH, field (SU)        | BY-UP-MW-1         | 4.882        | 4.49         | 4/12/2023       | 4.77        | No         | 18        | n/a        | 4.686        | 0.0786         | 0        | None         | No         | 0.0002351        | Param Intra 1 of 2                 |
| pH, field (SU)        | BY-UP-MW-2         | 5.032        | 4.318        | 4/12/2023       | 4.67        | No         | 18        | n/a        | 4.675        | 0.1431         | 0        | None         | No         | 0.0002351        | Param Intra 1 of 2                 |
| pH, field (SU)        | BY-UP-MW-3         | 4.98         | 4.4          | 4/12/2023       | 4.83        | No         | 18        | n/a        | n/a          | n/a            | 0        | n/a          | n/a        | 0.01075          | NP Intra (normality) 1 of 2        |
| pH, field (SU)        | BY-UP-MW-4         | 5.082        | 4.517        | 4/12/2023       | 4.73        | No         | 18        | n/a        | 4.799        | 0.1134         | 0        | None         | No         | 0.0002351        | Param Intra 1 of 2                 |
| Sulfate as SO4 (mg/L) | BY-AP-MW-1         | 6.348        | n/a          | 4/3/2023        | 34.2        | Yes        | 13        | n/a        | 52.17        | 74.33          | 46.15    | Kaplan-Meier | x^3        | 0.0004702        | Param Intra 1 of 2                 |
| Sulfate as SO4 (mg/L) | BY-AP-MW-10        | 5            | n/a          | 4/3/2023        | 15          | Yes        | 13        | n/a        | n/a          | n/a            | 69.23    | n/a          | n/a        | 0.009692         | NP Intra (NDs) 1 of 2              |
| Sulfate as SO4 (mg/L) | BY-AP-MW-11        | 19.37        | n/a          | 4/4/2023        | 84.3        | Yes        | 13        | n/a        | 1.308        | 0.5028         | 46.15    | Kaplan-Meier | x^(1/3)    | 0.0004702        | Param Intra 1 of 2                 |
| Sulfate as SO4 (mg/L) | BY-AP-MW-12        | 7.04         | n/a          | 4/4/2023        | 39.6        | Yes        | 12        | n/a        | n/a          | n/a            | 75       | n/a          | n/a        | 0.01077          | NP Intra (NDs) 1 of 2              |
| Sulfate as SO4 (mg/L) | BY-AP-MW-13        | 9.841        | n/a          | 4/4/2023        | 24.6        | Yes        | 12        | n/a        | 3.818        | 2.151          | 41.67    | Kaplan-Meier | No         | 0.0004702        | Param Intra 1 of 2                 |
| Sulfate as SO4 (mg/L) | BY-AP-MW-14        | 61.6         | n/a          | 4/5/2023        | 112         | Yes        | 16        | n/a        | n/a          | n/a            | 56.25    | n/a          | n/a        | 0.006456         | NP Intra (NDs) 1 of 2              |
| Sulfate as SO4 (mg/L) | BY-AP-MW-15        | 7.61         | n/a          | 4/3/2023        | 8.28        | Yes        | 17        | n/a        | n/a          | n/a            | 58.82    | n/a          | n/a        | 0.005914         | NP Intra (NDs) 1 of 2              |
| Sulfate as SO4 (mg/L) | BY-AP-MW-16        | 6.72         | n/a          | 4/5/2023        | 9.3         | Yes        | 15        | n/a        | n/a          | n/a            | 60       | n/a          | n/a        | 0.007533         | NP Intra (NDs) 1 of 2              |
| Sulfate as SO4 (mg/L) | BY-AP-MW-2         | 3.3          | n/a          | 4/3/2023        | 1.77J       | No         | 17        | n/a        | n/a          | n/a            | 64.71    | n/a          | n/a        | 0.005914         | NP Intra (NDs) 1 of 2              |
| Sulfate as SO4 (mg/L) | BY-AP-MW-3         | 5            | n/a          | 4/4/2023        | 2.92        | No         | 17        | n/a        | n/a          | n/a            | 41.18    | n/a          | n/a        | 0.005914         | NP Intra (normality) 1 of 2        |
| Sulfate as SO4 (mg/L) | BY-AP-MW-4         | 5.286        | n/a          | 4/4/2023        | 2.33        | No         | 17        | n/a        | 2.731        | 1.012          | 5.882    | None         | No         | 0.0004702        | Param Intra 1 of 2                 |
| Sulfate as SO4 (mg/L) | BY-AP-MW-5         | 11           | n/a          | 4/4/2023        | 43.9        | Yes        | 15        | n/a        | n/a          | n/a            | 60       | n/a          | n/a        | 0.007533         | NP Intra (NDs) 1 of 2              |
| Sulfate as SO4 (mg/L) | BY-AP-MW-6         | 3.037        | n/a          | 4/4/2023        | 1.59J       | No         | 17        | n/a        | 0.01145      | 0.4356         | 23.53    | Kaplan-Meier | ln(x)      | 0.0004702        | Param Intra 1 of 2                 |
| Sulfate as SO4 (mg/L) | BY-AP-MW-7         | 5            | n/a          | 4/3/2023        | 14.8        | Yes        | 16        | n/a        | n/a          | n/a            | 37.5     | n/a          | n/a        | 0.006456         | NP Intra (normality) 1 of 2        |
| Sulfate as SO4 (mg/L) | BY-AP-MW-8         | 6.01         | n/a          | 4/3/2023        | 32.1        | Yes        | 13        | n/a        | n/a          | n/a            | 76.92    | n/a          | n/a        | 0.009692         | NP Intra (NDs) 1 of 2              |
| Sulfate as SO4 (mg/L) | BY-AP-MW-9         | 5.91         | n/a          | 4/4/2023        | 25.3        | Yes        | 13        | n/a        | n/a          | n/a            | 69.23    | n/a          | n/a        | 0.009692         | NP Intra (NDs) 1 of 2              |
| Sulfate as SO4 (mg/L) | BY-UP-MW-1         | 31.7         | n/a          | 4/12/2023       | 11.8        | No         | 16        | n/a        | 3.458        | 0.85           | 0        | None         | sqrt(x)    | 0.0004702        | Param Intra 1 of 2                 |
| Sulfate as SO4 (mg/L) | BY-UP-MW-2         | 9.774        | n/a          | 4/12/2023       | 8.54        | No         | 15        | n/a        | 6.454        | 1.269          | 0        | None         | No         | 0.0004702        | Param Intra 1 of 2                 |
| Sulfate as SO4 (mg/L) | BY-UP-MW-3         | 9.087        | n/a          | 4/12/2023       | 7.59        | No         | 16        | n/a        | 7.496        | 0.6224         | 0        | None         | No         | 0.0004702        | Param Intra 1 of 2                 |
| Sulfate as SO4 (mg/L) | BY-UP-MW-4         | 10.8         | n/a          | 4/12/2023       | 5.93        | No         | 16        | n/a        | n/a          | n/a            | 0        | n/a          | n/a        | 0.006456         | NP Intra (normality) 1 of 2        |

# Interwell Prediction Limits - Significant Results

Plant Barry    Client: Southern Company    Data: Barry Ash Pond    Printed 6/7/2023, 12:09 AM

| Constituent            | Well        | Upper Lim. | Date     | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs  | ND Adj. | Transform | Alpha     | Method                      |
|------------------------|-------------|------------|----------|---------|------|------|---------|-----------|-------|---------|-----------|-----------|-----------------------------|
| Boron, total (mg/L)    | BY-AP-MW-1  | 0.188      | 4/3/2023 | 2.04    | Yes  | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Boron, total (mg/L)    | BY-AP-MW-10 | 0.188      | 4/3/2023 | 2.22    | Yes  | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Boron, total (mg/L)    | BY-AP-MW-16 | 0.188      | 4/5/2023 | 2.29    | Yes  | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Boron, total (mg/L)    | BY-AP-MW-9  | 0.188      | 4/4/2023 | 1.65    | Yes  | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Calcium, total (mg/L)  | BY-AP-MW-1  | 2.143      | 4/3/2023 | 36.9    | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-10 | 2.143      | 4/3/2023 | 48.8    | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-11 | 2.143      | 4/4/2023 | 26.6    | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-12 | 2.143      | 4/4/2023 | 23.3    | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-13 | 2.143      | 4/4/2023 | 47.7    | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-14 | 2.143      | 4/5/2023 | 9.78    | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-15 | 2.143      | 4/3/2023 | 6.76    | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-16 | 2.143      | 4/5/2023 | 11.4    | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-4  | 2.143      | 4/4/2023 | 3.36    | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-5  | 2.143      | 4/4/2023 | 8.36    | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-7  | 2.143      | 4/3/2023 | 3.52    | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-8  | 2.143      | 4/3/2023 | 4.21    | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-9  | 2.143      | 4/4/2023 | 32.4    | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Chloride, Total (mg/L) | BY-AP-MW-1  | 9.9        | 4/3/2023 | 23.7    | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-10 | 9.9        | 4/3/2023 | 29.7    | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-11 | 9.9        | 4/4/2023 | 28.9    | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-12 | 9.9        | 4/4/2023 | 25      | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-13 | 9.9        | 4/4/2023 | 14.3    | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-14 | 9.9        | 4/5/2023 | 47      | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-15 | 9.9        | 4/3/2023 | 91.5    | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-16 | 9.9        | 4/5/2023 | 21.8    | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-4  | 9.9        | 4/4/2023 | 32.4    | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-5  | 9.9        | 4/4/2023 | 17.2    | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-7  | 9.9        | 4/3/2023 | 59.4    | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-8  | 9.9        | 4/3/2023 | 10.8    | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-9  | 9.9        | 4/4/2023 | 18      | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Fluoride, total (mg/L) | BY-AP-MW-11 | 0.125      | 4/4/2023 | 0.126   | Yes  | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-13 | 0.125      | 4/4/2023 | 0.187   | Yes  | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-14 | 0.125      | 4/5/2023 | 0.127   | Yes  | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-15 | 0.125      | 4/3/2023 | 0.26    | Yes  | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-16 | 0.125      | 4/5/2023 | 0.144   | Yes  | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-7  | 0.125      | 4/3/2023 | 0.171   | Yes  | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| TDS (mg/L)             | BY-AP-MW-1  | 58         | 4/3/2023 | 400     | Yes  | 80   | n/a     | n/a       | 10    | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)             | BY-AP-MW-10 | 58         | 4/3/2023 | 370     | Yes  | 80   | n/a     | n/a       | 10    | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)             | BY-AP-MW-11 | 58         | 4/4/2023 | 392     | Yes  | 80   | n/a     | n/a       | 10    | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)             | BY-AP-MW-12 | 58         | 4/4/2023 | 334     | Yes  | 80   | n/a     | n/a       | 10    | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)             | BY-AP-MW-13 | 58         | 4/4/2023 | 220     | Yes  | 80   | n/a     | n/a       | 10    | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)             | BY-AP-MW-14 | 58         | 4/5/2023 | 316     | Yes  | 80   | n/a     | n/a       | 10    | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)             | BY-AP-MW-15 | 58         | 4/3/2023 | 285     | Yes  | 80   | n/a     | n/a       | 10    | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)             | BY-AP-MW-16 | 58         | 4/5/2023 | 327     | Yes  | 80   | n/a     | n/a       | 10    | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)             | BY-AP-MW-4  | 58         | 4/4/2023 | 76.7    | Yes  | 80   | n/a     | n/a       | 10    | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)             | BY-AP-MW-5  | 58         | 4/4/2023 | 151     | Yes  | 80   | n/a     | n/a       | 10    | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)             | BY-AP-MW-7  | 58         | 4/3/2023 | 198     | Yes  | 80   | n/a     | n/a       | 10    | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)             | BY-AP-MW-8  | 58         | 4/3/2023 | 107     | Yes  | 80   | n/a     | n/a       | 10    | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)             | BY-AP-MW-9  | 58         | 4/4/2023 | 317     | Yes  | 80   | n/a     | n/a       | 10    | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |

# Interwell Prediction Limits - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 6/7/2023, 12:09 AM

| Constituent            | Well        | Upper Lim. | Date     | Observ.  | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs  | ND Adj. | Transform | Alpha     | Method                      |
|------------------------|-------------|------------|----------|----------|------|------|---------|-----------|-------|---------|-----------|-----------|-----------------------------|
| Boron, total (mg/L)    | BY-AP-MW-1  | 0.188      | 4/3/2023 | 2.04     | Yes  | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Boron, total (mg/L)    | BY-AP-MW-10 | 0.188      | 4/3/2023 | 2.22     | Yes  | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Boron, total (mg/L)    | BY-AP-MW-11 | 0.188      | 4/4/2023 | 0.0581J  | No   | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Boron, total (mg/L)    | BY-AP-MW-12 | 0.188      | 4/4/2023 | 0.0629J  | No   | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Boron, total (mg/L)    | BY-AP-MW-13 | 0.188      | 4/4/2023 | 0.0391J  | No   | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Boron, total (mg/L)    | BY-AP-MW-14 | 0.188      | 4/5/2023 | 0.0587J  | No   | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Boron, total (mg/L)    | BY-AP-MW-15 | 0.188      | 4/3/2023 | 0.0713J  | No   | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Boron, total (mg/L)    | BY-AP-MW-16 | 0.188      | 4/5/2023 | 2.29     | Yes  | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Boron, total (mg/L)    | BY-AP-MW-2  | 0.188      | 4/3/2023 | 0.1015ND | No   | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Boron, total (mg/L)    | BY-AP-MW-3  | 0.188      | 4/4/2023 | 0.0468J  | No   | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Boron, total (mg/L)    | BY-AP-MW-4  | 0.188      | 4/4/2023 | 0.1015ND | No   | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Boron, total (mg/L)    | BY-AP-MW-5  | 0.188      | 4/4/2023 | 0.0381J  | No   | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Boron, total (mg/L)    | BY-AP-MW-6  | 0.188      | 4/4/2023 | 0.1015ND | No   | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Boron, total (mg/L)    | BY-AP-MW-7  | 0.188      | 4/3/2023 | 0.174    | No   | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Boron, total (mg/L)    | BY-AP-MW-8  | 0.188      | 4/3/2023 | 0.129    | No   | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Boron, total (mg/L)    | BY-AP-MW-9  | 0.188      | 4/4/2023 | 1.65     | Yes  | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Calcium, total (mg/L)  | BY-AP-MW-1  | 2.143      | 4/3/2023 | 36.9     | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-10 | 2.143      | 4/3/2023 | 48.8     | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-11 | 2.143      | 4/4/2023 | 26.6     | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-12 | 2.143      | 4/4/2023 | 23.3     | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-13 | 2.143      | 4/4/2023 | 47.7     | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-14 | 2.143      | 4/5/2023 | 9.78     | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-15 | 2.143      | 4/3/2023 | 6.76     | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-16 | 2.143      | 4/5/2023 | 11.4     | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-2  | 2.143      | 4/3/2023 | 1.79     | No   | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-3  | 2.143      | 4/4/2023 | 1.29     | No   | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-4  | 2.143      | 4/4/2023 | 3.36     | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-5  | 2.143      | 4/4/2023 | 8.36     | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-6  | 2.143      | 4/4/2023 | 1.94     | No   | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-7  | 2.143      | 4/3/2023 | 3.52     | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-8  | 2.143      | 4/3/2023 | 4.21     | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-9  | 2.143      | 4/4/2023 | 32.4     | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Chloride, Total (mg/L) | BY-AP-MW-1  | 9.9        | 4/3/2023 | 23.7     | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-10 | 9.9        | 4/3/2023 | 29.7     | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-11 | 9.9        | 4/4/2023 | 28.9     | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-12 | 9.9        | 4/4/2023 | 25       | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-13 | 9.9        | 4/4/2023 | 14.3     | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-14 | 9.9        | 4/5/2023 | 47       | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-15 | 9.9        | 4/3/2023 | 91.5     | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-16 | 9.9        | 4/5/2023 | 21.8     | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-2  | 9.9        | 4/3/2023 | 7.35     | No   | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-3  | 9.9        | 4/4/2023 | 9.66     | No   | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-4  | 9.9        | 4/4/2023 | 32.4     | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-5  | 9.9        | 4/4/2023 | 17.2     | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-6  | 9.9        | 4/4/2023 | 7.81     | No   | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-7  | 9.9        | 4/3/2023 | 59.4     | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-8  | 9.9        | 4/3/2023 | 10.8     | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-9  | 9.9        | 4/4/2023 | 18       | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Fluoride, total (mg/L) | BY-AP-MW-1  | 0.125      | 4/3/2023 | 0.0717J  | No   | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-10 | 0.125      | 4/3/2023 | 0.125ND  | No   | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-11 | 0.125      | 4/4/2023 | 0.126    | Yes  | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-12 | 0.125      | 4/4/2023 | 0.081J   | No   | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-13 | 0.125      | 4/4/2023 | 0.187    | Yes  | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-14 | 0.125      | 4/5/2023 | 0.127    | Yes  | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-15 | 0.125      | 4/3/2023 | 0.26     | Yes  | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-16 | 0.125      | 4/5/2023 | 0.144    | Yes  | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-2  | 0.125      | 4/3/2023 | 0.125ND  | No   | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-3  | 0.125      | 4/4/2023 | 0.125ND  | No   | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-4  | 0.125      | 4/4/2023 | 0.125ND  | No   | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-5  | 0.125      | 4/4/2023 | 0.0631J  | No   | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-6  | 0.125      | 4/4/2023 | 0.125ND  | No   | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-7  | 0.125      | 4/3/2023 | 0.171    | Yes  | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-8  | 0.125      | 4/3/2023 | 0.0706J  | No   | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-9  | 0.125      | 4/4/2023 | 0.0797J  | No   | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| TDS (mg/L)             | BY-AP-MW-1  | 58         | 4/3/2023 | 400      | Yes  | 80   | n/a     | n/a       | 10    | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)             | BY-AP-MW-10 | 58         | 4/3/2023 | 370      | Yes  | 80   | n/a     | n/a       | 10    | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)             | BY-AP-MW-11 | 58         | 4/4/2023 | 392      | Yes  | 80   | n/a     | n/a       | 10    | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)             | BY-AP-MW-12 | 58         | 4/4/2023 | 334      | Yes  | 80   | n/a     | n/a       | 10    | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |

# Interwell Prediction Limits - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 6/7/2023, 12:09 AM

| Constituent | Well        | Upper Lim. | Date     | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha     | Method                      |
|-------------|-------------|------------|----------|---------|------|------|---------|-----------|------|---------|-----------|-----------|-----------------------------|
| TDS (mg/L)  | BY-AP-MW-13 | 58         | 4/4/2023 | 220     | Yes  | 80   | n/a     | n/a       | 10   | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)  | BY-AP-MW-14 | 58         | 4/5/2023 | 316     | Yes  | 80   | n/a     | n/a       | 10   | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)  | BY-AP-MW-15 | 58         | 4/3/2023 | 285     | Yes  | 80   | n/a     | n/a       | 10   | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)  | BY-AP-MW-16 | 58         | 4/5/2023 | 327     | Yes  | 80   | n/a     | n/a       | 10   | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)  | BY-AP-MW-2  | 58         | 4/3/2023 | 40.7    | No   | 80   | n/a     | n/a       | 10   | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)  | BY-AP-MW-3  | 58         | 4/4/2023 | 43.3    | No   | 80   | n/a     | n/a       | 10   | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)  | BY-AP-MW-4  | 58         | 4/4/2023 | 76.7    | Yes  | 80   | n/a     | n/a       | 10   | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)  | BY-AP-MW-5  | 58         | 4/4/2023 | 151     | Yes  | 80   | n/a     | n/a       | 10   | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)  | BY-AP-MW-6  | 58         | 4/4/2023 | 40      | No   | 80   | n/a     | n/a       | 10   | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)  | BY-AP-MW-7  | 58         | 4/3/2023 | 198     | Yes  | 80   | n/a     | n/a       | 10   | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)  | BY-AP-MW-8  | 58         | 4/3/2023 | 107     | Yes  | 80   | n/a     | n/a       | 10   | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)  | BY-AP-MW-9  | 58         | 4/4/2023 | 317     | Yes  | 80   | n/a     | n/a       | 10   | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |

# Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 6/7/2023, 12:15 AM

| Constituent            | Well            | Slope    | Calc. | Critical | Sig. | N  | %NDs  | Normality | Xform | Alpha | Method |
|------------------------|-----------------|----------|-------|----------|------|----|-------|-----------|-------|-------|--------|
| Boron, total (mg/L)    | BY-AP-MW-10     | 0.1136   | 133   | 81       | Yes  | 20 | 0     | n/a       | n/a   | 0.01  | NP     |
| Boron, total (mg/L)    | BY-AP-MW-16     | 0.08216  | 121   | 81       | Yes  | 20 | 0     | n/a       | n/a   | 0.01  | NP     |
| Calcium, total (mg/L)  | BY-AP-MW-10     | 2.02     | 108   | 87       | Yes  | 21 | 0     | n/a       | n/a   | 0.01  | NP     |
| Calcium, total (mg/L)  | BY-AP-MW-12     | 0.3894   | 122   | 87       | Yes  | 21 | 0     | n/a       | n/a   | 0.01  | NP     |
| Calcium, total (mg/L)  | BY-AP-MW-7      | 0.3936   | 98    | 81       | Yes  | 20 | 0     | n/a       | n/a   | 0.01  | NP     |
| Calcium, total (mg/L)  | BY-AP-MW-8      | -0.5646  | -127  | -87      | Yes  | 21 | 0     | n/a       | n/a   | 0.01  | NP     |
| Calcium, total (mg/L)  | BY-UP-MW-3 (bg) | 0.05783  | 101   | 81       | Yes  | 20 | 0     | n/a       | n/a   | 0.01  | NP     |
| Calcium, total (mg/L)  | BY-UP-MW-4 (bg) | 0.1123   | 124   | 81       | Yes  | 20 | 0     | n/a       | n/a   | 0.01  | NP     |
| Chloride, Total (mg/L) | BY-AP-MW-10     | 1.486    | 166   | 87       | Yes  | 21 | 0     | n/a       | n/a   | 0.01  | NP     |
| Chloride, Total (mg/L) | BY-AP-MW-12     | 0.5618   | 125   | 87       | Yes  | 21 | 0     | n/a       | n/a   | 0.01  | NP     |
| Chloride, Total (mg/L) | BY-AP-MW-14     | 1.372    | 114   | 87       | Yes  | 21 | 0     | n/a       | n/a   | 0.01  | NP     |
| Chloride, Total (mg/L) | BY-AP-MW-15     | 9.918    | 188   | 87       | Yes  | 21 | 0     | n/a       | n/a   | 0.01  | NP     |
| Chloride, Total (mg/L) | BY-AP-MW-16     | 0.8385   | 150   | 87       | Yes  | 21 | 0     | n/a       | n/a   | 0.01  | NP     |
| Chloride, Total (mg/L) | BY-AP-MW-7      | 0.6631   | 110   | 81       | Yes  | 20 | 0     | n/a       | n/a   | 0.01  | NP     |
| Chloride, Total (mg/L) | BY-UP-MW-2 (bg) | -0.361   | -127  | -81      | Yes  | 20 | 0     | n/a       | n/a   | 0.01  | NP     |
| Chloride, Total (mg/L) | BY-UP-MW-3 (bg) | -0.06405 | -104  | -81      | Yes  | 20 | 0     | n/a       | n/a   | 0.01  | NP     |
| Chloride, Total (mg/L) | BY-UP-MW-4 (bg) | -0.04945 | -90   | -81      | Yes  | 20 | 0     | n/a       | n/a   | 0.01  | NP     |
| Fluoride, total (mg/L) | BY-AP-MW-13     | 0.004293 | 100   | 87       | Yes  | 21 | 4.762 | n/a       | n/a   | 0.01  | NP     |
| Fluoride, total (mg/L) | BY-AP-MW-16     | 0.008725 | 101   | 87       | Yes  | 21 | 23.81 | n/a       | n/a   | 0.01  | NP     |
| Fluoride, total (mg/L) | BY-AP-MW-7      | 0.006166 | 89    | 87       | Yes  | 21 | 0     | n/a       | n/a   | 0.01  | NP     |
| Fluoride, total (mg/L) | BY-UP-MW-1 (bg) | 0.01082  | 100   | 87       | Yes  | 21 | 52.38 | n/a       | n/a   | 0.01  | NP     |
| Fluoride, total (mg/L) | BY-UP-MW-2 (bg) | 0.01456  | 105   | 87       | Yes  | 21 | 52.38 | n/a       | n/a   | 0.01  | NP     |
| Fluoride, total (mg/L) | BY-UP-MW-3 (bg) | 0.00566  | 106   | 87       | Yes  | 21 | 66.67 | n/a       | n/a   | 0.01  | NP     |
| Fluoride, total (mg/L) | BY-UP-MW-4 (bg) | 0.00566  | 106   | 87       | Yes  | 21 | 66.67 | n/a       | n/a   | 0.01  | NP     |
| pH, field (SU)         | BY-AP-MW-2      | -0.09288 | -164  | -98      | Yes  | 23 | 0     | n/a       | n/a   | 0.01  | NP     |
| pH, field (SU)         | BY-UP-MW-2 (bg) | -0.05688 | -140  | -92      | Yes  | 22 | 0     | n/a       | n/a   | 0.01  | NP     |
| pH, field (SU)         | BY-UP-MW-3 (bg) | -0.07203 | -134  | -92      | Yes  | 22 | 0     | n/a       | n/a   | 0.01  | NP     |
| pH, field (SU)         | BY-UP-MW-4 (bg) | -0.03806 | -111  | -92      | Yes  | 22 | 0     | n/a       | n/a   | 0.01  | NP     |
| Sulfate as SO4 (mg/L)  | BY-AP-MW-1      | 2.168    | 137   | 87       | Yes  | 21 | 28.57 | n/a       | n/a   | 0.01  | NP     |
| Sulfate as SO4 (mg/L)  | BY-AP-MW-10     | 1.096    | 94    | 87       | Yes  | 21 | 42.86 | n/a       | n/a   | 0.01  | NP     |
| Sulfate as SO4 (mg/L)  | BY-AP-MW-11     | 7.332    | 147   | 87       | Yes  | 21 | 28.57 | n/a       | n/a   | 0.01  | NP     |
| Sulfate as SO4 (mg/L)  | BY-AP-MW-12     | 2.242    | 104   | 81       | Yes  | 20 | 45    | n/a       | n/a   | 0.01  | NP     |
| Sulfate as SO4 (mg/L)  | BY-AP-MW-13     | 3.326    | 96    | 81       | Yes  | 20 | 25    | n/a       | n/a   | 0.01  | NP     |
| Sulfate as SO4 (mg/L)  | BY-AP-MW-14     | 11.37    | 112   | 81       | Yes  | 20 | 45    | n/a       | n/a   | 0.01  | NP     |
| Sulfate as SO4 (mg/L)  | BY-AP-MW-5      | 0.829    | 89    | 74       | Yes  | 19 | 47.37 | n/a       | n/a   | 0.01  | NP     |
| Sulfate as SO4 (mg/L)  | BY-AP-MW-7      | 0.9419   | 97    | 81       | Yes  | 20 | 30    | n/a       | n/a   | 0.01  | NP     |
| Sulfate as SO4 (mg/L)  | BY-AP-MW-8      | 2.016    | 127   | 87       | Yes  | 21 | 47.62 | n/a       | n/a   | 0.01  | NP     |
| Sulfate as SO4 (mg/L)  | BY-AP-MW-9      | 0.4966   | 90    | 87       | Yes  | 21 | 42.86 | n/a       | n/a   | 0.01  | NP     |
| TDS (mg/L)             | BY-AP-MW-15     | 15.94    | 162   | 87       | Yes  | 21 | 0     | n/a       | n/a   | 0.01  | NP     |
| TDS (mg/L)             | BY-UP-MW-4 (bg) | 1.876    | 95    | 81       | Yes  | 20 | 20    | n/a       | n/a   | 0.01  | NP     |

# Trend Tests - Prediction Limit Exceedances - All Results

Plant Barry    Client: Southern Company    Data: Barry Ash Pond    Printed 6/7/2023, 12:15 AM

| Constituent                   | Well                   | Slope           | Calc.       | Critical   | Sig.       | N         | %NDs         | Normality  | Xform      | Alpha       | Method    |
|-------------------------------|------------------------|-----------------|-------------|------------|------------|-----------|--------------|------------|------------|-------------|-----------|
| Boron, total (mg/L)           | BY-AP-MW-1             | 0.04887         | 64          | 81         | No         | 20        | 0            | n/a        | n/a        | 0.01        | NP        |
| <b>Boron, total (mg/L)</b>    | <b>BY-AP-MW-10</b>     | <b>0.1136</b>   | <b>133</b>  | <b>81</b>  | <b>Yes</b> | <b>20</b> | <b>0</b>     | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| <b>Boron, total (mg/L)</b>    | <b>BY-AP-MW-16</b>     | <b>0.08216</b>  | <b>121</b>  | <b>81</b>  | <b>Yes</b> | <b>20</b> | <b>0</b>     | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| Boron, total (mg/L)           | BY-AP-MW-9             | 0               | 1           | 81         | No         | 20        | 0            | n/a        | n/a        | 0.01        | NP        |
| Boron, total (mg/L)           | BY-UP-MW-1 (bg)        | -0.0009367      | -48         | -81        | No         | 20        | 40           | n/a        | n/a        | 0.01        | NP        |
| Boron, total (mg/L)           | BY-UP-MW-2 (bg)        | 0               | 31          | 74         | No         | 19        | 89.47        | n/a        | n/a        | 0.01        | NP        |
| Boron, total (mg/L)           | BY-UP-MW-3 (bg)        | 0               | 0           | 81         | No         | 20        | 100          | n/a        | n/a        | 0.01        | NP        |
| Boron, total (mg/L)           | BY-UP-MW-4 (bg)        | 0               | 29          | 81         | No         | 20        | 90           | n/a        | n/a        | 0.01        | NP        |
| Calcium, total (mg/L)         | BY-AP-MW-1             | 0.3179          | 16          | 87         | No         | 21        | 0            | n/a        | n/a        | 0.01        | NP        |
| <b>Calcium, total (mg/L)</b>  | <b>BY-AP-MW-10</b>     | <b>2.02</b>     | <b>108</b>  | <b>87</b>  | <b>Yes</b> | <b>21</b> | <b>0</b>     | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| Calcium, total (mg/L)         | BY-AP-MW-11            | -0.1518         | -20         | -87        | No         | 21        | 0            | n/a        | n/a        | 0.01        | NP        |
| <b>Calcium, total (mg/L)</b>  | <b>BY-AP-MW-12</b>     | <b>0.3894</b>   | <b>122</b>  | <b>87</b>  | <b>Yes</b> | <b>21</b> | <b>0</b>     | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| Calcium, total (mg/L)         | BY-AP-MW-13            | 0.4066          | 75          | 87         | No         | 21        | 0            | n/a        | n/a        | 0.01        | NP        |
| Calcium, total (mg/L)         | BY-AP-MW-14            | -0.1157         | -26         | -87        | No         | 21        | 0            | n/a        | n/a        | 0.01        | NP        |
| Calcium, total (mg/L)         | BY-AP-MW-15            | 0.04921         | 29          | 87         | No         | 21        | 0            | n/a        | n/a        | 0.01        | NP        |
| Calcium, total (mg/L)         | BY-AP-MW-16            | -0.04554        | -19         | -87        | No         | 21        | 0            | n/a        | n/a        | 0.01        | NP        |
| Calcium, total (mg/L)         | BY-AP-MW-4             | -0.01511        | -12         | -87        | No         | 21        | 0            | n/a        | n/a        | 0.01        | NP        |
| Calcium, total (mg/L)         | BY-AP-MW-5             | -0.1127         | -33         | -81        | No         | 20        | 0            | n/a        | n/a        | 0.01        | NP        |
| <b>Calcium, total (mg/L)</b>  | <b>BY-AP-MW-7</b>      | <b>0.3936</b>   | <b>98</b>   | <b>81</b>  | <b>Yes</b> | <b>20</b> | <b>0</b>     | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| <b>Calcium, total (mg/L)</b>  | <b>BY-AP-MW-8</b>      | <b>-0.5646</b>  | <b>-127</b> | <b>-87</b> | <b>Yes</b> | <b>21</b> | <b>0</b>     | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| Calcium, total (mg/L)         | BY-AP-MW-9             | -0.05215        | -16         | -87        | No         | 21        | 0            | n/a        | n/a        | 0.01        | NP        |
| Calcium, total (mg/L)         | BY-UP-MW-1 (bg)        | -0.004603       | -12         | -81        | No         | 20        | 0            | n/a        | n/a        | 0.01        | NP        |
| Calcium, total (mg/L)         | BY-UP-MW-2 (bg)        | 0.0288          | 40          | 81         | No         | 20        | 0            | n/a        | n/a        | 0.01        | NP        |
| <b>Calcium, total (mg/L)</b>  | <b>BY-UP-MW-3 (bg)</b> | <b>0.05783</b>  | <b>101</b>  | <b>81</b>  | <b>Yes</b> | <b>20</b> | <b>0</b>     | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| <b>Calcium, total (mg/L)</b>  | <b>BY-UP-MW-4 (bg)</b> | <b>0.1123</b>   | <b>124</b>  | <b>81</b>  | <b>Yes</b> | <b>20</b> | <b>0</b>     | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| Chloride, Total (mg/L)        | BY-AP-MW-1             | 0.368           | 55          | 74         | No         | 19        | 0            | n/a        | n/a        | 0.01        | NP        |
| <b>Chloride, Total (mg/L)</b> | <b>BY-AP-MW-10</b>     | <b>1.486</b>    | <b>166</b>  | <b>87</b>  | <b>Yes</b> | <b>21</b> | <b>0</b>     | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| Chloride, Total (mg/L)        | BY-AP-MW-11            | 0.4491          | 54          | 87         | No         | 21        | 0            | n/a        | n/a        | 0.01        | NP        |
| <b>Chloride, Total (mg/L)</b> | <b>BY-AP-MW-12</b>     | <b>0.5618</b>   | <b>125</b>  | <b>87</b>  | <b>Yes</b> | <b>21</b> | <b>0</b>     | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| Chloride, Total (mg/L)        | BY-AP-MW-13            | -0.5681         | -32         | -87        | No         | 21        | 0            | n/a        | n/a        | 0.01        | NP        |
| <b>Chloride, Total (mg/L)</b> | <b>BY-AP-MW-14</b>     | <b>1.372</b>    | <b>114</b>  | <b>87</b>  | <b>Yes</b> | <b>21</b> | <b>0</b>     | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| <b>Chloride, Total (mg/L)</b> | <b>BY-AP-MW-15</b>     | <b>9.918</b>    | <b>188</b>  | <b>87</b>  | <b>Yes</b> | <b>21</b> | <b>0</b>     | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| <b>Chloride, Total (mg/L)</b> | <b>BY-AP-MW-16</b>     | <b>0.8385</b>   | <b>150</b>  | <b>87</b>  | <b>Yes</b> | <b>21</b> | <b>0</b>     | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| Chloride, Total (mg/L)        | BY-AP-MW-4             | 0.0839          | 11          | 87         | No         | 21        | 0            | n/a        | n/a        | 0.01        | NP        |
| Chloride, Total (mg/L)        | BY-AP-MW-5             | -0.1245         | -22         | -81        | No         | 20        | 0            | n/a        | n/a        | 0.01        | NP        |
| <b>Chloride, Total (mg/L)</b> | <b>BY-AP-MW-7</b>      | <b>0.6631</b>   | <b>110</b>  | <b>81</b>  | <b>Yes</b> | <b>20</b> | <b>0</b>     | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| Chloride, Total (mg/L)        | BY-AP-MW-8             | 0.04311         | 13          | 87         | No         | 21        | 0            | n/a        | n/a        | 0.01        | NP        |
| Chloride, Total (mg/L)        | BY-AP-MW-9             | -0.8711         | -78         | -87        | No         | 21        | 0            | n/a        | n/a        | 0.01        | NP        |
| Chloride, Total (mg/L)        | BY-UP-MW-1 (bg)        | -0.1864         | -62         | -81        | No         | 20        | 0            | n/a        | n/a        | 0.01        | NP        |
| <b>Chloride, Total (mg/L)</b> | <b>BY-UP-MW-2 (bg)</b> | <b>-0.361</b>   | <b>-127</b> | <b>-81</b> | <b>Yes</b> | <b>20</b> | <b>0</b>     | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| <b>Chloride, Total (mg/L)</b> | <b>BY-UP-MW-3 (bg)</b> | <b>-0.06405</b> | <b>-104</b> | <b>-81</b> | <b>Yes</b> | <b>20</b> | <b>0</b>     | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| <b>Chloride, Total (mg/L)</b> | <b>BY-UP-MW-4 (bg)</b> | <b>-0.04945</b> | <b>-90</b>  | <b>-81</b> | <b>Yes</b> | <b>20</b> | <b>0</b>     | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| Fluoride, total (mg/L)        | BY-AP-MW-11            | 0.00443         | 76          | 87         | No         | 21        | 4.762        | n/a        | n/a        | 0.01        | NP        |
| <b>Fluoride, total (mg/L)</b> | <b>BY-AP-MW-13</b>     | <b>0.004293</b> | <b>100</b>  | <b>87</b>  | <b>Yes</b> | <b>21</b> | <b>4.762</b> | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| Fluoride, total (mg/L)        | BY-AP-MW-14            | 0.002285        | 33          | 87         | No         | 21        | 4.762        | n/a        | n/a        | 0.01        | NP        |
| Fluoride, total (mg/L)        | BY-AP-MW-15            | 0               | 9           | 87         | No         | 21        | 4.762        | n/a        | n/a        | 0.01        | NP        |
| <b>Fluoride, total (mg/L)</b> | <b>BY-AP-MW-16</b>     | <b>0.008725</b> | <b>101</b>  | <b>87</b>  | <b>Yes</b> | <b>21</b> | <b>23.81</b> | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| <b>Fluoride, total (mg/L)</b> | <b>BY-AP-MW-7</b>      | <b>0.006166</b> | <b>89</b>   | <b>87</b>  | <b>Yes</b> | <b>21</b> | <b>0</b>     | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| <b>Fluoride, total (mg/L)</b> | <b>BY-UP-MW-1 (bg)</b> | <b>0.01082</b>  | <b>100</b>  | <b>87</b>  | <b>Yes</b> | <b>21</b> | <b>52.38</b> | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| <b>Fluoride, total (mg/L)</b> | <b>BY-UP-MW-2 (bg)</b> | <b>0.01456</b>  | <b>105</b>  | <b>87</b>  | <b>Yes</b> | <b>21</b> | <b>52.38</b> | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| <b>Fluoride, total (mg/L)</b> | <b>BY-UP-MW-3 (bg)</b> | <b>0.00566</b>  | <b>106</b>  | <b>87</b>  | <b>Yes</b> | <b>21</b> | <b>66.67</b> | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| <b>Fluoride, total (mg/L)</b> | <b>BY-UP-MW-4 (bg)</b> | <b>0.00566</b>  | <b>106</b>  | <b>87</b>  | <b>Yes</b> | <b>21</b> | <b>66.67</b> | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| pH, field (SU)                | BY-AP-MW-10            | -0.0135         | -31         | -98        | No         | 23        | 0            | n/a        | n/a        | 0.01        | NP        |
| <b>pH, field (SU)</b>         | <b>BY-AP-MW-2</b>      | <b>-0.09288</b> | <b>-164</b> | <b>-98</b> | <b>Yes</b> | <b>23</b> | <b>0</b>     | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| pH, field (SU)                | BY-AP-MW-3             | -0.0262         | -71         | -98        | No         | 23        | 0            | n/a        | n/a        | 0.01        | NP        |
| pH, field (SU)                | BY-AP-MW-7             | 0.01492         | 61          | 92         | No         | 22        | 0            | n/a        | n/a        | 0.01        | NP        |
| pH, field (SU)                | BY-AP-MW-8             | 0               | -13         | -98        | No         | 23        | 0            | n/a        | n/a        | 0.01        | NP        |
| pH, field (SU)                | BY-UP-MW-1 (bg)        | -0.002988       | -13         | -92        | No         | 22        | 0            | n/a        | n/a        | 0.01        | NP        |
| <b>pH, field (SU)</b>         | <b>BY-UP-MW-2 (bg)</b> | <b>-0.05688</b> | <b>-140</b> | <b>-92</b> | <b>Yes</b> | <b>22</b> | <b>0</b>     | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| <b>pH, field (SU)</b>         | <b>BY-UP-MW-3 (bg)</b> | <b>-0.07203</b> | <b>-134</b> | <b>-92</b> | <b>Yes</b> | <b>22</b> | <b>0</b>     | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| <b>pH, field (SU)</b>         | <b>BY-UP-MW-4 (bg)</b> | <b>-0.03806</b> | <b>-111</b> | <b>-92</b> | <b>Yes</b> | <b>22</b> | <b>0</b>     | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| <b>Sulfate as SO4 (mg/L)</b>  | <b>BY-AP-MW-1</b>      | <b>2.168</b>    | <b>137</b>  | <b>87</b>  | <b>Yes</b> | <b>21</b> | <b>28.57</b> | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| <b>Sulfate as SO4 (mg/L)</b>  | <b>BY-AP-MW-10</b>     | <b>1.096</b>    | <b>94</b>   | <b>87</b>  | <b>Yes</b> | <b>21</b> | <b>42.86</b> | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| <b>Sulfate as SO4 (mg/L)</b>  | <b>BY-AP-MW-11</b>     | <b>7.332</b>    | <b>147</b>  | <b>87</b>  | <b>Yes</b> | <b>21</b> | <b>28.57</b> | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| <b>Sulfate as SO4 (mg/L)</b>  | <b>BY-AP-MW-12</b>     | <b>2.242</b>    | <b>104</b>  | <b>81</b>  | <b>Yes</b> | <b>20</b> | <b>45</b>    | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| <b>Sulfate as SO4 (mg/L)</b>  | <b>BY-AP-MW-13</b>     | <b>3.326</b>    | <b>96</b>   | <b>81</b>  | <b>Yes</b> | <b>20</b> | <b>25</b>    | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| <b>Sulfate as SO4 (mg/L)</b>  | <b>BY-AP-MW-14</b>     | <b>11.37</b>    | <b>112</b>  | <b>81</b>  | <b>Yes</b> | <b>20</b> | <b>45</b>    | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| <b>Sulfate as SO4 (mg/L)</b>  | <b>BY-AP-MW-15</b>     | <b>0.03312</b>  | <b>47</b>   | <b>87</b>  | <b>No</b>  | <b>21</b> | <b>47.62</b> | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |

# Trend Tests - Prediction Limit Exceedances - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 6/7/2023, 12:15 AM

| Constituent                  | Well                   | Slope         | Calc.      | Critical  | Sig.       | N         | %NDs         | Normality  | Xform      | Alpha       | Method    |
|------------------------------|------------------------|---------------|------------|-----------|------------|-----------|--------------|------------|------------|-------------|-----------|
| Sulfate as SO4 (mg/L)        | BY-AP-MW-16            | 0.2304        | 47         | 74        | No         | 19        | 47.37        | n/a        | n/a        | 0.01        | NP        |
| <b>Sulfate as SO4 (mg/L)</b> | <b>BY-AP-MW-5</b>      | <b>0.829</b>  | <b>89</b>  | <b>74</b> | <b>Yes</b> | <b>19</b> | <b>47.37</b> | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| Sulfate as SO4 (mg/L)        | BY-AP-MW-7             | 0.9419        | 97         | 81        | Yes        | 20        | 30           | n/a        | n/a        | 0.01        | NP        |
| Sulfate as SO4 (mg/L)        | BY-AP-MW-8             | 2.016         | 127        | 87        | Yes        | 21        | 47.62        | n/a        | n/a        | 0.01        | NP        |
| <b>Sulfate as SO4 (mg/L)</b> | <b>BY-AP-MW-9</b>      | <b>0.4966</b> | <b>90</b>  | <b>87</b> | <b>Yes</b> | <b>21</b> | <b>42.86</b> | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| Sulfate as SO4 (mg/L)        | BY-UP-MW-1 (bg)        | 0.7972        | 50         | 81        | No         | 20        | 0            | n/a        | n/a        | 0.01        | NP        |
| Sulfate as SO4 (mg/L)        | BY-UP-MW-2 (bg)        | 0.1304        | 22         | 74        | No         | 19        | 0            | n/a        | n/a        | 0.01        | NP        |
| Sulfate as SO4 (mg/L)        | BY-UP-MW-3 (bg)        | -0.07299      | -38        | -81       | No         | 20        | 0            | n/a        | n/a        | 0.01        | NP        |
| Sulfate as SO4 (mg/L)        | BY-UP-MW-4 (bg)        | -0.06997      | -35        | -81       | No         | 20        | 0            | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)                   | BY-AP-MW-1             | -3.188        | -36        | -87       | No         | 21        | 0            | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)                   | BY-AP-MW-10            | 5.242         | 79         | 87        | No         | 21        | 0            | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)                   | BY-AP-MW-11            | 6.294         | 77         | 87        | No         | 21        | 0            | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)                   | BY-AP-MW-12            | -0.6998       | -9         | -87       | No         | 21        | 0            | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)                   | BY-AP-MW-13            | -5.299        | -75        | -87       | No         | 21        | 0            | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)                   | BY-AP-MW-14            | 2.236         | 44         | 87        | No         | 21        | 0            | n/a        | n/a        | 0.01        | NP        |
| <b>TDS (mg/L)</b>            | <b>BY-AP-MW-15</b>     | <b>15.94</b>  | <b>162</b> | <b>87</b> | <b>Yes</b> | <b>21</b> | <b>0</b>     | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| TDS (mg/L)                   | BY-AP-MW-16            | 6.148         | 82         | 87        | No         | 21        | 0            | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)                   | BY-AP-MW-4             | 2.211         | 64         | 87        | No         | 21        | 0            | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)                   | BY-AP-MW-5             | -4.862        | -68        | -81       | No         | 20        | 0            | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)                   | BY-AP-MW-7             | 2.958         | 66         | 81        | No         | 20        | 0            | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)                   | BY-AP-MW-8             | -2.208        | -40        | -87       | No         | 21        | 0            | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)                   | BY-AP-MW-9             | -3.065        | -62        | -87       | No         | 21        | 0            | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)                   | BY-UP-MW-1 (bg)        | 1.942         | 51         | 81        | No         | 20        | 10           | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)                   | BY-UP-MW-2 (bg)        | 0.9688        | 48         | 81        | No         | 20        | 10           | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)                   | BY-UP-MW-3 (bg)        | 0.7112        | 31         | 81        | No         | 20        | 0            | n/a        | n/a        | 0.01        | NP        |
| <b>TDS (mg/L)</b>            | <b>BY-UP-MW-4 (bg)</b> | <b>1.876</b>  | <b>95</b>  | <b>81</b> | <b>Yes</b> | <b>20</b> | <b>20</b>    | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |

# Upper Tolerance Limits - Summary Table

Plant Barry    Client: Southern Company    Data: Barry Ash Pond    Printed 1/19/2022, 3:44 PM

| <u>Constituent</u>                | <u>Well</u> | <u>Upper Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bq N</u> | <u>Bq Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|-----------------------------------|-------------|-------------------|-------------|----------------|-------------|-------------|----------------|------------------|-------------|----------------|------------------|--------------|---------------|
| Antimony (mg/L)                   | n/a         | 0.00102           | n/a         | n/a            | n/a         | 68          | n/a            | n/a              | 92.65       | n/a            | n/a              | 0.03056      | NP Inter      |
| Arsenic (mg/L)                    | n/a         | 0.0017            | n/a         | n/a            | n/a         | 68          | n/a            | n/a              | 88.24       | n/a            | n/a              | 0.03056      | NP Inter      |
| Barium (mg/L)                     | n/a         | 0.183             | n/a         | n/a            | n/a         | 68          | n/a            | n/a              | 0           | n/a            | n/a              | 0.03056      | NP Inter      |
| Beryllium (mg/L)                  | n/a         | 0.00102           | n/a         | n/a            | n/a         | 66          | n/a            | n/a              | 93.94       | n/a            | n/a              | 0.03387      | NP Inter      |
| Cadmium (mg/L)                    | n/a         | 0.0002            | n/a         | n/a            | n/a         | 68          | n/a            | n/a              | 98.53       | n/a            | n/a              | 0.03056      | NP Inter      |
| Chromium (mg/L)                   | n/a         | 0.01              | n/a         | n/a            | n/a         | 68          | n/a            | n/a              | 83.82       | n/a            | n/a              | 0.03056      | NP Inter      |
| Cobalt (mg/L)                     | n/a         | 0.0157            | n/a         | n/a            | n/a         | 67          | n/a            | n/a              | 58.21       | n/a            | n/a              | 0.03217      | NP Inter      |
| Combined Radium 226 + 228 (pCi/L) | n/a         | 3                 | n/a         | n/a            | n/a         | 60          | n/a            | n/a              | 0           | n/a            | n/a              | 0.04607      | NP Inter      |
| Fluoride, total (mg/L)            | n/a         | 0.1               | n/a         | n/a            | n/a         | 72          | n/a            | n/a              | 52.78       | n/a            | n/a              | 0.02489      | NP Inter      |
| Lead (mg/L)                       | n/a         | 0.00126           | n/a         | n/a            | n/a         | 68          | n/a            | n/a              | 89.71       | n/a            | n/a              | 0.03056      | NP Inter      |
| Lithium (mg/L)                    | n/a         | 0.02              | n/a         | n/a            | n/a         | 68          | n/a            | n/a              | 100         | n/a            | n/a              | 0.03056      | NP Inter      |
| Mercury (mg/L)                    | n/a         | 0.0005            | n/a         | n/a            | n/a         | 68          | n/a            | n/a              | 100         | n/a            | n/a              | 0.03056      | NP Inter      |
| Molybdenum (mg/L)                 | n/a         | 0.0002            | n/a         | n/a            | n/a         | 68          | n/a            | n/a              | 100         | n/a            | n/a              | 0.03056      | NP Inter      |
| Selenium (mg/L)                   | n/a         | 0.00102           | n/a         | n/a            | n/a         | 68          | n/a            | n/a              | 98.53       | n/a            | n/a              | 0.03056      | NP Inter      |
| Thallium (mg/L)                   | n/a         | 0.0002            | n/a         | n/a            | n/a         | 68          | n/a            | n/a              | 100         | n/a            | n/a              | 0.03056      | NP Inter      |



| <b>BARRY ASH POND GWPS</b> |              |                   |             |
|----------------------------|--------------|-------------------|-------------|
| <b>Analyte</b>             | <b>Units</b> | <b>Background</b> | <b>GWPS</b> |
| 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. The background limits were used as the groundwater protection standard (GWPS) when appropriate under 40 CFR §257.95(h), ADEM Rule 335-13-15-.06(h), and the ADEM Variance.
4. GWPS established during second semi-annual sampling event in 2021.

# Confidence Interval Summary Table - Significant Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 6/22/2023, 11:30 AM

| Constituent    | Well        | Upper Lim. | Lower Lim. | Compliance | Sig. | N | %NDs | ND Adj. | Transform | Alpha | Method         |
|----------------|-------------|------------|------------|------------|------|---|------|---------|-----------|-------|----------------|
| Arsenic (mg/L) | BY-AP-MW-1  | 0.07707    | 0.06075    | 0.01       | Yes  | 8 | 0    | None    | No        | 0.01  | Param.         |
| Arsenic (mg/L) | BY-AP-MW-10 | 0.07752    | 0.06536    | 0.01       | Yes  | 8 | 0    | None    | x^4       | 0.01  | Param.         |
| Arsenic (mg/L) | BY-AP-MW-11 | 0.01656    | 0.01376    | 0.01       | Yes  | 8 | 0    | None    | No        | 0.01  | Param.         |
| Arsenic (mg/L) | BY-AP-MW-12 | 0.0246     | 0.0218     | 0.01       | Yes  | 8 | 0    | None    | No        | 0.004 | NP (normality) |
| Arsenic (mg/L) | BY-AP-MW-14 | 0.01806    | 0.01633    | 0.01       | Yes  | 8 | 0    | None    | x^4       | 0.01  | Param.         |
| Arsenic (mg/L) | BY-AP-MW-15 | 0.01982    | 0.01723    | 0.01       | Yes  | 8 | 0    | None    | No        | 0.01  | Param.         |
| Arsenic (mg/L) | BY-AP-MW-16 | 0.01561    | 0.01226    | 0.01       | Yes  | 8 | 0    | None    | No        | 0.01  | Param.         |
| Arsenic (mg/L) | BY-AP-MW-5  | 0.03662    | 0.02501    | 0.01       | Yes  | 8 | 0    | None    | No        | 0.01  | Param.         |
| Arsenic (mg/L) | BY-AP-MW-7  | 0.02364    | 0.01508    | 0.01       | Yes  | 8 | 0    | None    | x^3       | 0.01  | Param.         |
| Arsenic (mg/L) | BY-AP-MW-8  | 0.06782    | 0.03745    | 0.01       | Yes  | 8 | 0    | None    | x^2       | 0.01  | Param.         |
| Arsenic (mg/L) | BY-AP-MW-9  | 0.04644    | 0.0263     | 0.01       | Yes  | 8 | 0    | None    | x^2       | 0.01  | Param.         |
| Cobalt (mg/L)  | BY-AP-MW-15 | 0.03696    | 0.03371    | 0.0157     | Yes  | 8 | 0    | None    | No        | 0.01  | Param.         |

# Confidence Interval Summary Table - All Results

Plant Barry    Client: Southern Company    Data: Barry Ash Pond    Printed 6/22/2023, 11:30 AM

| Constituent                       | Well        | Upper Lim. | Lower Lim. | Compliance | Sig. | N | %NDs | ND Adj.      | Transform | Alpha | Method         |
|-----------------------------------|-------------|------------|------------|------------|------|---|------|--------------|-----------|-------|----------------|
| Arsenic (mg/L)                    | BY-AP-MW-1  | 0.07707    | 0.06075    | 0.01       | Yes  | 8 | 0    | None         | No        | 0.01  | Param.         |
| Arsenic (mg/L)                    | BY-AP-MW-10 | 0.07752    | 0.06536    | 0.01       | Yes  | 8 | 0    | None         | x^4       | 0.01  | Param.         |
| Arsenic (mg/L)                    | BY-AP-MW-11 | 0.01656    | 0.01376    | 0.01       | Yes  | 8 | 0    | None         | No        | 0.01  | Param.         |
| Arsenic (mg/L)                    | BY-AP-MW-12 | 0.0246     | 0.0218     | 0.01       | Yes  | 8 | 0    | None         | No        | 0.004 | NP (normality) |
| Arsenic (mg/L)                    | BY-AP-MW-13 | 0.01813    | 0.009785   | 0.01       | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Arsenic (mg/L)                    | BY-AP-MW-14 | 0.01806    | 0.01633    | 0.01       | Yes  | 8 | 0    | None         | x^4       | 0.01  | Param.         |
| Arsenic (mg/L)                    | BY-AP-MW-15 | 0.01982    | 0.01723    | 0.01       | Yes  | 8 | 0    | None         | No        | 0.01  | Param.         |
| Arsenic (mg/L)                    | BY-AP-MW-16 | 0.01561    | 0.01226    | 0.01       | Yes  | 8 | 0    | None         | No        | 0.01  | Param.         |
| Arsenic (mg/L)                    | BY-AP-MW-2  | 0.001788   | 0.001305   | 0.01       | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Arsenic (mg/L)                    | BY-AP-MW-3  | 0.000455   | 0.000102   | 0.01       | No   | 8 | 75   | None         | No        | 0.004 | NP (NDs)       |
| Arsenic (mg/L)                    | BY-AP-MW-4  | 0.000203   | 0.000099   | 0.01       | No   | 8 | 62.5 | None         | No        | 0.004 | NP (NDs)       |
| Arsenic (mg/L)                    | BY-AP-MW-5  | 0.03662    | 0.02501    | 0.01       | Yes  | 8 | 0    | None         | No        | 0.01  | Param.         |
| Arsenic (mg/L)                    | BY-AP-MW-6  | 0.000203   | 0.0001     | 0.01       | No   | 8 | 75   | None         | No        | 0.004 | NP (NDs)       |
| Arsenic (mg/L)                    | BY-AP-MW-7  | 0.02364    | 0.01508    | 0.01       | Yes  | 8 | 0    | None         | x^3       | 0.01  | Param.         |
| Arsenic (mg/L)                    | BY-AP-MW-8  | 0.06782    | 0.03745    | 0.01       | Yes  | 8 | 0    | None         | x^2       | 0.01  | Param.         |
| Arsenic (mg/L)                    | BY-AP-MW-9  | 0.04644    | 0.0263     | 0.01       | Yes  | 8 | 0    | None         | x^2       | 0.01  | Param.         |
| Barium (mg/L)                     | BY-AP-MW-1  | 0.3437     | 0.2591     | 2          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Barium (mg/L)                     | BY-AP-MW-10 | 0.07493    | 0.06092    | 2          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Barium (mg/L)                     | BY-AP-MW-11 | 0.09886    | 0.06884    | 2          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Barium (mg/L)                     | BY-AP-MW-12 | 0.08667    | 0.07658    | 2          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Barium (mg/L)                     | BY-AP-MW-13 | 0.08002    | 0.06153    | 2          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Barium (mg/L)                     | BY-AP-MW-14 | 0.0714     | 0.06047    | 2          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Barium (mg/L)                     | BY-AP-MW-15 | 0.08227    | 0.06793    | 2          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Barium (mg/L)                     | BY-AP-MW-16 | 0.1004     | 0.08487    | 2          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Barium (mg/L)                     | BY-AP-MW-2  | 0.02738    | 0.02049    | 2          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Barium (mg/L)                     | BY-AP-MW-3  | 0.04437    | 0.02963    | 2          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Barium (mg/L)                     | BY-AP-MW-4  | 0.118      | 0.0131     | 2          | No   | 8 | 0    | None         | No        | 0.004 | NP (normality) |
| Barium (mg/L)                     | BY-AP-MW-5  | 0.1603     | 0.1132     | 2          | No   | 8 | 0    | None         | x^3       | 0.01  | Param.         |
| Barium (mg/L)                     | BY-AP-MW-6  | 0.02925    | 0.02525    | 2          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Barium (mg/L)                     | BY-AP-MW-7  | 0.07384    | 0.04287    | 2          | No   | 8 | 0    | None         | x^3       | 0.01  | Param.         |
| Barium (mg/L)                     | BY-AP-MW-8  | 0.1506     | 0.1252     | 2          | No   | 8 | 0    | None         | x^6       | 0.01  | Param.         |
| Barium (mg/L)                     | BY-AP-MW-9  | 0.1256     | 0.1139     | 2          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Beryllium (mg/L)                  | BY-AP-MW-4  | 0.00102    | 0.000432   | 0.004      | No   | 8 | 62.5 | None         | No        | 0.004 | NP (NDs)       |
| Cadmium (mg/L)                    | BY-AP-MW-4  | 0.0002     | 0.00009    | 0.005      | No   | 8 | 75   | None         | No        | 0.004 | NP (NDs)       |
| Cadmium (mg/L)                    | BY-AP-MW-6  | 0.00031    | 0.000068   | 0.005      | No   | 8 | 62.5 | None         | No        | 0.004 | NP (NDs)       |
| Chromium (mg/L)                   | BY-AP-MW-1  | 0.00638    | 0.00236    | 0.1        | No   | 8 | 0    | None         | No        | 0.004 | NP (normality) |
| Chromium (mg/L)                   | BY-AP-MW-10 | 0.01       | 0.00052    | 0.1        | No   | 8 | 37.5 | None         | No        | 0.004 | NP (normality) |
| Chromium (mg/L)                   | BY-AP-MW-11 | 0.004001   | 0.002344   | 0.1        | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Chromium (mg/L)                   | BY-AP-MW-12 | 0.0056     | 0.00325    | 0.1        | No   | 8 | 0    | None         | No        | 0.004 | NP (normality) |
| Chromium (mg/L)                   | BY-AP-MW-13 | 0.009056   | 0.005476   | 0.1        | No   | 8 | 0    | None         | x^2       | 0.01  | Param.         |
| Chromium (mg/L)                   | BY-AP-MW-14 | 0.004798   | 0.003245   | 0.1        | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Chromium (mg/L)                   | BY-AP-MW-15 | 0.01       | 0.000361   | 0.1        | No   | 8 | 37.5 | None         | No        | 0.004 | NP (normality) |
| Chromium (mg/L)                   | BY-AP-MW-16 | 0.01       | 0.00122    | 0.1        | No   | 8 | 37.5 | None         | No        | 0.004 | NP (normality) |
| Chromium (mg/L)                   | BY-AP-MW-2  | 0.00102    | 0.000206   | 0.1        | No   | 8 | 50   | None         | No        | 0.004 | NP (normality) |
| Chromium (mg/L)                   | BY-AP-MW-3  | 0.01       | 0.00053    | 0.1        | No   | 8 | 37.5 | None         | No        | 0.004 | NP (normality) |
| Chromium (mg/L)                   | BY-AP-MW-4  | 0.01       | 0.00026    | 0.1        | No   | 8 | 37.5 | None         | No        | 0.004 | NP (normality) |
| Chromium (mg/L)                   | BY-AP-MW-5  | 0.01       | 0.000894   | 0.1        | No   | 8 | 50   | None         | No        | 0.004 | NP (normality) |
| Chromium (mg/L)                   | BY-AP-MW-6  | 0.01       | 0.00023    | 0.1        | No   | 8 | 37.5 | None         | No        | 0.004 | NP (normality) |
| Chromium (mg/L)                   | BY-AP-MW-7  | 0.01       | 0.000246   | 0.1        | No   | 8 | 37.5 | None         | No        | 0.004 | NP (normality) |
| Chromium (mg/L)                   | BY-AP-MW-8  | 0.01       | 0.001      | 0.1        | No   | 8 | 37.5 | None         | No        | 0.004 | NP (normality) |
| Chromium (mg/L)                   | BY-AP-MW-9  | 0.01       | 0.00062    | 0.1        | No   | 8 | 37.5 | None         | No        | 0.004 | NP (normality) |
| Cobalt (mg/L)                     | BY-AP-MW-1  | 0.005      | 0.00091    | 0.0157     | No   | 8 | 37.5 | None         | No        | 0.004 | NP (normality) |
| Cobalt (mg/L)                     | BY-AP-MW-10 | 0.005      | 0.00054    | 0.0157     | No   | 8 | 37.5 | None         | No        | 0.004 | NP (normality) |
| Cobalt (mg/L)                     | BY-AP-MW-11 | 0.005      | 0.000946   | 0.0157     | No   | 8 | 37.5 | None         | No        | 0.004 | NP (normality) |
| Cobalt (mg/L)                     | BY-AP-MW-12 | 0.00403    | 0.003035   | 0.0157     | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Cobalt (mg/L)                     | BY-AP-MW-13 | 0.002246   | 0.0008853  | 0.0157     | No   | 8 | 37.5 | Kaplan-Meier | x^(1/3)   | 0.01  | Param.         |
| Cobalt (mg/L)                     | BY-AP-MW-14 | 0.005      | 0.00119    | 0.0157     | No   | 8 | 37.5 | None         | No        | 0.004 | NP (normality) |
| Cobalt (mg/L)                     | BY-AP-MW-15 | 0.03696    | 0.03371    | 0.0157     | Yes  | 8 | 0    | None         | No        | 0.01  | Param.         |
| Cobalt (mg/L)                     | BY-AP-MW-16 | 0.01936    | 0.008818   | 0.0157     | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Cobalt (mg/L)                     | BY-AP-MW-2  | 0.007613   | 0.005148   | 0.0157     | No   | 8 | 0    | None         | x^2       | 0.01  | Param.         |
| Cobalt (mg/L)                     | BY-AP-MW-3  | 0.005      | 0.000108   | 0.0157     | No   | 8 | 37.5 | None         | No        | 0.004 | NP (normality) |
| Cobalt (mg/L)                     | BY-AP-MW-4  | 0.01353    | 0.002498   | 0.0157     | No   | 8 | 12.5 | None         | ln(x)     | 0.01  | Param.         |
| Cobalt (mg/L)                     | BY-AP-MW-5  | 0.005      | 0.00112    | 0.0157     | No   | 8 | 50   | None         | No        | 0.004 | NP (normality) |
| Cobalt (mg/L)                     | BY-AP-MW-6  | 0.005      | 0.000584   | 0.0157     | No   | 8 | 37.5 | None         | No        | 0.004 | NP (normality) |
| Cobalt (mg/L)                     | BY-AP-MW-7  | 0.02223    | 0.009928   | 0.0157     | No   | 8 | 0    | None         | x^2       | 0.01  | Param.         |
| Cobalt (mg/L)                     | BY-AP-MW-8  | 0.0009974  | 0.0002687  | 0.0157     | No   | 8 | 37.5 | Kaplan-Meier | ln(x)     | 0.01  | Param.         |
| Cobalt (mg/L)                     | BY-AP-MW-9  | 0.005      | 0.00069    | 0.0157     | No   | 8 | 37.5 | None         | No        | 0.004 | NP (normality) |
| Combined Radium 226 + 228 (pCi/L) | BY-AP-MW-1  | 2.743      | 1.89       | 5          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |

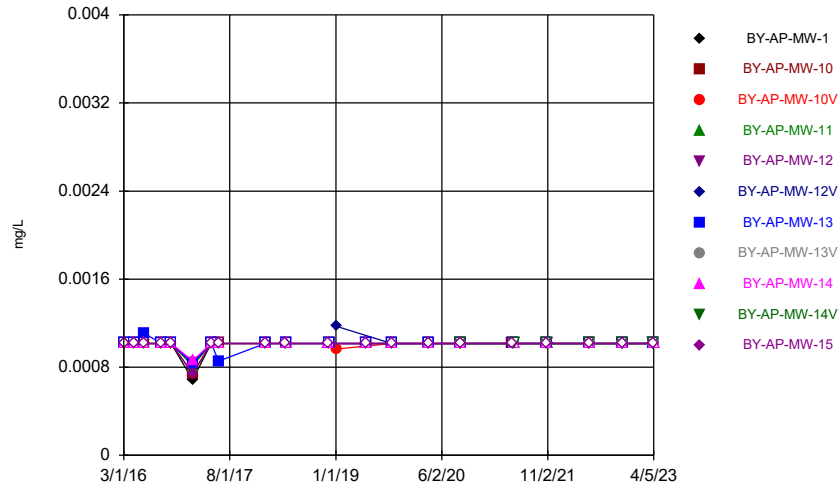
# Confidence Interval Summary Table - All Results

Plant Barry    Client: Southern Company    Data: Barry Ash Pond    Printed 6/22/2023, 11:30 AM

| Constituent                       | Well        | Upper Lim. | Lower Lim. | Compliance | Sig. | N | %NDs | ND Adj.      | Transform | Alpha | Method         |
|-----------------------------------|-------------|------------|------------|------------|------|---|------|--------------|-----------|-------|----------------|
| Combined Radium 226 + 228 (pCi/L) | BY-AP-MW-10 | 1.354      | 0.525      | 5          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Combined Radium 226 + 228 (pCi/L) | BY-AP-MW-11 | 1.15       | 0.452      | 5          | No   | 8 | 0    | None         | No        | 0.004 | NP (normality) |
| Combined Radium 226 + 228 (pCi/L) | BY-AP-MW-12 | 1.805      | 0.8693     | 5          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Combined Radium 226 + 228 (pCi/L) | BY-AP-MW-13 | 1.379      | 0.6373     | 5          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Combined Radium 226 + 228 (pCi/L) | BY-AP-MW-14 | 1.133      | 0.5117     | 5          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Combined Radium 226 + 228 (pCi/L) | BY-AP-MW-15 | 1.65       | 0.5159     | 5          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Combined Radium 226 + 228 (pCi/L) | BY-AP-MW-16 | 1.833      | 0.2699     | 5          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Combined Radium 226 + 228 (pCi/L) | BY-AP-MW-2  | 0.9204     | 0.2656     | 5          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Combined Radium 226 + 228 (pCi/L) | BY-AP-MW-3  | 1.724      | 0.4493     | 5          | No   | 8 | 0    | None         | ln(x)     | 0.01  | Param.         |
| Combined Radium 226 + 228 (pCi/L) | BY-AP-MW-4  | 1.328      | 0.485      | 5          | No   | 8 | 0    | None         | sqrt(x)   | 0.01  | Param.         |
| Combined Radium 226 + 228 (pCi/L) | BY-AP-MW-5  | 2.146      | 0.8926     | 5          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Combined Radium 226 + 228 (pCi/L) | BY-AP-MW-6  | 1.513      | 0.1585     | 5          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Combined Radium 226 + 228 (pCi/L) | BY-AP-MW-7  | 1.159      | 0.3171     | 5          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Combined Radium 226 + 228 (pCi/L) | BY-AP-MW-8  | 1.227      | 0.336      | 5          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Combined Radium 226 + 228 (pCi/L) | BY-AP-MW-9  | 1.68       | 0.6526     | 5          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Fluoride, total (mg/L)            | BY-AP-MW-1  | 0.194      | 0.0665     | 4          | No   | 8 | 0    | None         | No        | 0.004 | NP (normality) |
| Fluoride, total (mg/L)            | BY-AP-MW-10 | 0.125      | 0.0794     | 4          | No   | 8 | 75   | None         | No        | 0.004 | NP (NDs)       |
| Fluoride, total (mg/L)            | BY-AP-MW-11 | 0.1089     | 0.06453    | 4          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Fluoride, total (mg/L)            | BY-AP-MW-12 | 0.08889    | 0.06616    | 4          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Fluoride, total (mg/L)            | BY-AP-MW-13 | 0.187      | 0.0641     | 4          | No   | 8 | 0    | None         | No        | 0.004 | NP (normality) |
| Fluoride, total (mg/L)            | BY-AP-MW-14 | 0.1086     | 0.06651    | 4          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Fluoride, total (mg/L)            | BY-AP-MW-15 | 0.229      | 0.1685     | 4          | No   | 8 | 0    | None         | sqrt(x)   | 0.01  | Param.         |
| Fluoride, total (mg/L)            | BY-AP-MW-16 | 0.1181     | 0.06402    | 4          | No   | 8 | 25   | Kaplan-Meier | No        | 0.01  | Param.         |
| Fluoride, total (mg/L)            | BY-AP-MW-2  | 0.125      | 0.0711     | 4          | No   | 8 | 87.5 | None         | No        | 0.004 | NP (NDs)       |
| Fluoride, total (mg/L)            | BY-AP-MW-5  | 0.1072     | 0.05771    | 4          | No   | 8 | 12.5 | None         | No        | 0.01  | Param.         |
| Fluoride, total (mg/L)            | BY-AP-MW-7  | 0.381      | 0.0724     | 4          | No   | 8 | 0    | None         | No        | 0.004 | NP (normality) |
| Fluoride, total (mg/L)            | BY-AP-MW-8  | 0.125      | 0.0559     | 4          | No   | 8 | 37.5 | None         | No        | 0.004 | NP (normality) |
| Fluoride, total (mg/L)            | BY-AP-MW-9  | 0.0804     | 0.0625     | 4          | No   | 8 | 12.5 | None         | No        | 0.004 | NP (normality) |
| Lead (mg/L)                       | BY-AP-MW-1  | 0.0002     | 0.000092   | 0.015      | No   | 8 | 75   | None         | No        | 0.004 | NP (NDs)       |
| Lead (mg/L)                       | BY-AP-MW-11 | 0.005      | 0.000069   | 0.015      | No   | 8 | 37.5 | None         | No        | 0.004 | NP (normality) |
| Lead (mg/L)                       | BY-AP-MW-12 | 0.000326   | 0.00018    | 0.015      | No   | 8 | 62.5 | None         | No        | 0.004 | NP (NDs)       |
| Lead (mg/L)                       | BY-AP-MW-13 | 0.0002     | 0.000101   | 0.015      | No   | 8 | 62.5 | None         | No        | 0.004 | NP (NDs)       |
| Lead (mg/L)                       | BY-AP-MW-14 | 0.005      | 0.0000764  | 0.015      | No   | 8 | 37.5 | None         | No        | 0.004 | NP (normality) |
| Lead (mg/L)                       | BY-AP-MW-16 | 0.000203   | 0.000191   | 0.015      | No   | 8 | 87.5 | None         | No        | 0.004 | NP (NDs)       |
| Lead (mg/L)                       | BY-AP-MW-4  | 0.005      | 0.00007    | 0.015      | No   | 8 | 37.5 | None         | No        | 0.004 | NP (normality) |
| Lead (mg/L)                       | BY-AP-MW-6  | 0.006029   | 0.001339   | 0.015      | No   | 8 | 0    | None         | ln(x)     | 0.01  | Param.         |
| Lithium (mg/L)                    | BY-AP-MW-11 | 0.02861    | 0.01069    | 0.04       | No   | 8 | 25   | Kaplan-Meier | No        | 0.01  | Param.         |
| Lithium (mg/L)                    | BY-AP-MW-15 | 0.02058    | 0.009311   | 0.04       | No   | 8 | 25   | Kaplan-Meier | No        | 0.01  | Param.         |
| Lithium (mg/L)                    | BY-AP-MW-7  | 0.0882     | 0.0102     | 0.04       | No   | 8 | 75   | Kaplan-Meier | No        | 0.004 | NP (NDs)       |
| Molybdenum (mg/L)                 | BY-AP-MW-1  | 0.01015    | 0.00008    | 0.1        | No   | 8 | 75   | None         | No        | 0.004 | NP (NDs)       |
| Molybdenum (mg/L)                 | BY-AP-MW-11 | 0.01015    | 0.000972   | 0.1        | No   | 8 | 50   | None         | No        | 0.004 | NP (normality) |
| Molybdenum (mg/L)                 | BY-AP-MW-12 | 0.01015    | 0.000942   | 0.1        | No   | 8 | 50   | None         | No        | 0.004 | NP (normality) |
| Molybdenum (mg/L)                 | BY-AP-MW-13 | 0.0108     | 0.00043    | 0.1        | No   | 8 | 37.5 | None         | No        | 0.004 | NP (normality) |
| Molybdenum (mg/L)                 | BY-AP-MW-14 | 0.01015    | 0.00052    | 0.1        | No   | 8 | 50   | None         | No        | 0.004 | NP (normality) |
| Molybdenum (mg/L)                 | BY-AP-MW-15 | 0.01015    | 0.00171    | 0.1        | No   | 8 | 37.5 | None         | No        | 0.004 | NP (normality) |
| Molybdenum (mg/L)                 | BY-AP-MW-16 | 0.01015    | 0.000136   | 0.1        | No   | 8 | 87.5 | None         | No        | 0.004 | NP (NDs)       |
| Molybdenum (mg/L)                 | BY-AP-MW-5  | 0.01015    | 0.00011    | 0.1        | No   | 8 | 62.5 | None         | No        | 0.004 | NP (NDs)       |
| Molybdenum (mg/L)                 | BY-AP-MW-6  | 0.01015    | 0.00011    | 0.1        | No   | 8 | 50   | None         | No        | 0.004 | NP (normality) |
| Molybdenum (mg/L)                 | BY-AP-MW-7  | 0.01015    | 0.00018    | 0.1        | No   | 8 | 50   | None         | No        | 0.004 | NP (normality) |
| Molybdenum (mg/L)                 | BY-AP-MW-8  | 0.01015    | 0.00019    | 0.1        | No   | 8 | 50   | None         | No        | 0.004 | NP (normality) |
| Molybdenum (mg/L)                 | BY-AP-MW-9  | 0.01015    | 0.000157   | 0.1        | No   | 8 | 50   | None         | No        | 0.004 | NP (normality) |
| Selenium (mg/L)                   | BY-AP-MW-13 | 0.00102    | 0.00056    | 0.05       | No   | 8 | 62.5 | None         | No        | 0.004 | NP (NDs)       |

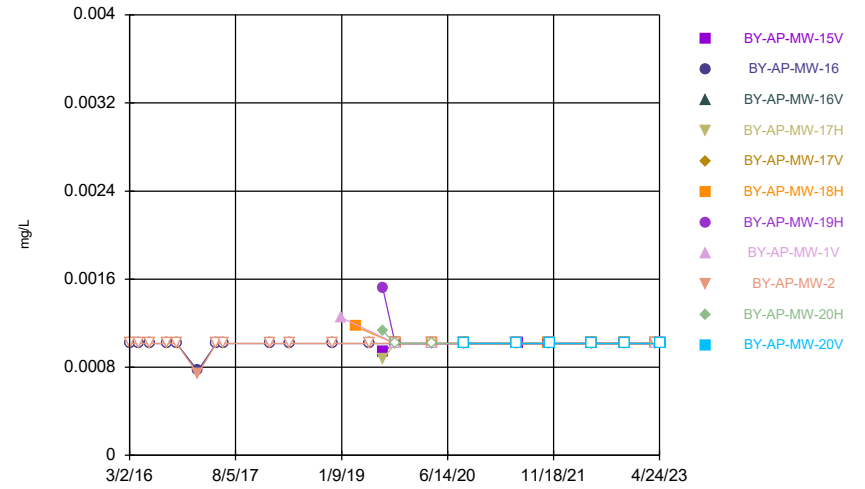
FIGURE A.

### Time Series



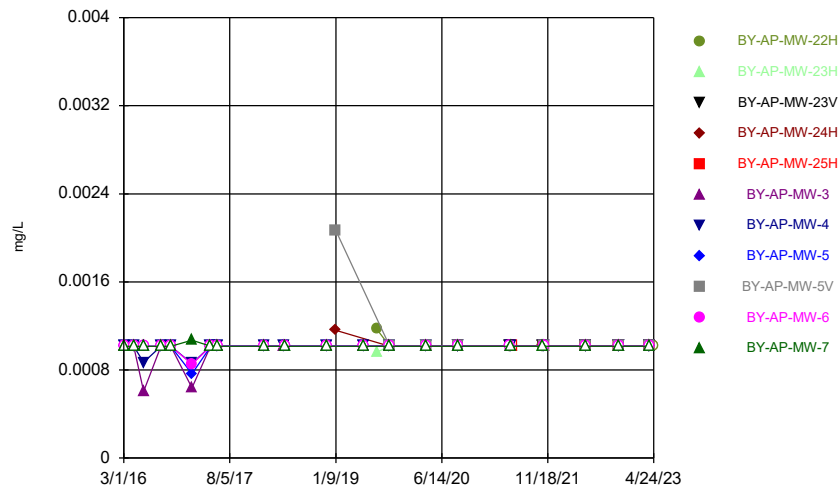
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



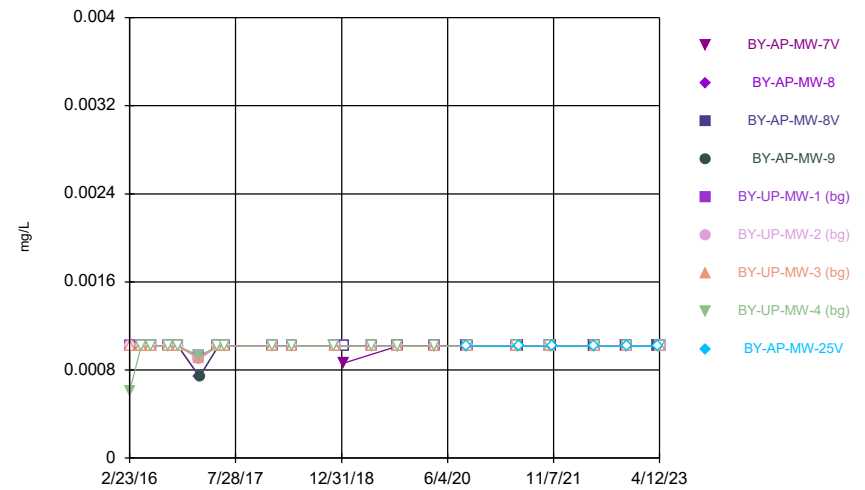
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### Time Series



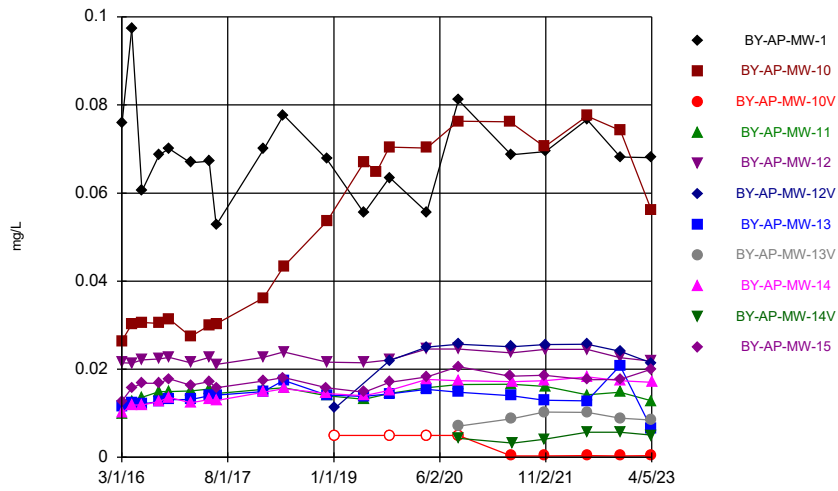
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### Time Series



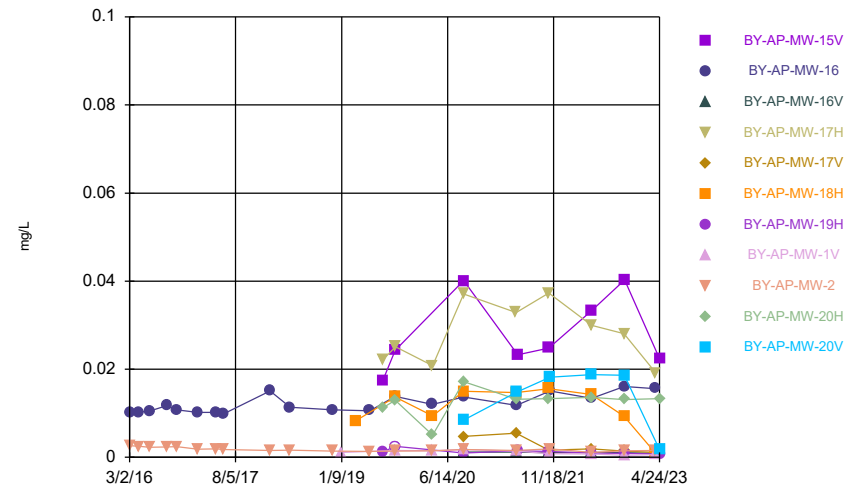
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### Time Series



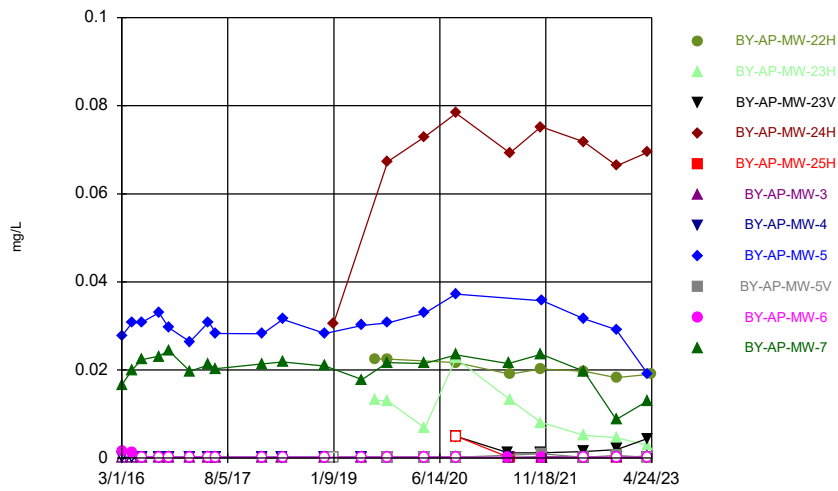
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### Time Series



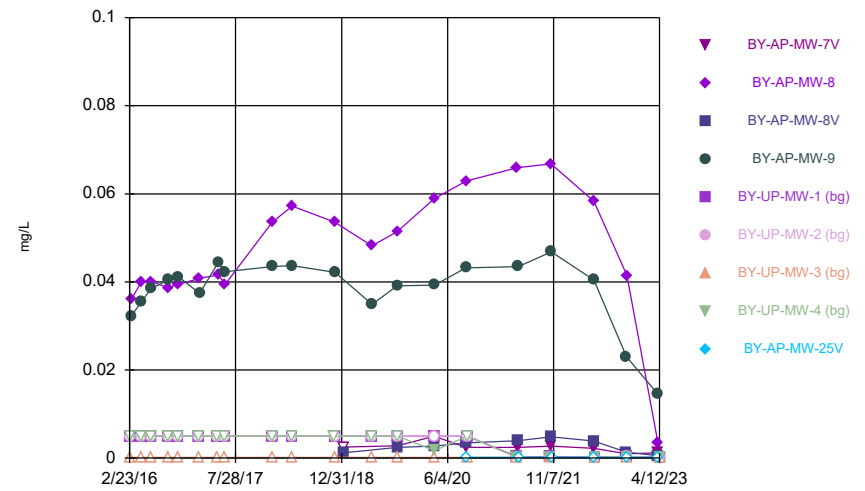
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### Time Series



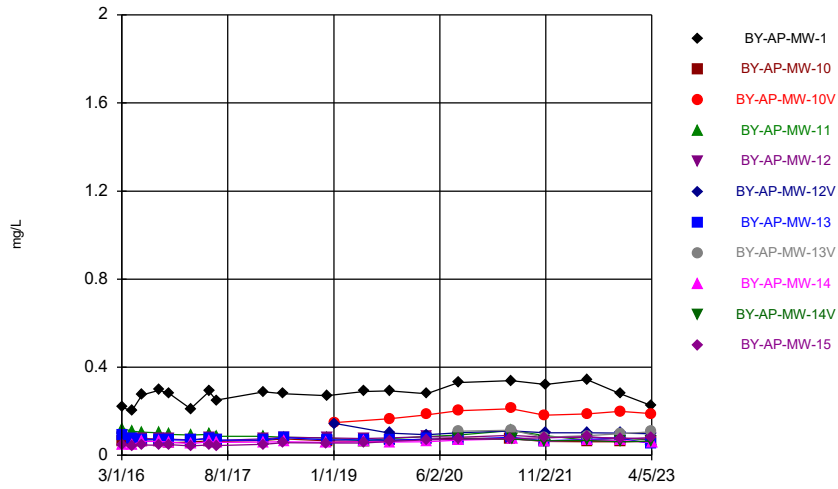
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### Time Series



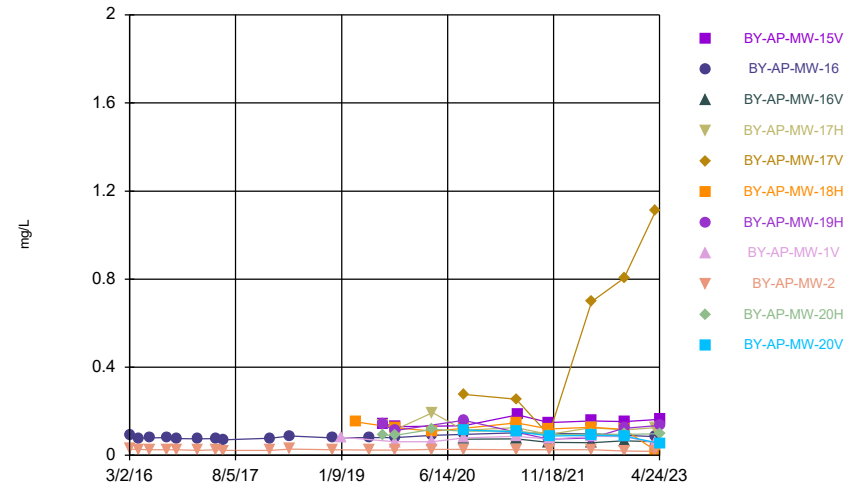
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Time Series



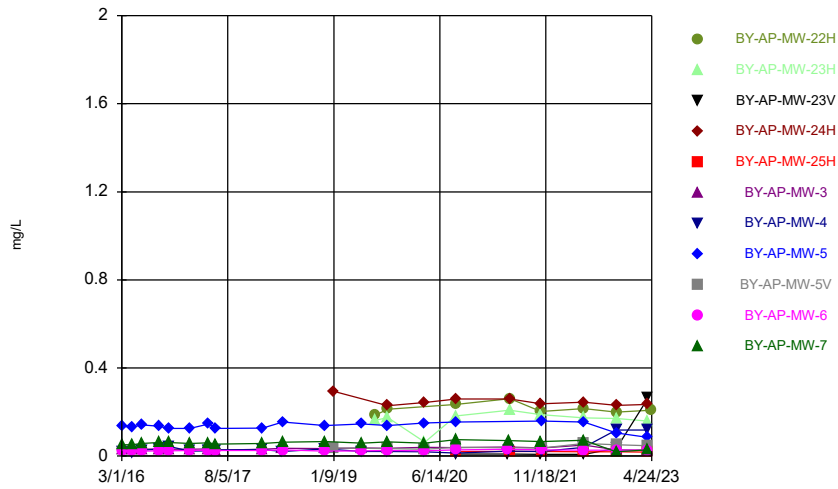
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



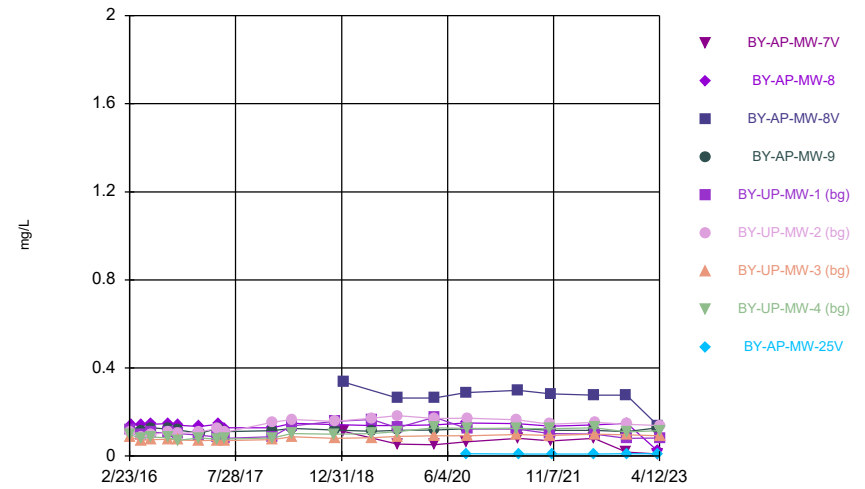
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



Constituent: Barium Analysis Run 6/23/2023 11:14 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

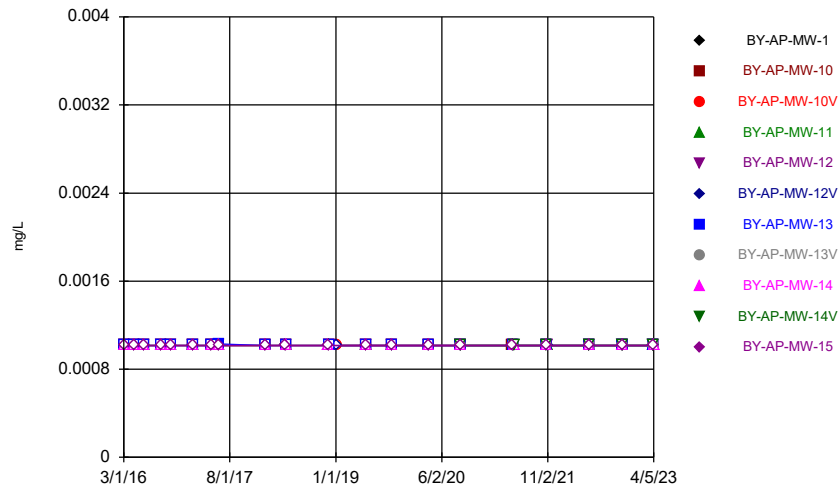
Time Series



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Plant Barry Client: Southern Company Data: Barry Ash Pond

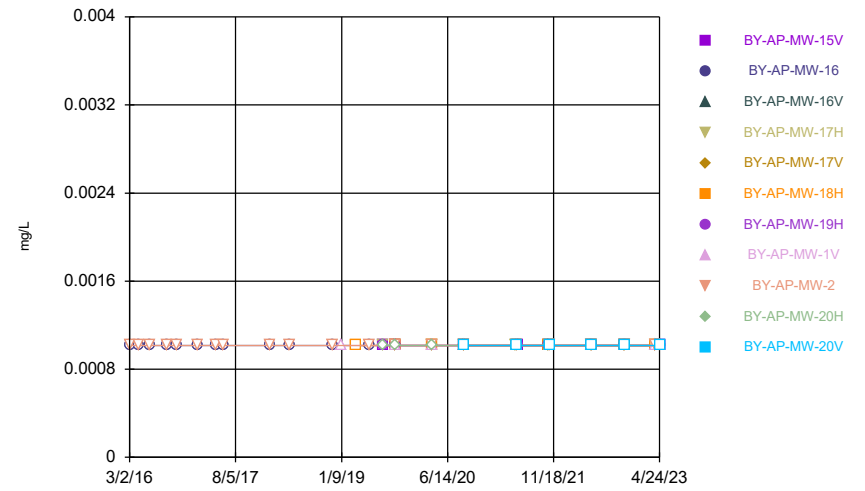


### Time Series



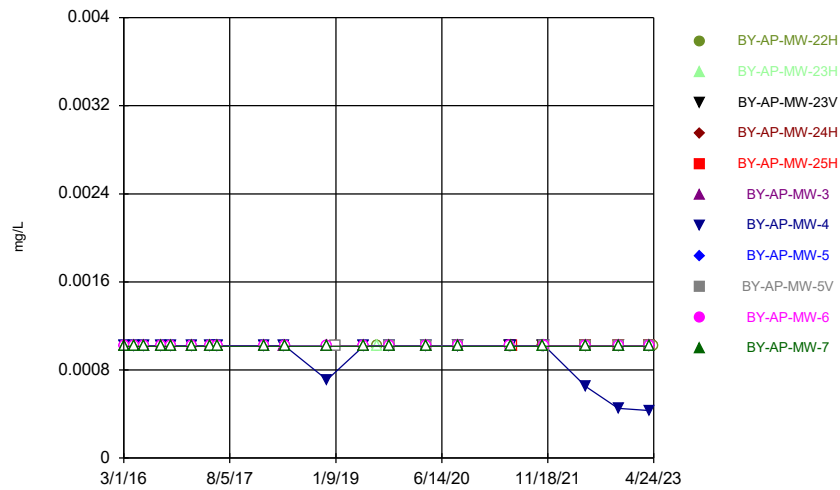
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



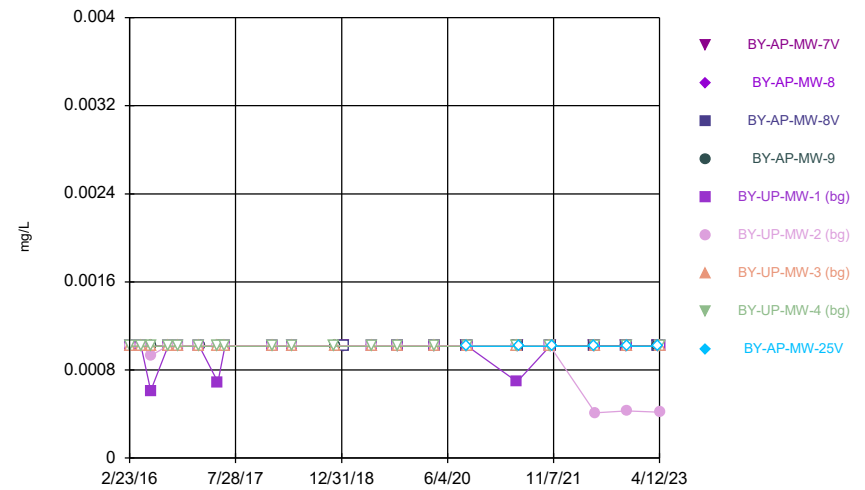
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



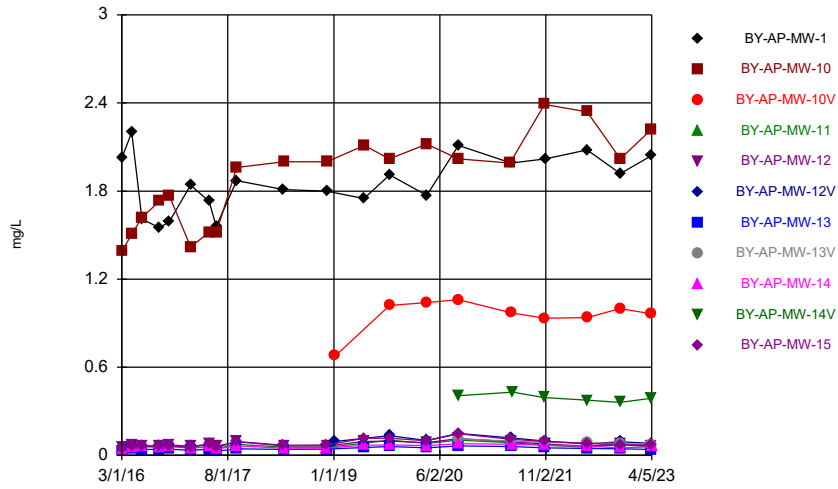
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



Constituent: Beryllium Analysis Run 6/23/2023 11:14 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

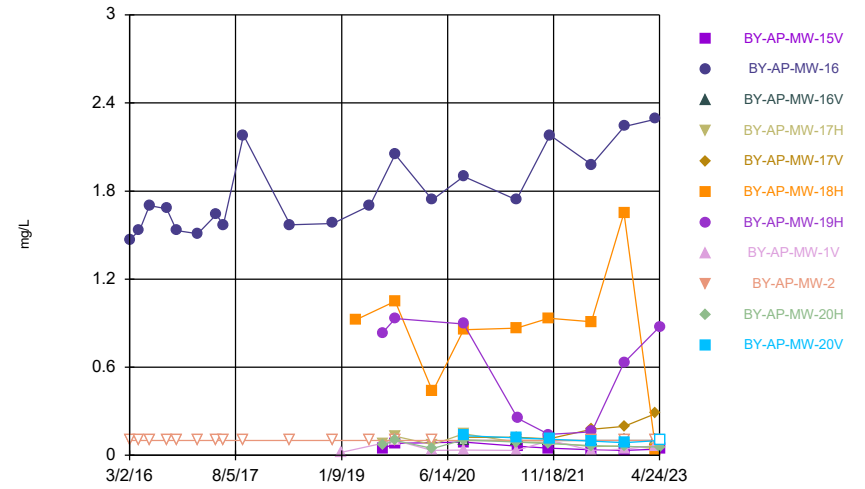
Time Series



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Plant Barry Client: Southern Company Data: Barry Ash Pond

Hollow symbols indicate censored values.

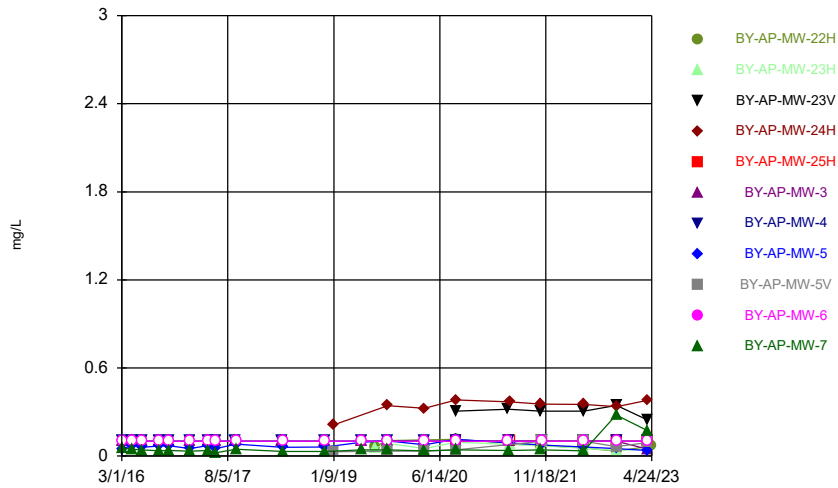
Time Series



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Plant Barry Client: Southern Company Data: Barry Ash Pond

Hollow symbols indicate censored values.

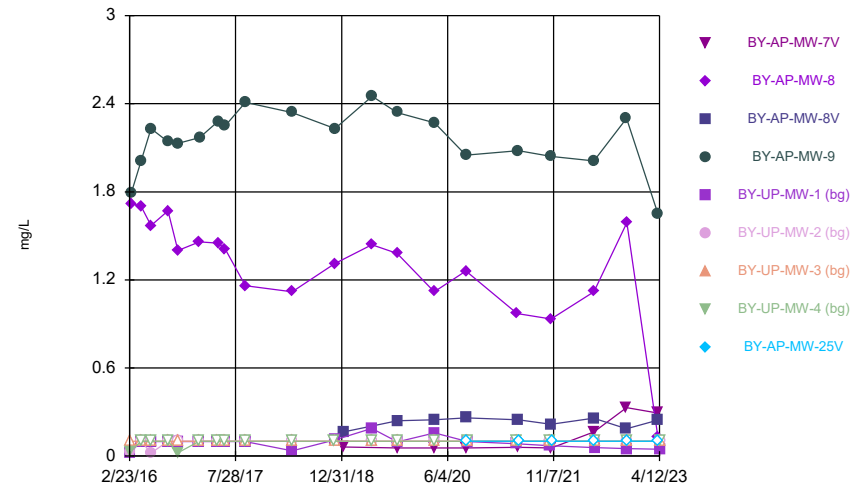
Time Series



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Plant Barry Client: Southern Company Data: Barry Ash Pond

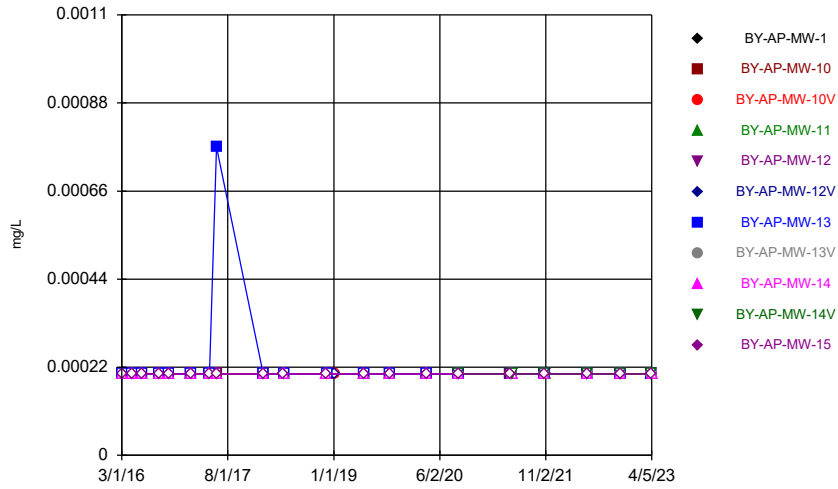
Hollow symbols indicate censored values.

Time Series



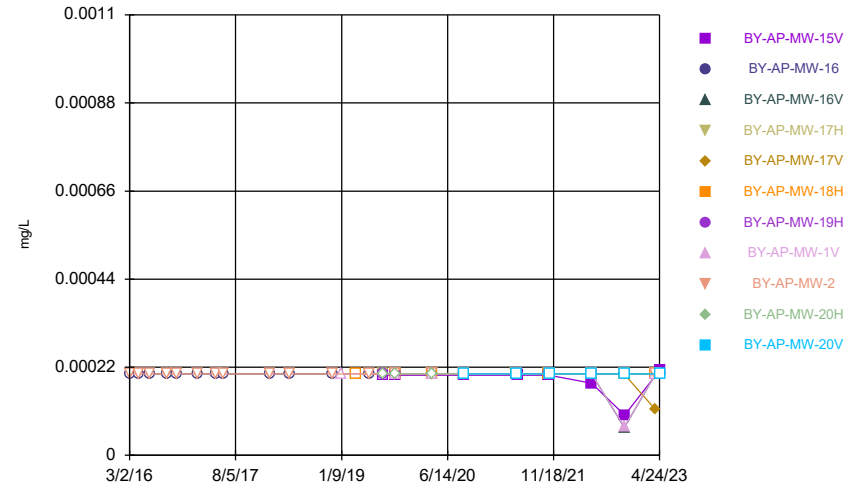
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



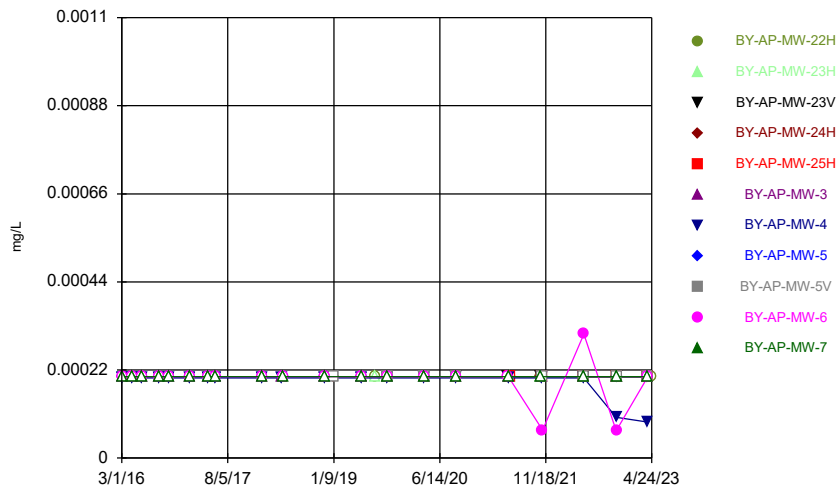
Constituent: Cadmium Analysis Run 6/23/2023 11:14 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



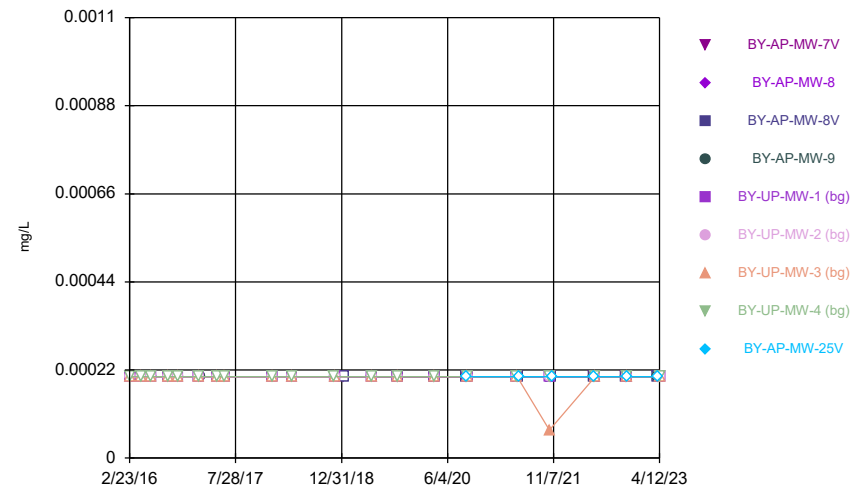
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



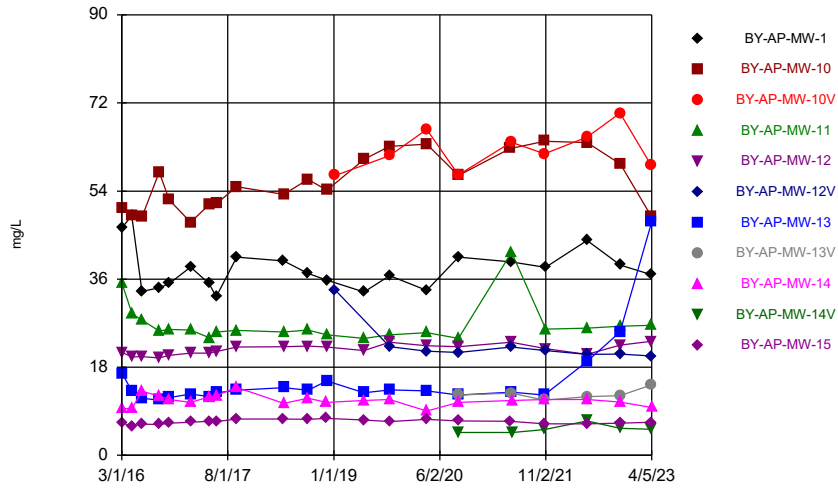
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



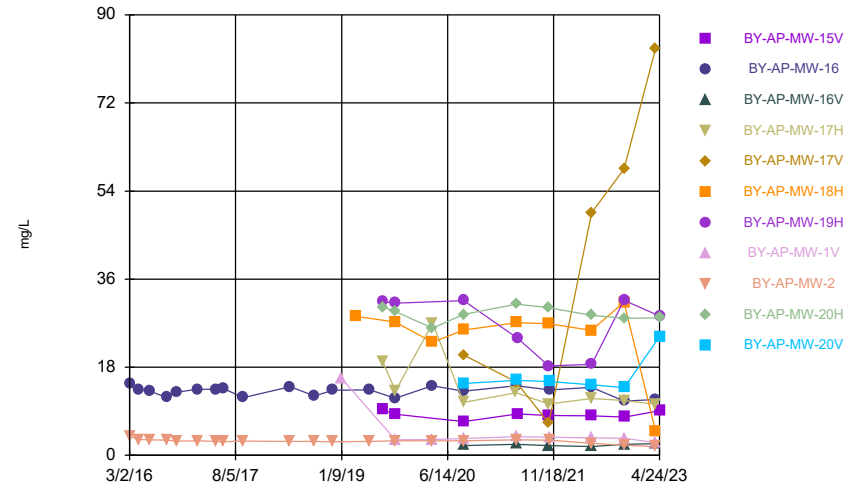
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



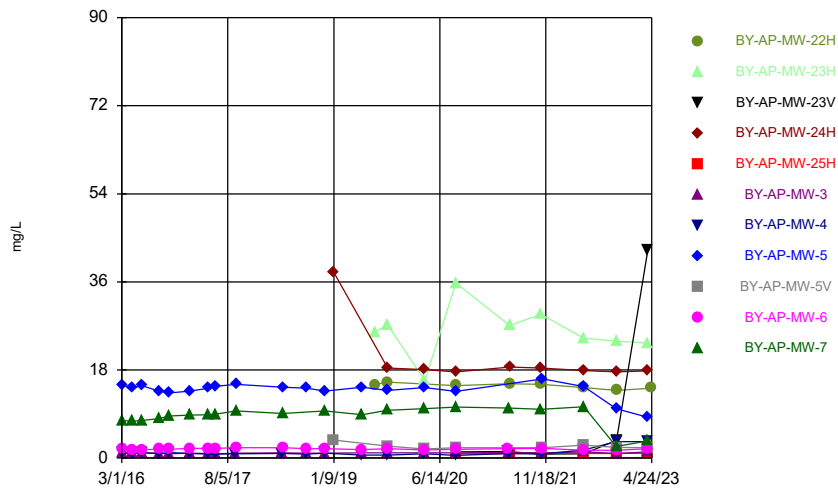
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



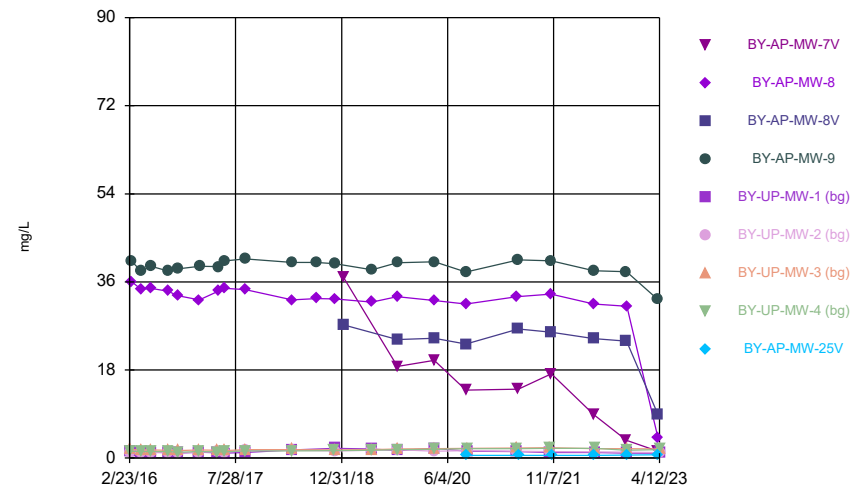
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



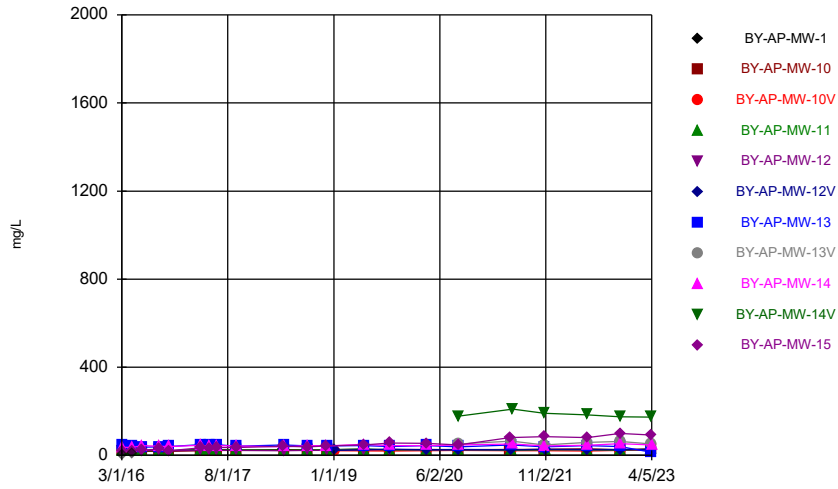
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



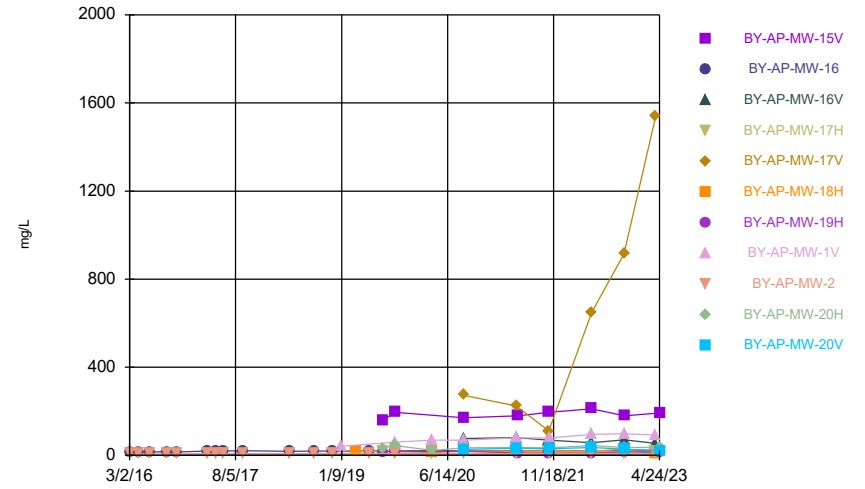
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



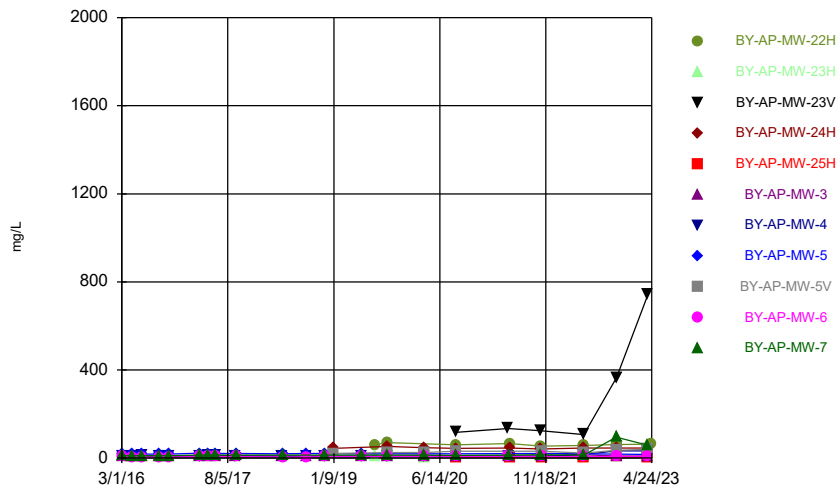
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



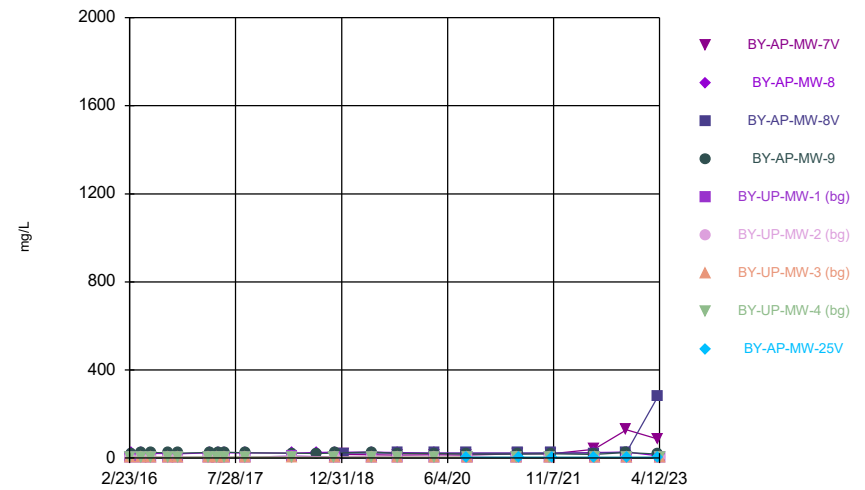
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



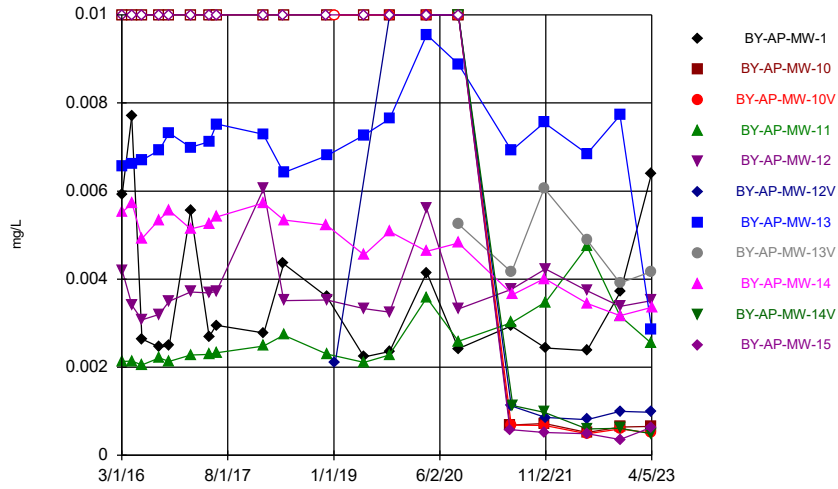
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



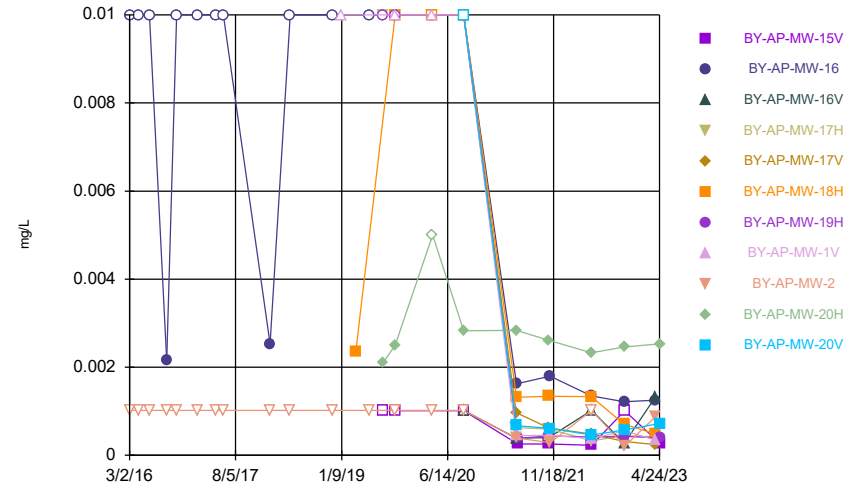
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



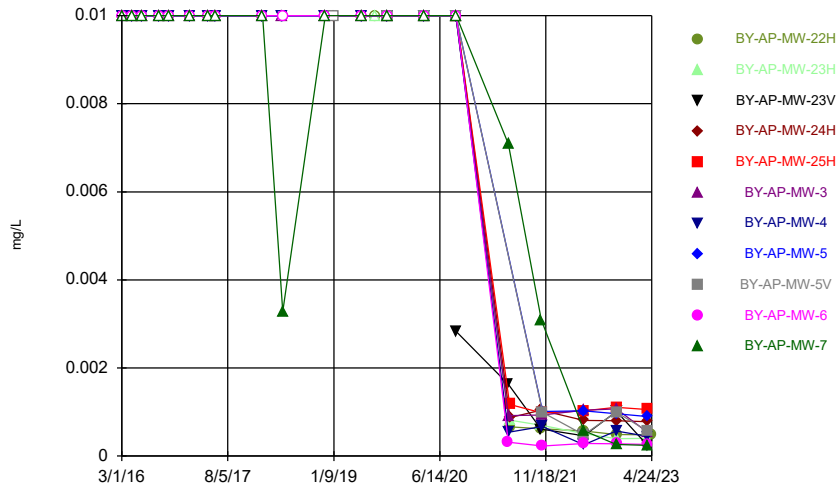
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



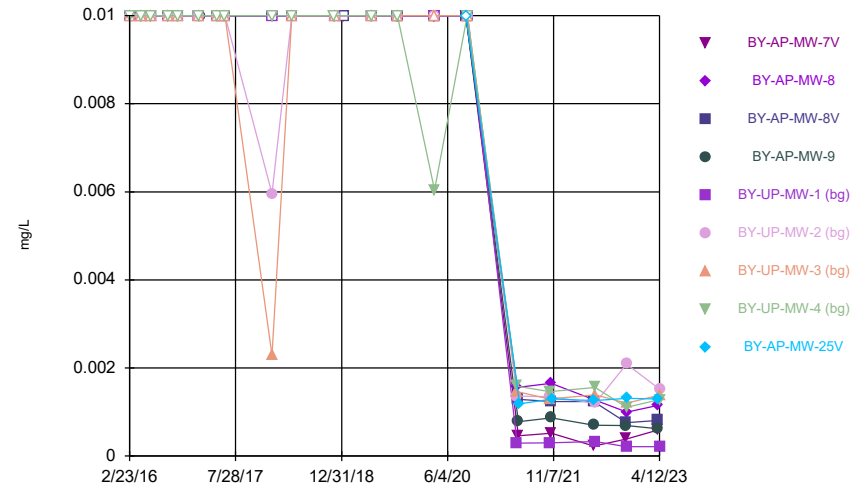
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



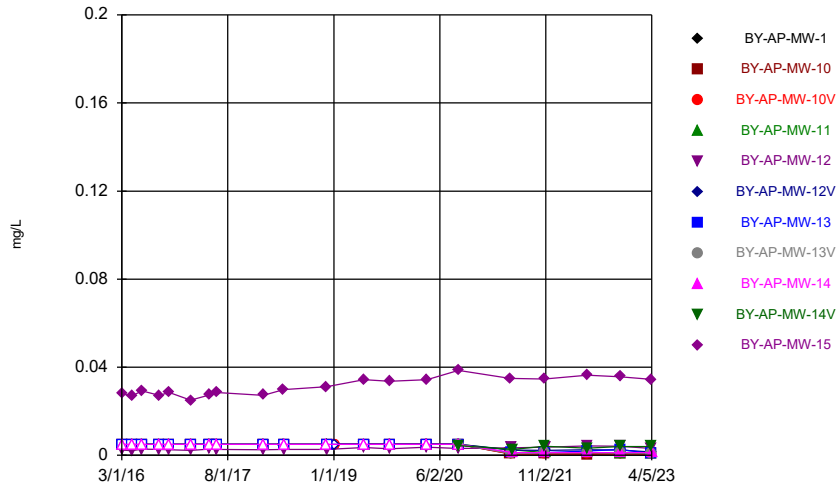
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



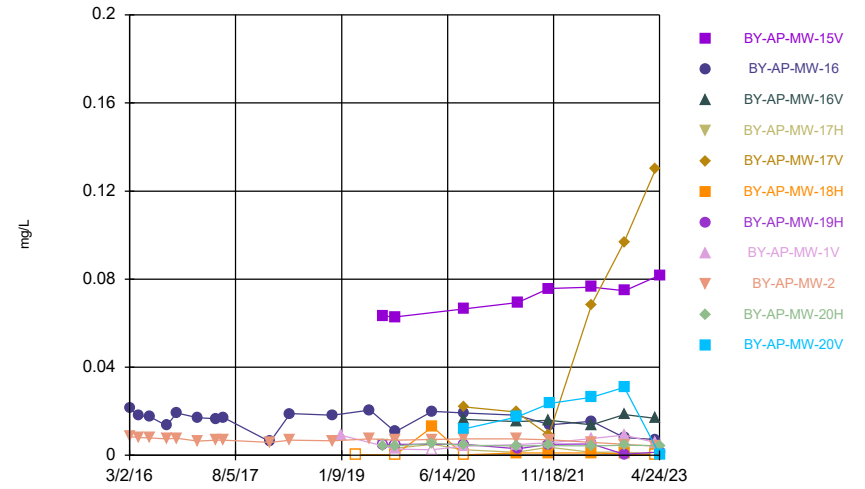
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



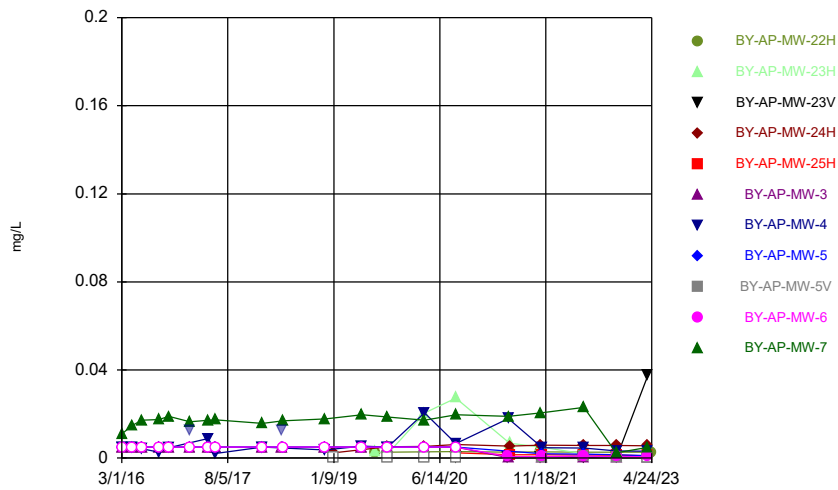
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### Time Series



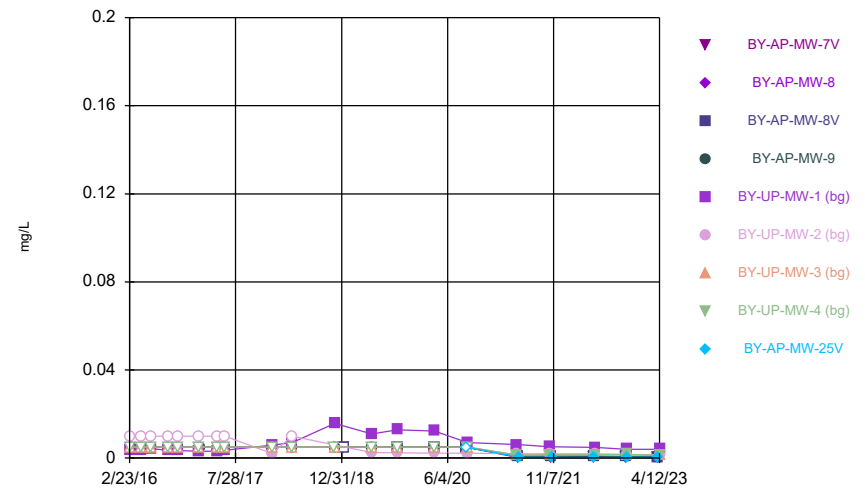
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



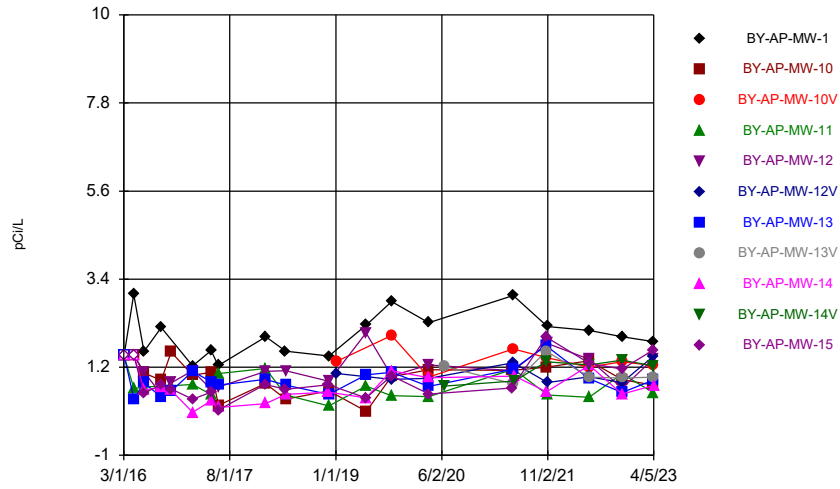
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



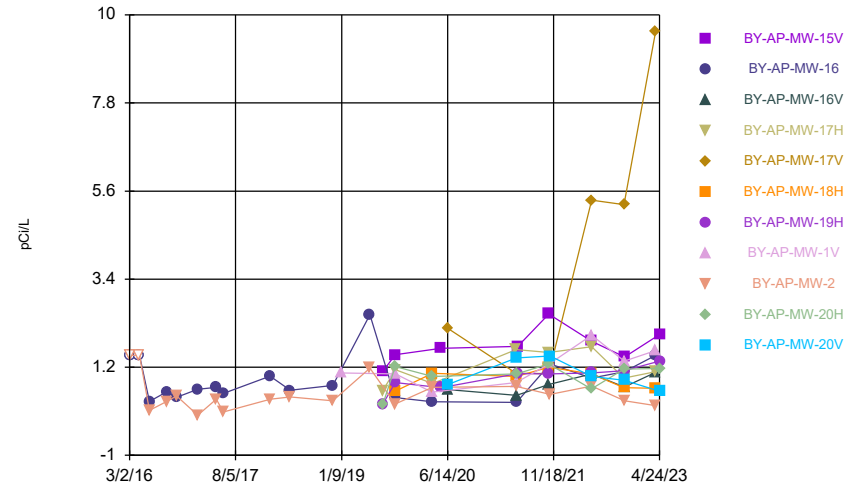
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



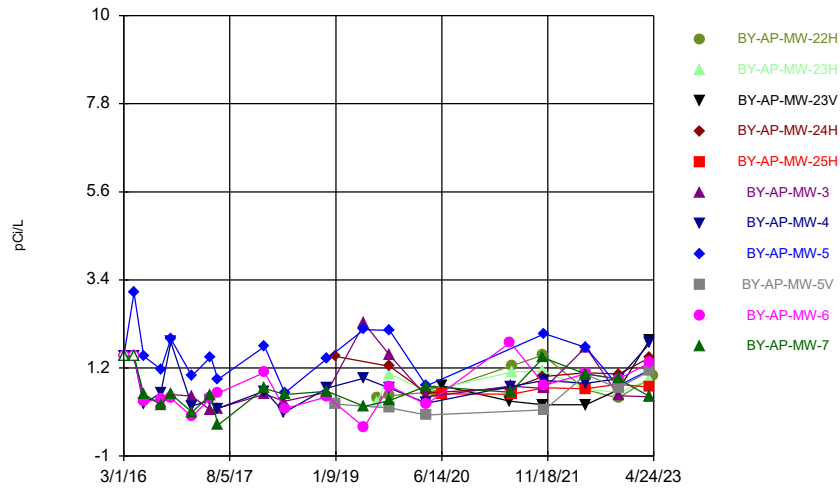
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



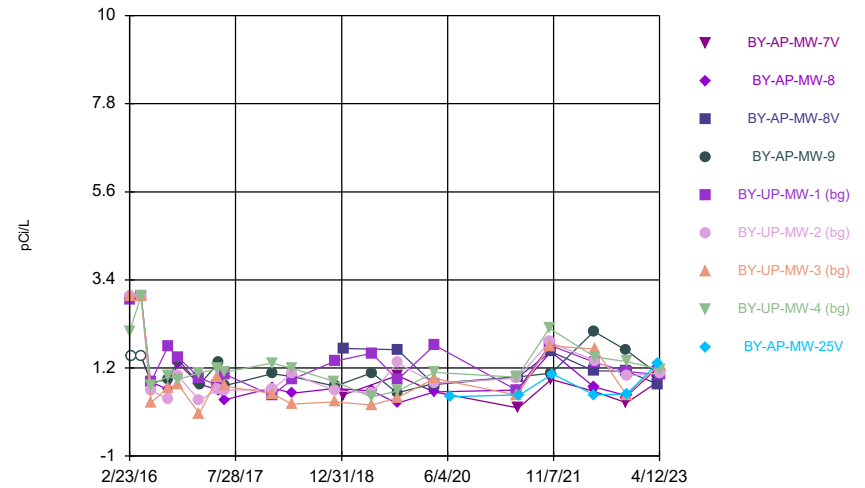
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 6/23/2023 11:15 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

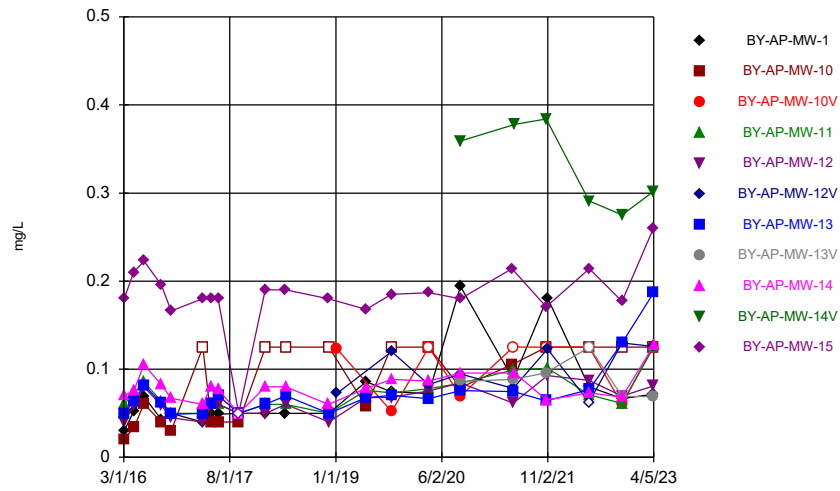
### Time Series



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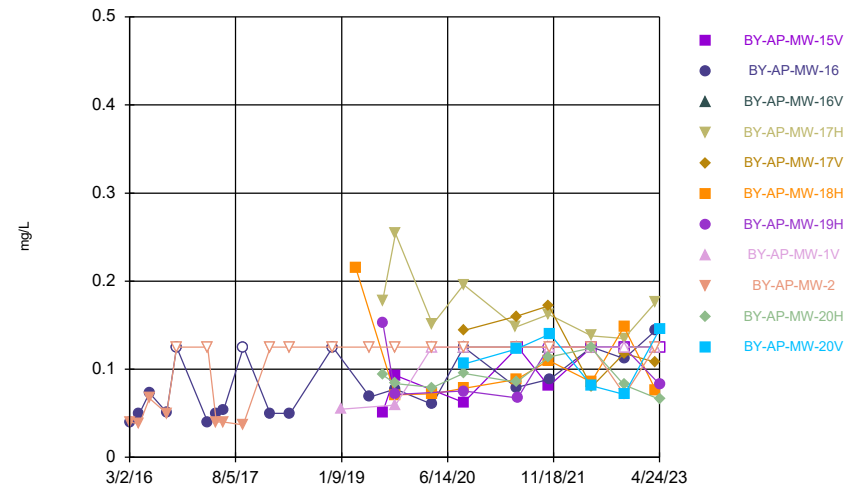


### Time Series



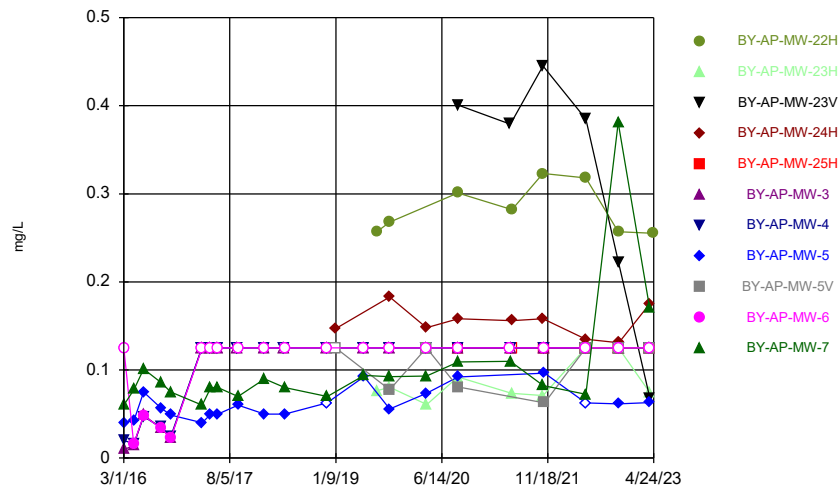
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



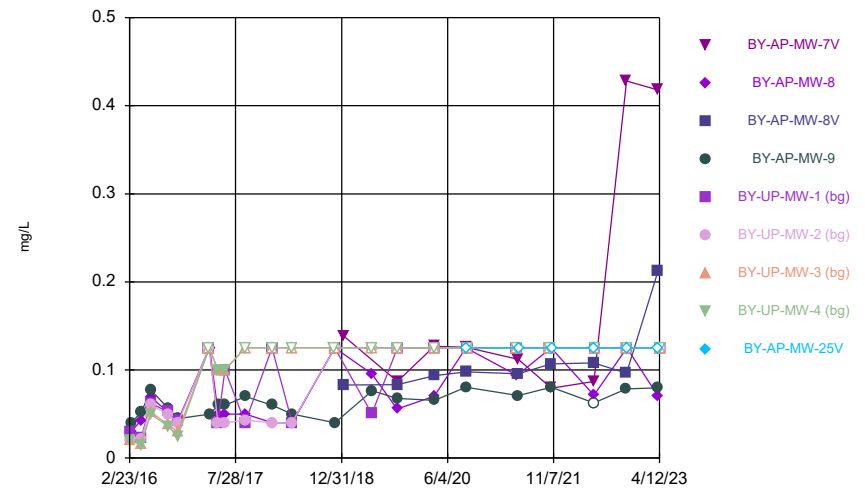
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



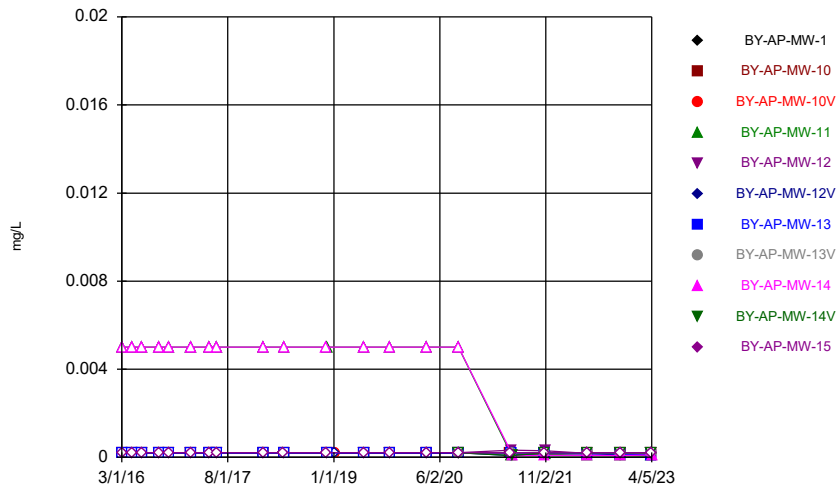
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



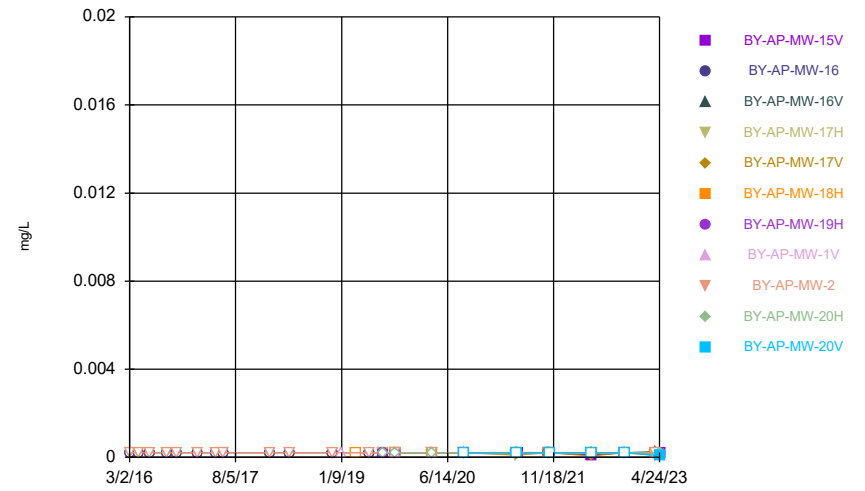
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Time Series



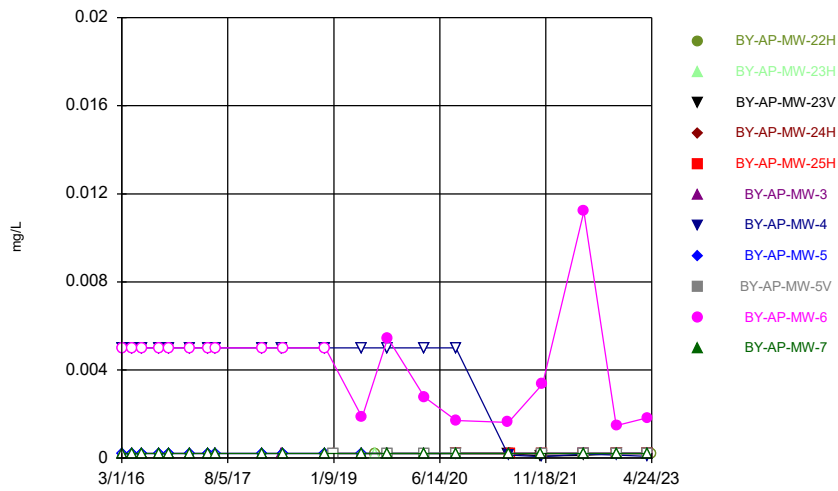
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



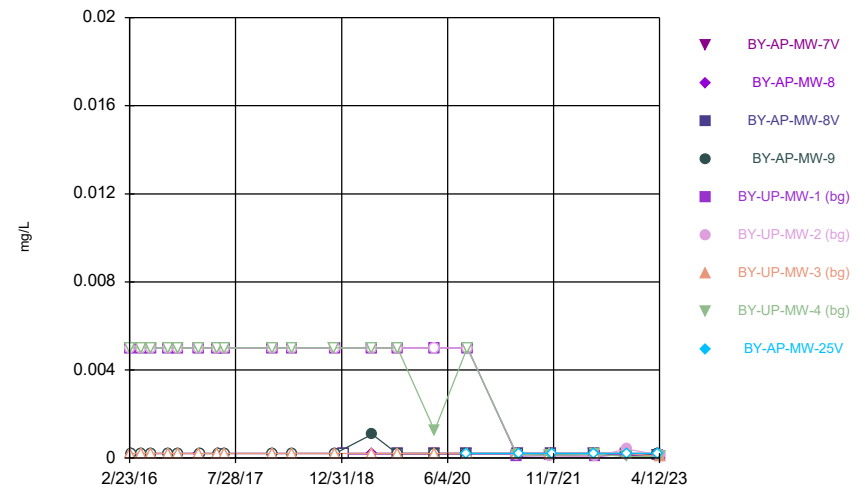
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



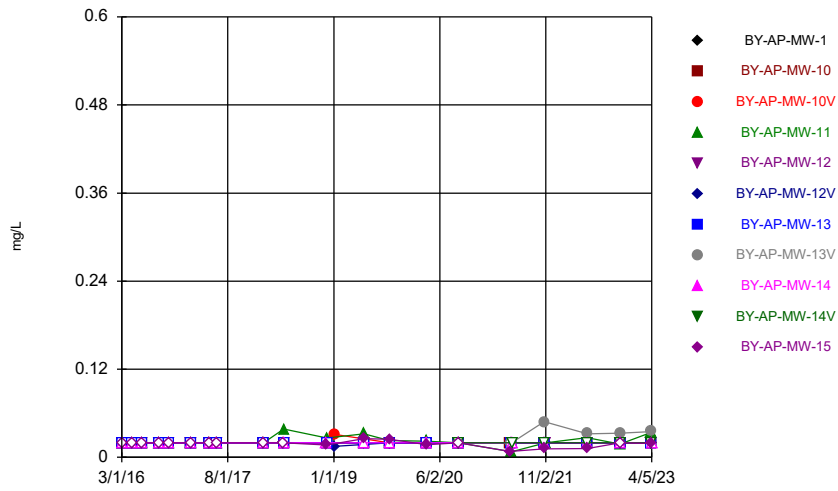
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



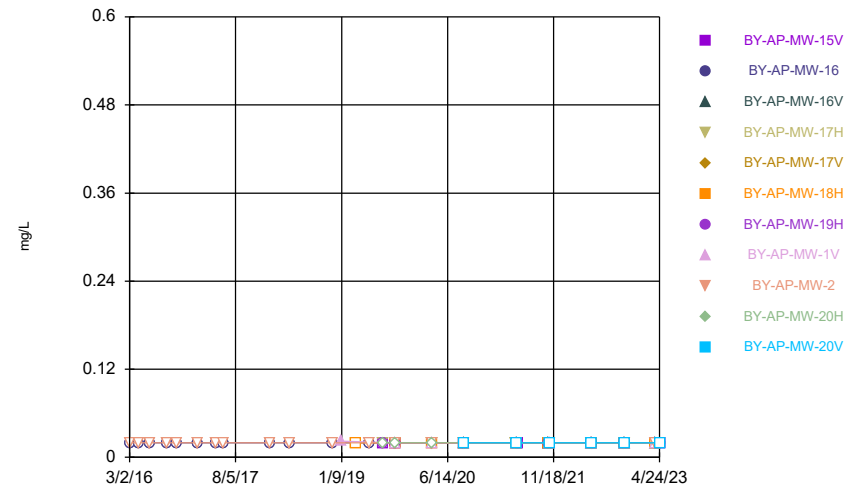
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



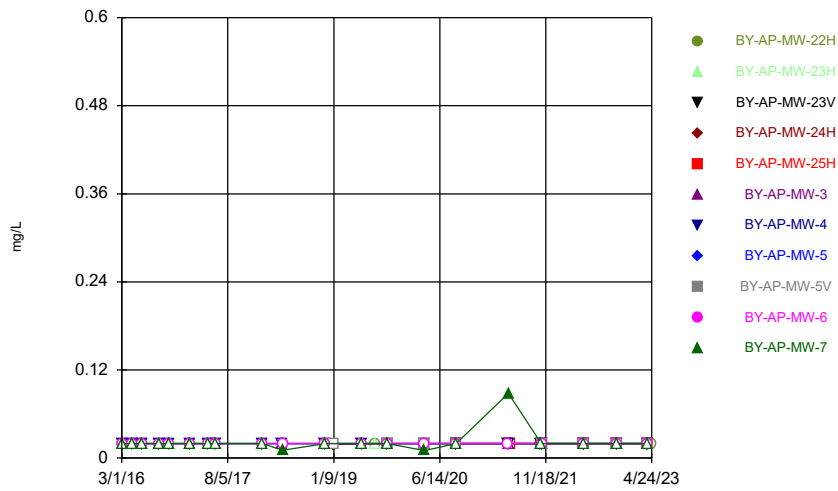
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



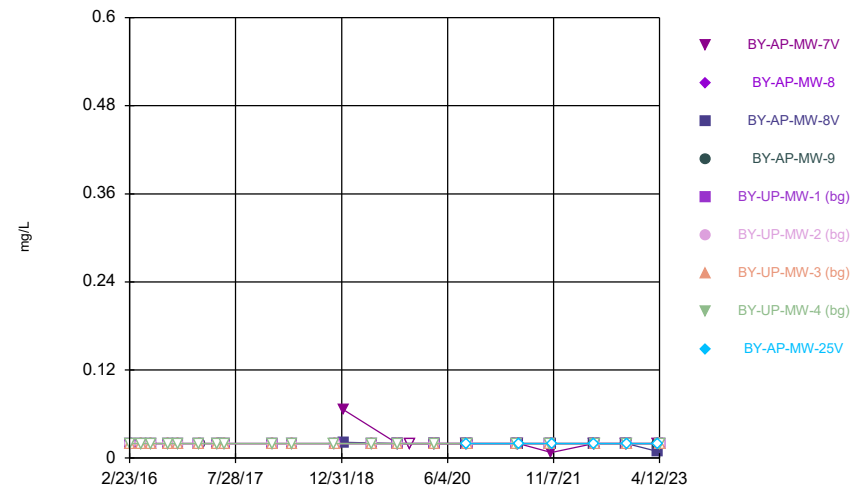
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



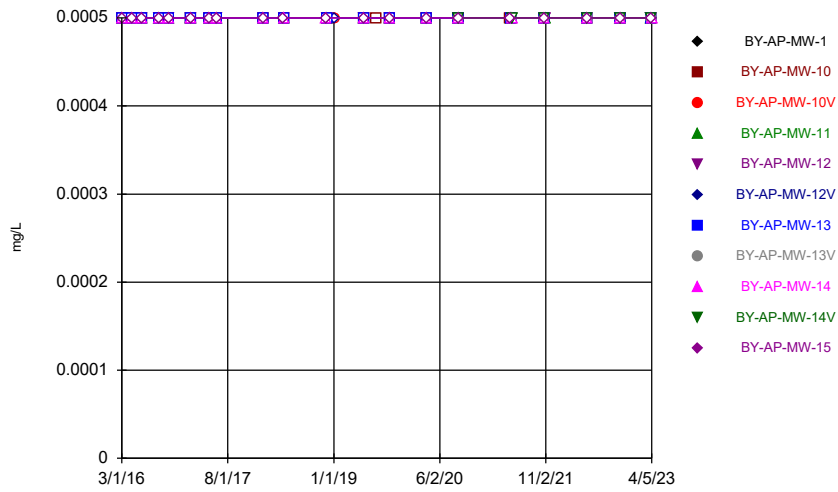
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



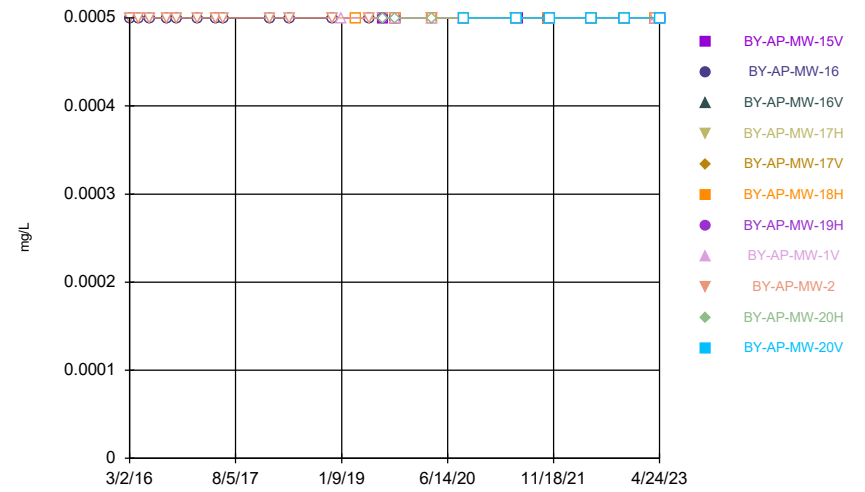
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



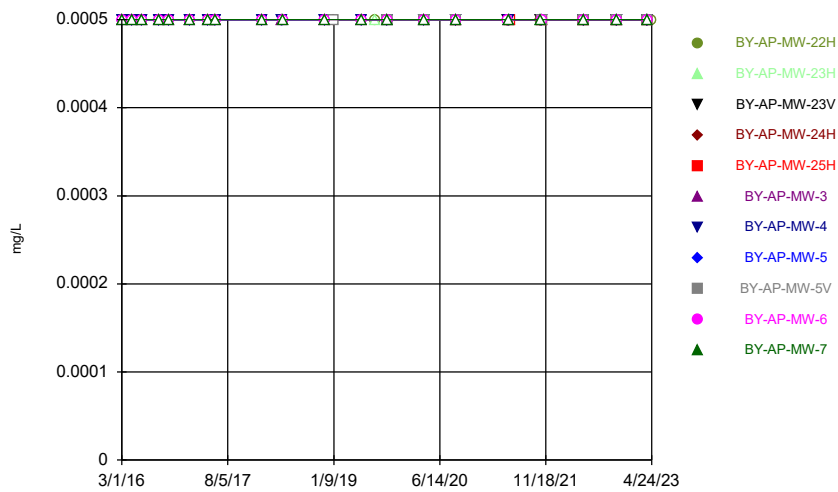
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



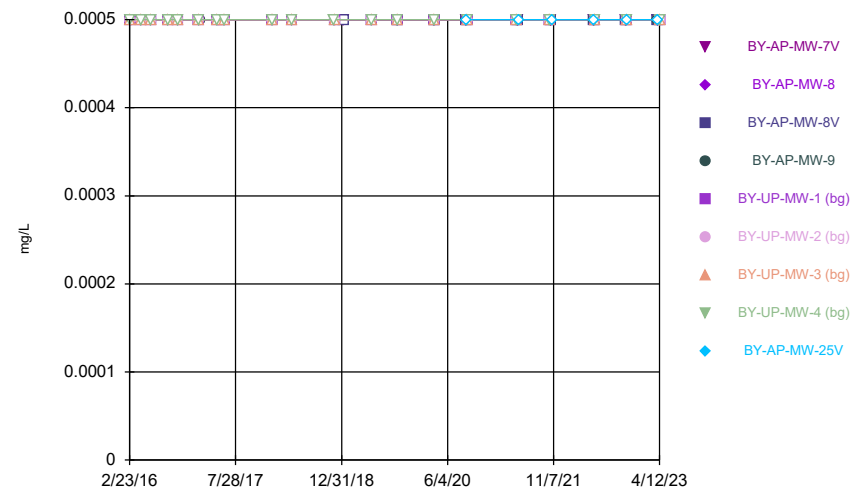
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



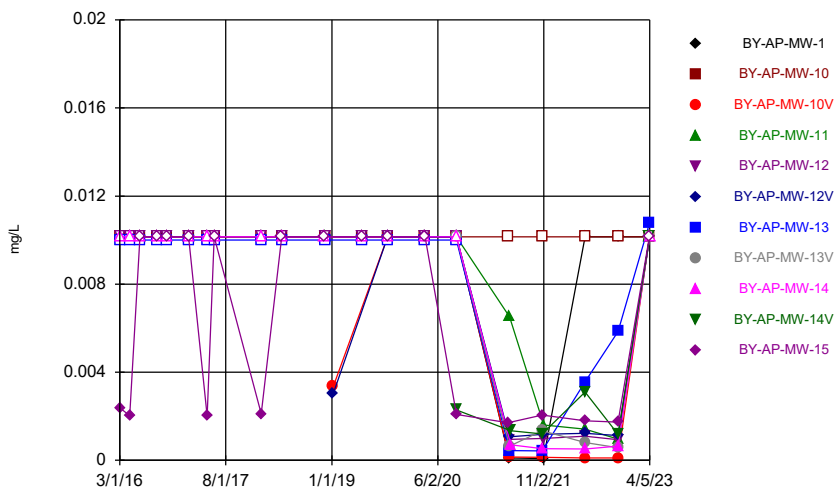
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



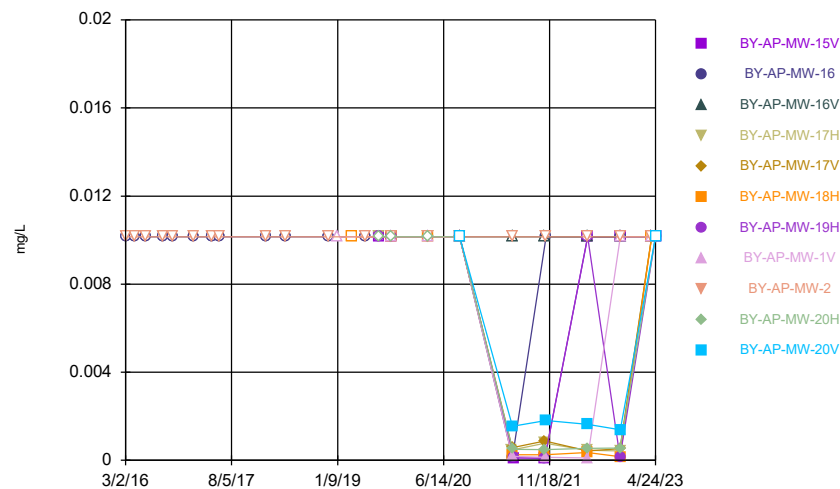
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



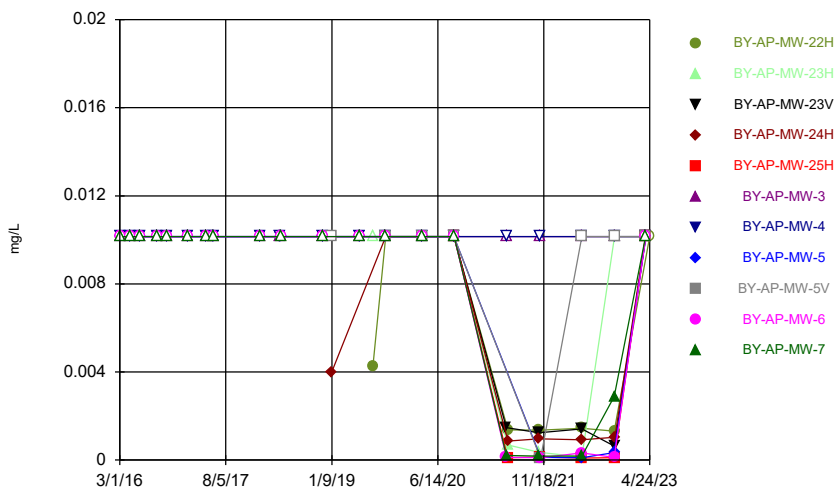
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



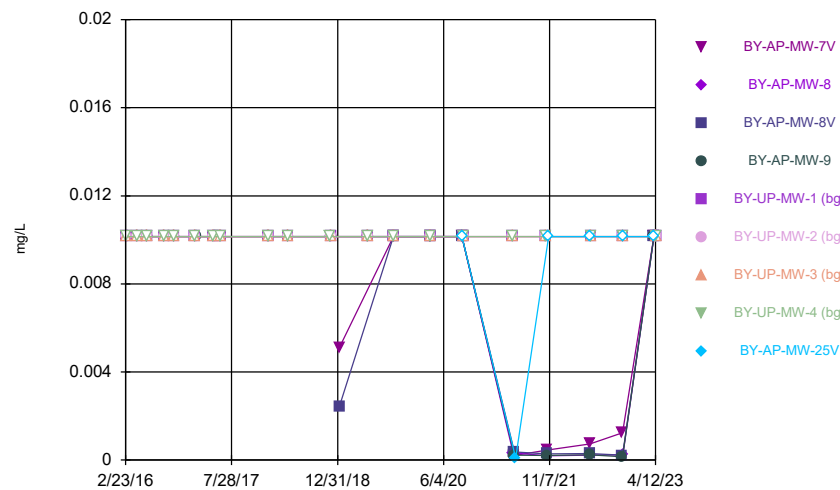
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



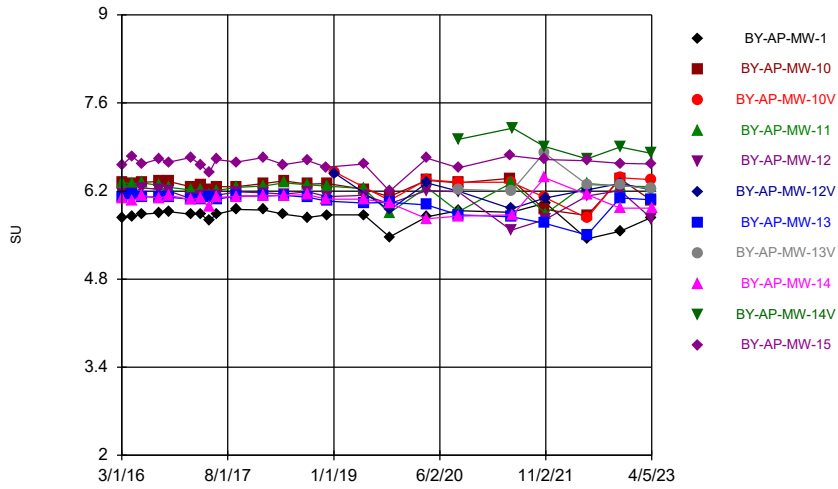
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



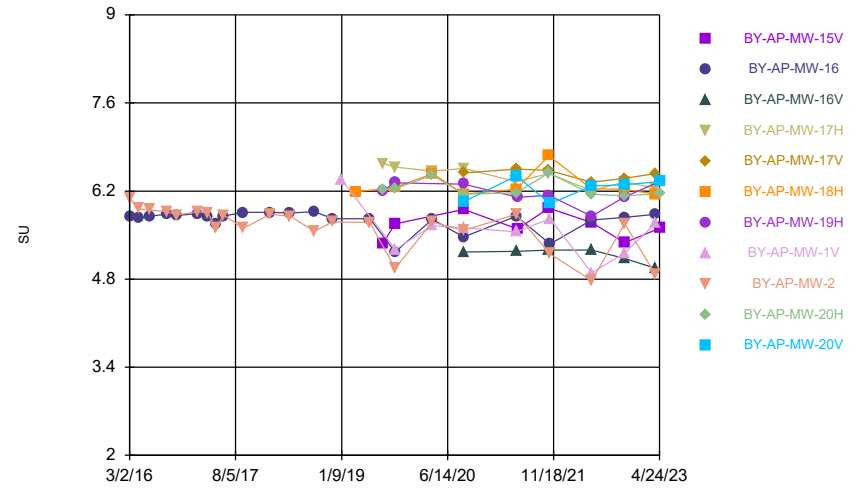
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



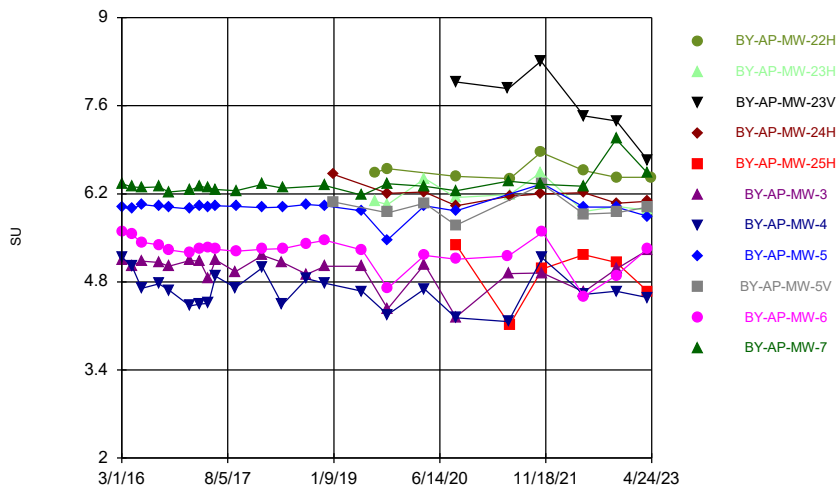
Constituent: pH, field Analysis Run 6/23/2023 11:15 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



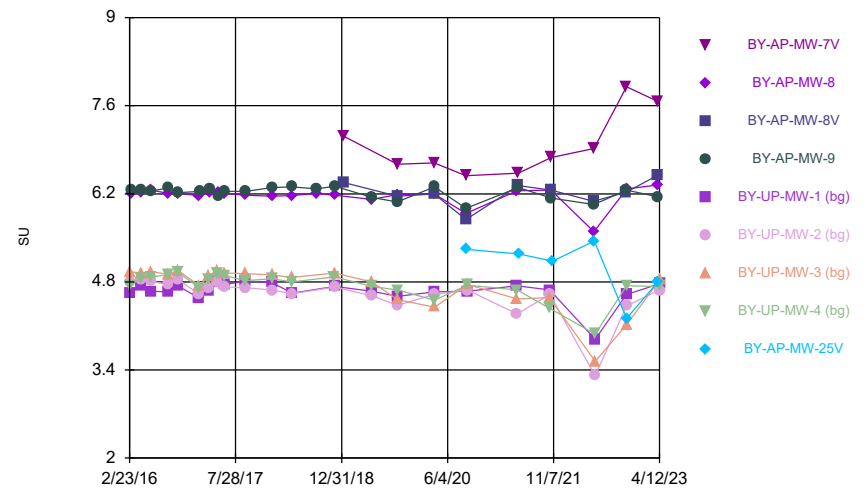
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



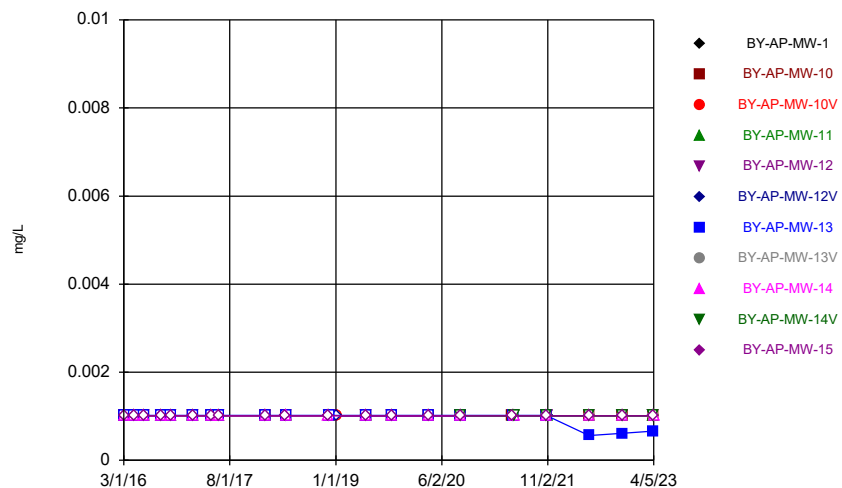
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



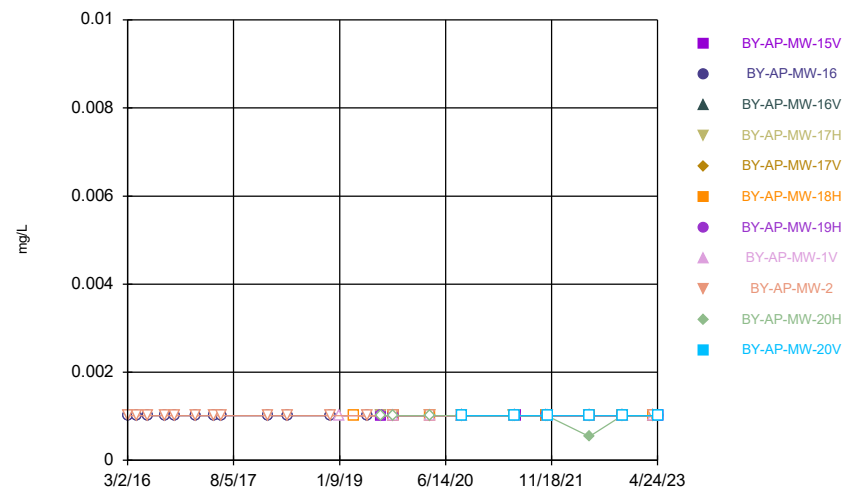
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



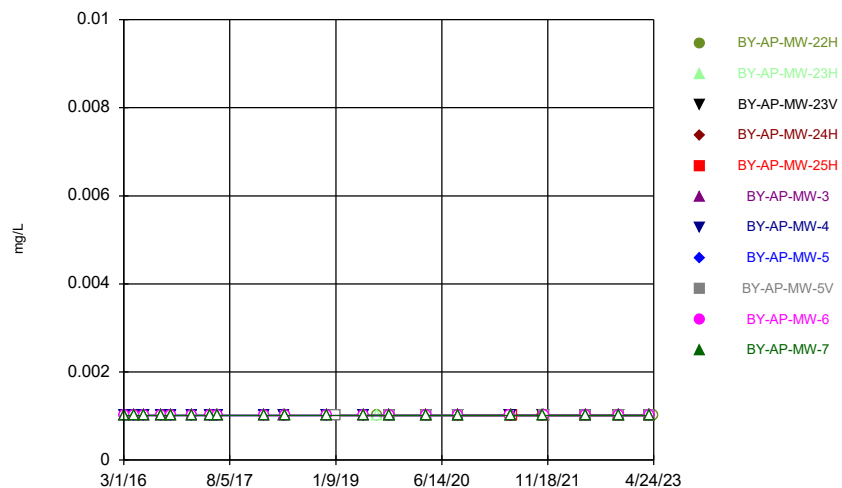
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



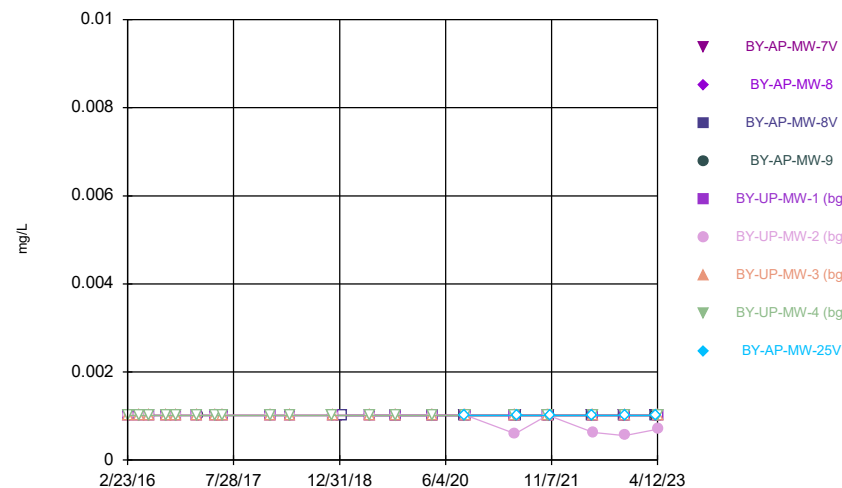
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



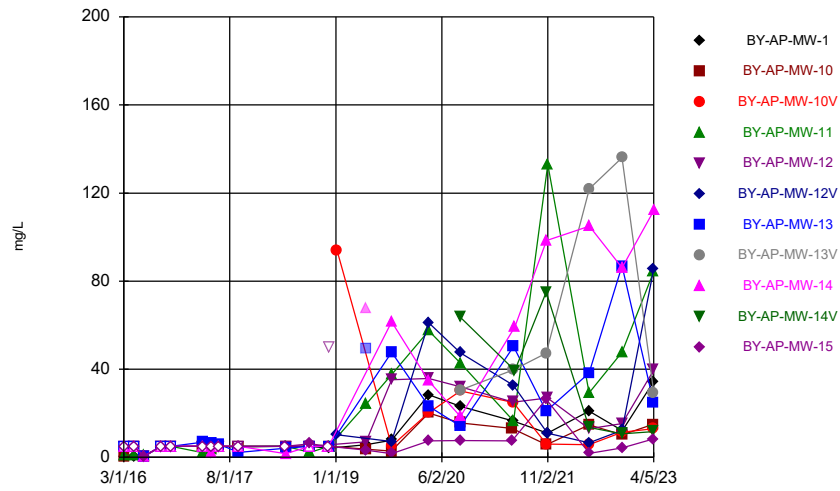
Constituent: Selenium Analysis Run 6/23/2023 11:15 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



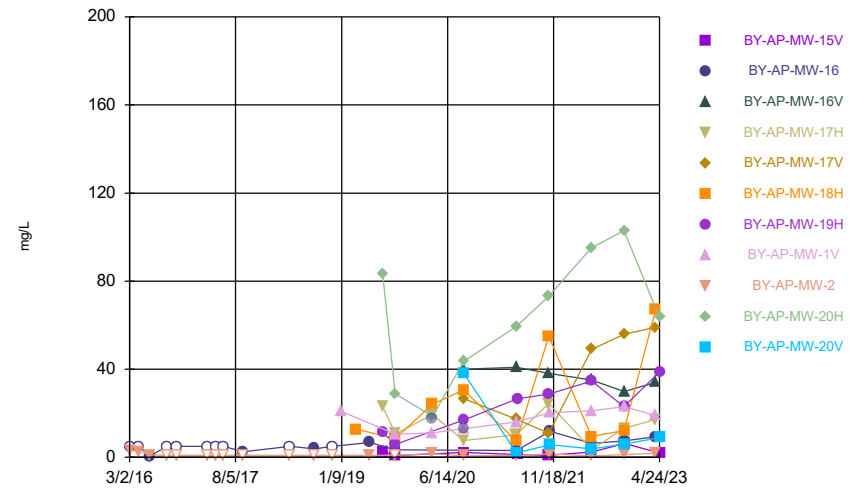
Constituent: Selenium Analysis Run 6/23/2023 11:15 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



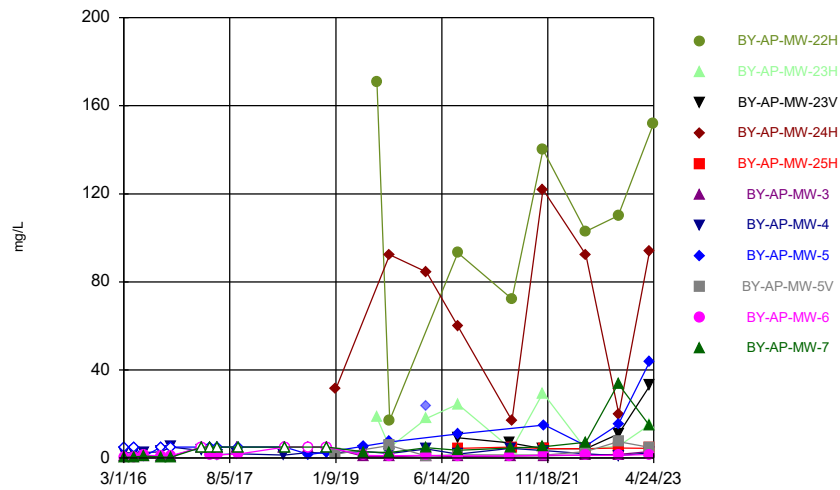
Constituent: Sulfate as SO4 Analysis Run 6/23/2023 11:15 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



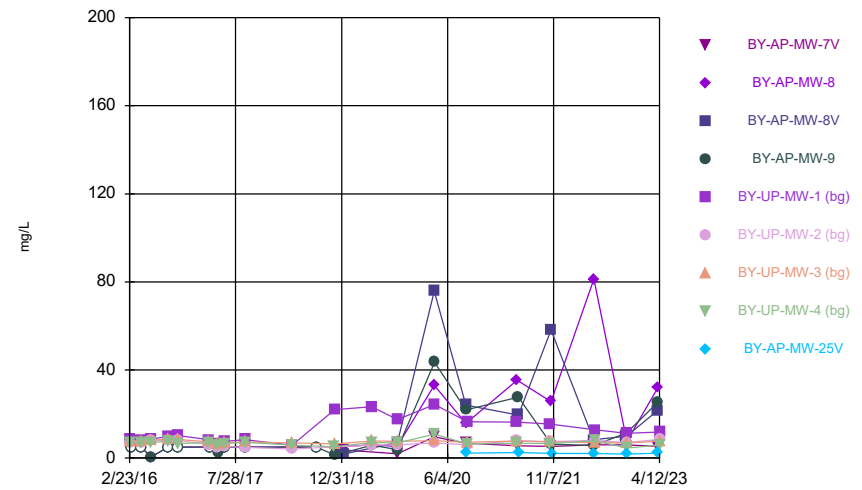
Constituent: Sulfate as SO4 Analysis Run 6/23/2023 11:15 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Time Series



Constituent: Sulfate as SO4 Analysis Run 6/23/2023 11:15 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

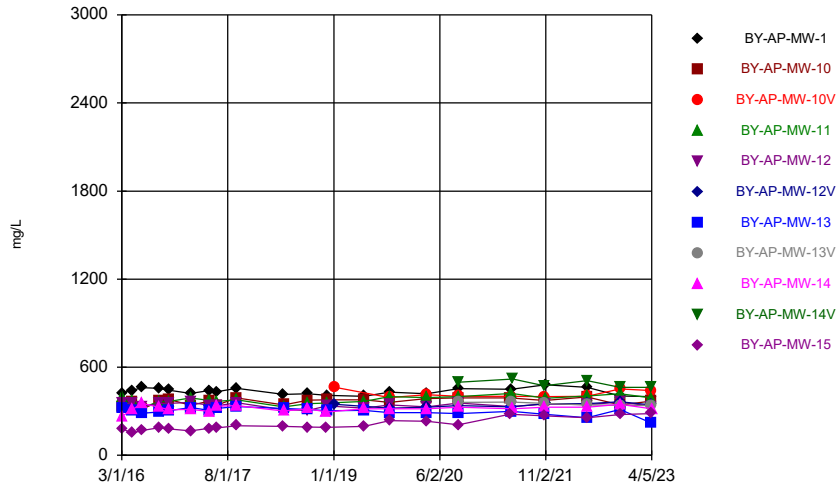
### Time Series



Constituent: Sulfate as SO4 Analysis Run 6/23/2023 11:15 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

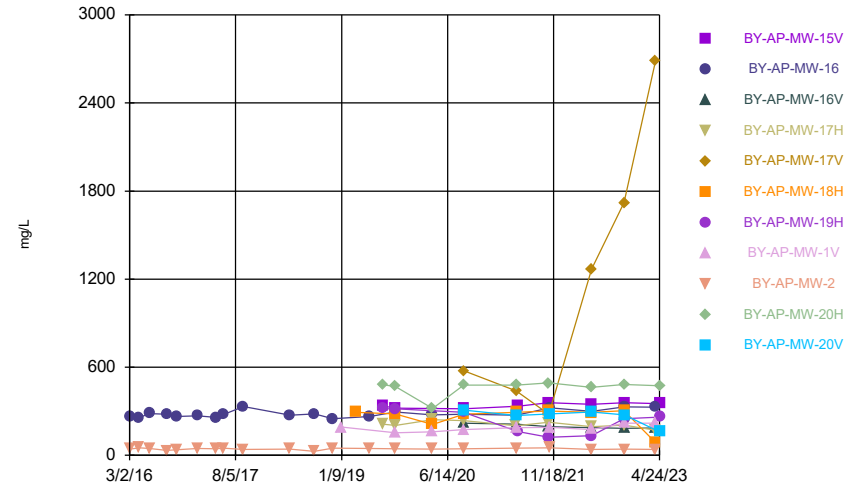


Time Series



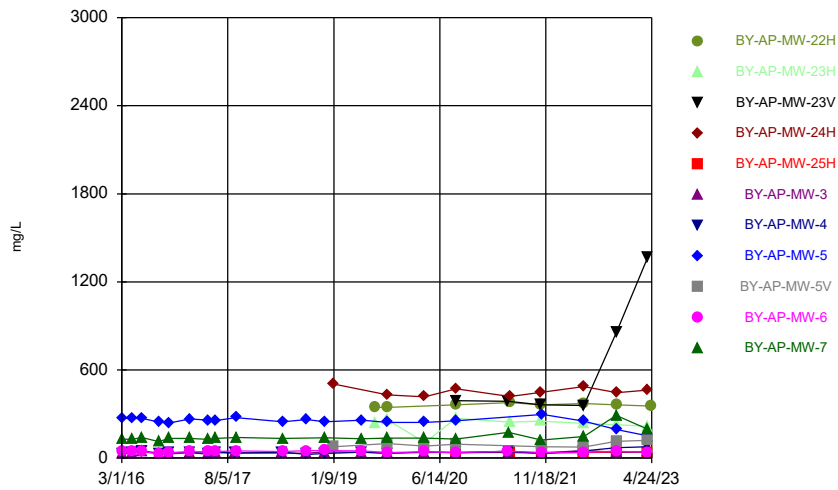
Constituent: TDS Analysis Run 6/23/2023 11:15 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



Constituent: TDS Analysis Run 6/23/2023 11:15 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

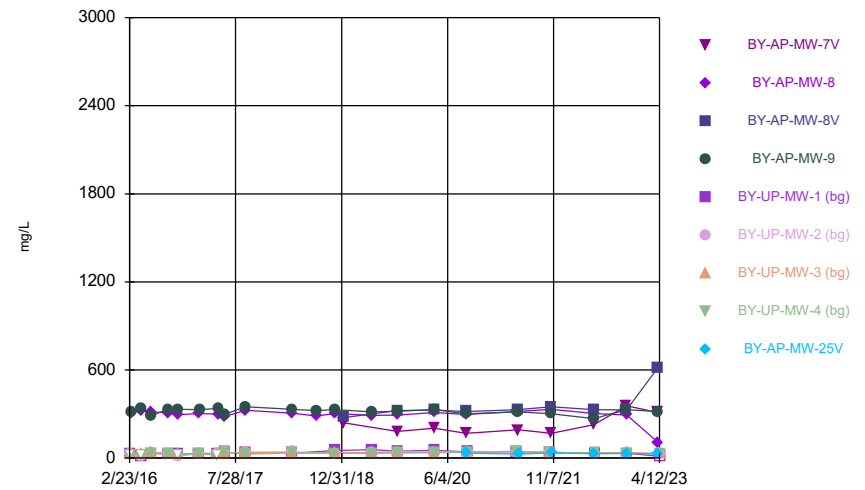
Time Series



Constituent: TDS Analysis Run 6/23/2023 11:15 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

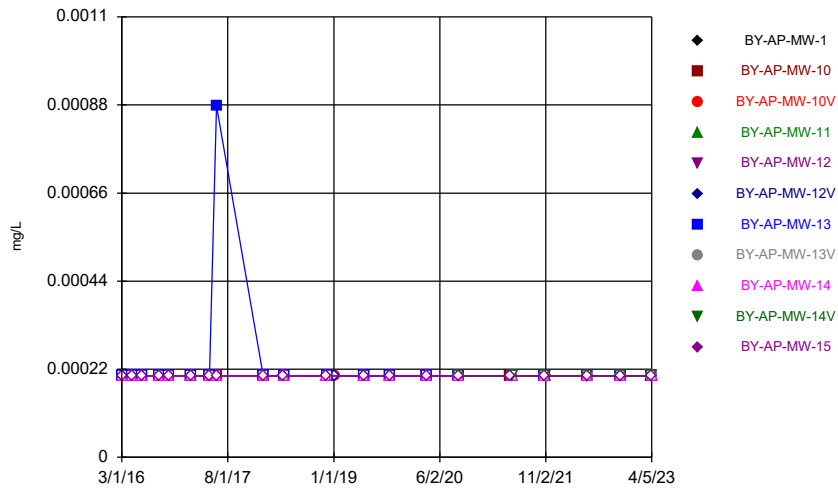
Hollow symbols indicate censored values.

Time Series



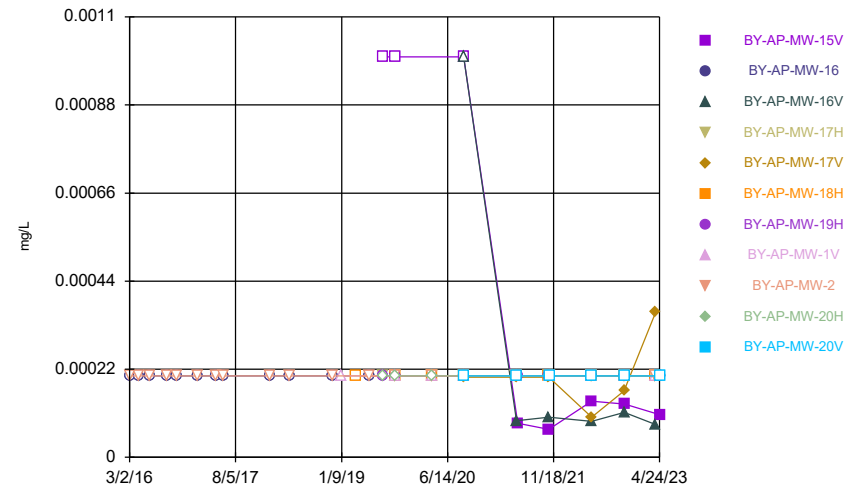
Constituent: TDS Analysis Run 6/23/2023 11:15 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



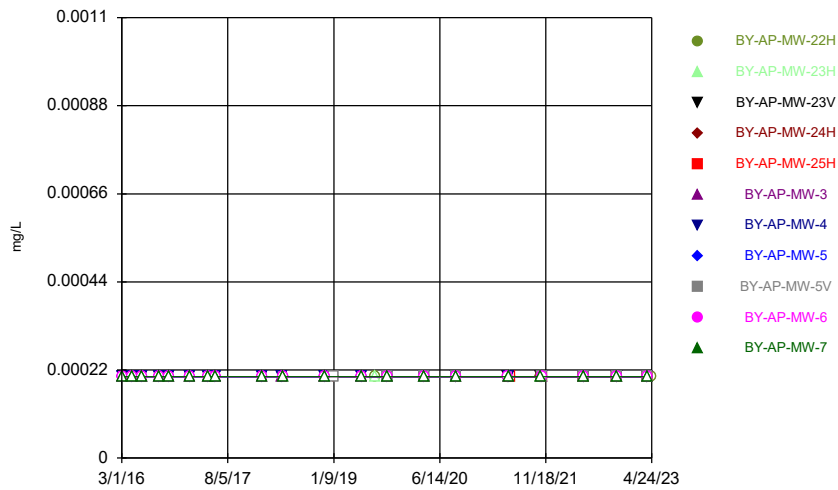
Constituent: Thallium Analysis Run 6/23/2023 11:15 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



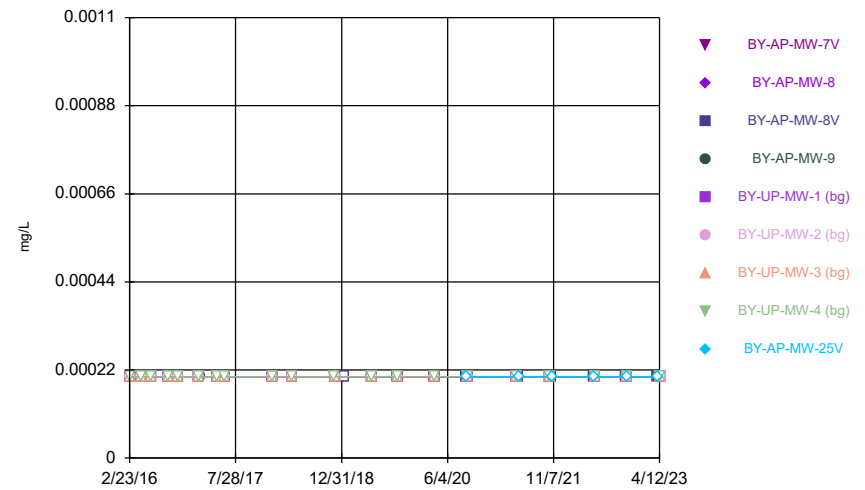
Constituent: Thallium Analysis Run 6/23/2023 11:15 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



Constituent: Thallium Analysis Run 6/23/2023 11:15 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



Constituent: Thallium Analysis Run 6/23/2023 11:15 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

# Time Series

Constituent: Antimony (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

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-13V | BY-AP-MW-14 |
|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|
| 3/1/2016   |              | <0.001015    |              | <0.001015    |              |              |              |              |             |
| 3/2/2016   | <0.001015    |              |              |              | <0.001015    |              | <0.001015    |              | <0.001015   |
| 4/19/2016  | <0.001015    |              |              |              |              |              |              |              |             |
| 4/20/2016  |              | <0.001015    |              | <0.001015    | <0.001015    |              | <0.001015    |              | <0.001015   |
| 6/8/2016   | <0.001015    | <0.001015    |              | <0.001015    | <0.001015    |              | 0.00111 (J)  |              | <0.001015   |
| 8/30/2016  |              |              |              |              |              |              |              |              | <0.001015   |
| 8/31/2016  | <0.001015    | <0.001015    |              | <0.001015    | <0.001015    |              | <0.001015    |              |             |
| 10/18/2016 |              |              |              |              |              |              |              |              | <0.001015   |
| 10/19/2016 | <0.001015    | <0.001015    |              | <0.001015    | <0.001015    |              | <0.001015    |              |             |
| 1/31/2017  | 0.000687 (J) |              |              |              |              |              | 0.000834 (J) |              | 0.00086 (J) |
| 2/1/2017   |              | 0.000743 (J) |              | 0.000812 (J) | 0.000838 (J) |              |              |              |             |
| 5/2/2017   | <0.001015    |              |              |              |              |              |              |              | <0.001015   |
| 5/3/2017   |              | <0.001015    |              | <0.001015    | <0.001015    |              | <0.001015    |              |             |
| 6/6/2017   | <0.001015    |              |              |              |              |              |              |              | <0.001015   |
| 6/7/2017   |              | <0.001015    |              | <0.001015    | <0.001015    |              | 0.000857 (J) |              |             |
| 1/22/2018  |              |              |              |              |              |              | <0.001015    |              |             |
| 1/23/2018  |              | <0.001015    |              | <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    |              | <0.001015    |              | <0.001015   |
| 11/27/2018 |              |              |              |              |              |              |              |              | <0.001015   |
| 11/28/2018 | <0.001015    | <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    |              | <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    |              | <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    | <0.001015    |              | <0.001015   |
| 4/1/2020   |              |              |              |              |              |              |              |              |             |
| 9/1/2020   | <0.001015    | <0.001015    | <0.001015    | <0.001015    | <0.001015    | <0.001015    | <0.001015    |              |             |
| 9/2/2020   |              |              |              |              |              |              |              | <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    |              |              | <0.001015    | <0.001015    |             |
| 5/25/2021  |              |              |              |              |              |              |              |              | <0.001015   |
| 10/26/2021 |              |              |              |              |              |              | <0.001015    | <0.001015    |             |
| 10/27/2021 |              | <0.001015    | <0.001015    |              |              |              |              |              | <0.001015   |
| 11/1/2021  | <0.001015    |              |              |              | <0.001015    | <0.001015    |              |              |             |
| 11/2/2021  |              |              |              | <0.001015    |              |              |              |              |             |
| 5/23/2022  |              |              |              | <0.001015    | <0.001015    | <0.001015    |              |              |             |
| 5/24/2022  | <0.001015    | <0.001015    | <0.001015    |              |              |              | <0.001015    |              |             |
| 5/25/2022  |              |              |              |              |              |              |              | <0.001015    | <0.001015   |
| 11/1/2022  |              |              | <0.001015    | <0.001015    | <0.001015    | <0.001015    | <0.001015    | <0.001015    | <0.001015   |
| 11/2/2022  | <0.001015    | <0.001015    |              |              |              |              |              |              |             |
| 4/3/2023   | <0.001015    | <0.001015    | <0.001015    |              |              |              |              |              |             |
| 4/4/2023   |              |              |              | <0.001015    | <0.001015    | <0.001015    | <0.001015    | <0.001015    |             |
| 4/5/2023   |              |              |              |              |              |              |              |              | <0.001015   |

# Time Series

Constituent: Antimony (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-14V | BY-AP-MW-15  |
|------------|--------------|--------------|
| 3/1/2016   |              |              |
| 3/2/2016   |              | <0.001015    |
| 4/19/2016  |              | <0.001015    |
| 4/20/2016  |              |              |
| 6/8/2016   |              | <0.001015    |
| 8/30/2016  |              |              |
| 8/31/2016  |              | <0.001015    |
| 10/18/2016 |              |              |
| 10/19/2016 |              | <0.001015    |
| 1/31/2017  |              | 0.000746 (J) |
| 2/1/2017   |              |              |
| 5/2/2017   |              | <0.001015    |
| 5/3/2017   |              |              |
| 6/6/2017   |              | <0.001015    |
| 6/7/2017   |              |              |
| 1/22/2018  |              | <0.001015    |
| 1/23/2018  |              |              |
| 1/24/2018  |              |              |
| 5/1/2018   |              | <0.001015    |
| 5/2/2018   |              |              |
| 11/27/2018 |              | <0.001015    |
| 11/28/2018 |              |              |
| 1/8/2019   |              |              |
| 5/29/2019  |              | <0.001015    |
| 5/30/2019  |              |              |
| 9/30/2019  |              |              |
| 10/1/2019  |              | <0.001015    |
| 10/2/2019  |              |              |
| 3/30/2020  |              |              |
| 3/31/2020  |              |              |
| 4/1/2020   |              | <0.001015    |
| 9/1/2020   |              |              |
| 9/2/2020   | <0.001015    | <0.001015    |
| 5/11/2021  |              | <0.001015    |
| 5/18/2021  |              |              |
| 5/19/2021  |              |              |
| 5/25/2021  | <0.001015    |              |
| 10/26/2021 | <0.001015    | <0.001015    |
| 10/27/2021 |              |              |
| 11/1/2021  |              |              |
| 11/2/2021  |              |              |
| 5/23/2022  |              |              |
| 5/24/2022  | <0.001015    |              |
| 5/25/2022  |              | <0.001015    |
| 11/1/2022  | <0.001015    | <0.001015    |
| 11/2/2022  |              |              |
| 4/3/2023   |              | <0.001015    |
| 4/4/2023   | <0.001015    |              |
| 4/5/2023   |              |              |

# Time Series

Constituent: Antimony (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-15V | BY-AP-MW-16  | BY-AP-MW-16V | BY-AP-MW-17H | BY-AP-MW-17V | BY-AP-MW-18H | BY-AP-MW-19H | BY-AP-MW-1V | BY-AP-MW-2   |
|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|--------------|
| 3/2/2016   |              | <0.001015    |              |              |              |              |              |             | <0.001015    |
| 4/19/2016  |              | <0.001015    |              |              |              |              |              |             | <0.001015    |
| 6/8/2016   |              | <0.001015    |              |              |              |              |              |             | <0.001015    |
| 8/31/2016  |              | <0.001015    |              |              |              |              |              |             | <0.001015    |
| 10/19/2016 |              | <0.001015    |              |              |              |              |              |             | <0.001015    |
| 1/31/2017  |              | 0.000769 (J) |              |              |              |              |              |             | 0.000739 (J) |
| 5/2/2017   |              | <0.001015    |              |              |              |              |              |             | <0.001015    |
| 6/6/2017   |              | <0.001015    |              |              |              |              |              |             | <0.001015    |
| 1/23/2018  |              | <0.001015    |              |              |              |              |              |             | <0.001015    |
| 1/24/2018  |              |              |              |              |              |              |              |             | <0.001015    |
| 5/1/2018   |              | <0.001015    |              |              |              |              |              |             | <0.001015    |
| 11/27/2018 |              | <0.001015    |              |              |              |              |              |             | <0.001015    |
| 1/8/2019   |              |              |              |              |              |              |              | 0.00125 (J) |              |
| 3/20/2019  |              |              |              |              |              | 0.00117 (J)  |              |             |              |
| 5/29/2019  |              | <0.001015    |              |              |              |              |              |             | <0.001015    |
| 7/31/2019  | 0.00094 (J)  |              |              | 0.000878 (J) |              |              | 0.00152 (J)  |             |              |
| 10/1/2019  | <0.001015    | <0.001015    |              |              |              | <0.001015    | <0.001015    |             | <0.001015    |
| 10/2/2019  |              |              |              | <0.001015    |              |              |              | <0.001015   |              |
| 3/30/2020  |              |              |              |              |              |              |              | <0.001015   |              |
| 3/31/2020  |              | <0.001015    |              |              |              |              |              |             | <0.001015    |
| 4/1/2020   |              |              |              | <0.001015    |              | <0.001015    |              |             | <0.001015    |
| 8/31/2020  |              |              |              |              |              |              |              |             | <0.001015    |
| 9/1/2020   | <0.001015    |              |              | <0.001015    | <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    |              |              | <0.001015   | <0.001015    |
| 5/19/2021  |              | <0.001015    | <0.001015    |              |              | <0.001015    |              |             |              |
| 5/25/2021  | <0.001015    |              |              |              |              |              | <0.001015    |             |              |
| 10/25/2021 |              |              |              | <0.001015    | <0.001015    | <0.001015    | <0.001015    |             |              |
| 10/26/2021 | <0.001015    |              | <0.001015    |              |              |              |              |             |              |
| 11/1/2021  |              | <0.001015    |              |              |              |              |              | <0.001015   | <0.001015    |
| 5/23/2022  |              |              |              |              |              | <0.001015    |              |             |              |
| 5/24/2022  | <0.001015    |              |              |              |              |              | <0.001015    | <0.001015   | <0.001015    |
| 5/25/2022  |              | <0.001015    | <0.001015    | <0.001015    | <0.001015    |              |              |             |              |
| 10/31/2022 |              |              |              | <0.001015    | <0.001015    | <0.001015    | <0.001015    |             |              |
| 11/1/2022  |              | <0.001015    | <0.001015    |              |              |              |              | <0.001015   |              |
| 11/2/2022  | <0.001015    |              |              |              |              |              |              |             | <0.001015    |
| 4/3/2023   |              |              |              |              |              |              |              |             | <0.001015    |
| 4/4/2023   |              |              | <0.001015    | <0.001015    | <0.001015    |              |              | <0.001015   |              |
| 4/5/2023   |              | <0.001015    |              |              |              | <0.001015    |              |             |              |
| 4/24/2023  | <0.001015    |              |              |              |              |              | <0.001015    |             |              |

# Time Series

Constituent: Antimony (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-20H | BY-AP-MW-20V |
|------------|--------------|--------------|
| 3/2/2016   |              |              |
| 4/19/2016  |              |              |
| 6/8/2016   |              |              |
| 8/31/2016  |              |              |
| 10/19/2016 |              |              |
| 1/31/2017  |              |              |
| 5/2/2017   |              |              |
| 6/6/2017   |              |              |
| 1/23/2018  |              |              |
| 1/24/2018  |              |              |
| 5/1/2018   |              |              |
| 11/27/2018 |              |              |
| 1/8/2019   |              |              |
| 3/20/2019  |              |              |
| 5/29/2019  |              |              |
| 7/31/2019  | 0.00113 (J)  |              |
| 10/1/2019  | <0.001015    |              |
| 10/2/2019  |              |              |
| 3/30/2020  |              |              |
| 3/31/2020  |              |              |
| 4/1/2020   | <0.001015    |              |
| 8/31/2020  |              |              |
| 9/1/2020   | <0.001015    | <0.001015    |
| 9/2/2020   |              |              |
| 5/17/2021  |              |              |
| 5/18/2021  |              |              |
| 5/19/2021  | <0.001015    | <0.001015    |
| 5/25/2021  |              |              |
| 10/25/2021 |              |              |
| 10/26/2021 | <0.001015    |              |
| 11/1/2021  |              | <0.001015    |
| 5/23/2022  | <0.001015    |              |
| 5/24/2022  |              | <0.001015    |
| 5/25/2022  |              |              |
| 10/31/2022 | <0.001015    |              |
| 11/1/2022  |              | <0.001015    |
| 11/2/2022  |              |              |
| 4/3/2023   |              |              |
| 4/4/2023   |              |              |
| 4/5/2023   |              |              |
| 4/24/2023  | <0.001015    | <0.001015    |

# Time Series

Constituent: Antimony (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-22H | BY-AP-MW-23H | BY-AP-MW-23V | BY-AP-MW-24H | BY-AP-MW-25H | BY-AP-MW-3   | BY-AP-MW-4   | BY-AP-MW-5   | BY-AP-MW-5V |
|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|
| 3/1/2016   |              |              |              |              |              |              | <0.001015    | <0.001015    |             |
| 3/2/2016   |              |              |              |              |              | <0.001015    |              |              |             |
| 4/19/2016  |              |              |              |              |              | <0.001015    | <0.001015    |              |             |
| 4/20/2016  |              |              |              |              |              |              |              | <0.001015    |             |
| 6/7/2016   |              |              |              |              |              | 0.000606 (J) | 0.000869 (J) | <0.001015    |             |
| 8/30/2016  |              |              |              |              |              |              | <0.001015    | <0.001015    |             |
| 8/31/2016  |              |              |              |              |              | <0.001015    |              |              |             |
| 10/18/2016 |              |              |              |              |              |              |              | <0.001015    |             |
| 10/19/2016 |              |              |              |              |              | <0.001015    | <0.001015    |              |             |
| 1/31/2017  |              |              |              |              |              | 0.000637 (J) | 0.00086 (J)  | 0.000765 (J) |             |
| 5/2/2017   |              |              |              |              |              | <0.001015    | <0.001015    |              |             |
| 5/3/2017   |              |              |              |              |              |              |              | <0.001015    |             |
| 6/6/2017   |              |              |              |              |              | <0.001015    | <0.001015    |              |             |
| 6/7/2017   |              |              |              |              |              |              |              | <0.001015    |             |
| 1/24/2018  |              |              |              |              |              | <0.001015    | <0.001015    | <0.001015    |             |
| 5/1/2018   |              |              |              |              |              | <0.001015    | <0.001015    |              |             |
| 5/2/2018   |              |              |              |              |              |              |              | <0.001015    |             |
| 11/27/2018 |              |              |              |              |              | <0.001015    | <0.001015    | <0.001015    |             |
| 11/28/2018 |              |              |              |              |              |              |              |              |             |
| 1/8/2019   |              |              |              | 0.00116 (J)  |              |              |              |              | 0.00207 (J) |
| 5/29/2019  |              |              |              |              |              | <0.001015    | <0.001015    | <0.001015    |             |
| 7/31/2019  | 0.00117 (J)  | 0.000964 (J) |              |              |              |              |              |              |             |
| 9/30/2019  |              |              |              |              |              |              |              |              |             |
| 10/1/2019  | <0.001015    | <0.001015    |              |              |              | <0.001015    | <0.001015    | <0.001015    |             |
| 10/2/2019  |              |              |              | <0.001015    |              |              |              |              | <0.001015   |
| 3/30/2020  |              |              |              |              |              |              |              |              |             |
| 3/31/2020  |              |              |              | <0.001015    |              | <0.001015    | <0.001015    | <0.001015    | <0.001015   |
| 4/1/2020   |              | <0.001015    |              |              |              |              |              |              |             |
| 9/1/2020   | <0.001015    | <0.001015    | <0.001015    |              |              | <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    | <0.001015    |              |             |
| 5/24/2021  |              | <0.001015    |              |              | <0.001015    |              |              |              |             |
| 5/25/2021  | <0.001015    |              |              | <0.001015    |              |              |              |              |             |
| 10/26/2021 | <0.001015    | <0.001015    | <0.001015    | <0.001015    |              |              |              |              |             |
| 10/27/2021 |              |              |              |              |              |              |              |              |             |
| 11/1/2021  |              |              |              |              |              | <0.001015    | <0.001015    |              |             |
| 11/2/2021  |              |              |              |              | <0.001015    |              |              | <0.001015    | <0.001015   |
| 5/24/2022  | <0.001015    |              |              | <0.001015    |              |              |              |              |             |
| 5/25/2022  |              | <0.001015    | <0.001015    |              | <0.001015    | <0.001015    | <0.001015    | <0.001015    | <0.001015   |
| 10/31/2022 | <0.001015    |              |              |              | <0.001015    | <0.001015    | <0.001015    | <0.001015    | <0.001015   |
| 11/1/2022  |              | <0.001015    | <0.001015    |              |              | <0.001015    |              |              |             |
| 11/2/2022  |              |              |              | <0.001015    |              |              |              |              |             |
| 4/3/2023   |              |              |              | <0.001015    | <0.001015    |              |              |              |             |
| 4/4/2023   |              | <0.001015    | <0.001015    |              |              | <0.001015    | <0.001015    | <0.001015    | <0.001015   |
| 4/24/2023  | <0.001015    |              |              |              |              |              |              |              |             |

# Time Series

Constituent: Antimony (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-6   | BY-AP-MW-7  |
|------------|--------------|-------------|
| 3/1/2016   | <0.001015    | <0.001015   |
| 3/2/2016   |              |             |
| 4/19/2016  | <0.001015    |             |
| 4/20/2016  |              | <0.001015   |
| 6/7/2016   | <0.001015    | <0.001015   |
| 8/30/2016  | <0.001015    |             |
| 8/31/2016  |              | <0.001015   |
| 10/18/2016 |              |             |
| 10/19/2016 | <0.001015    | <0.001015   |
| 1/31/2017  | 0.000852 (J) | 0.00107 (J) |
| 5/2/2017   |              |             |
| 5/3/2017   | <0.001015    | <0.001015   |
| 6/6/2017   |              |             |
| 6/7/2017   | <0.001015    | <0.001015   |
| 1/24/2018  | <0.001015    | <0.001015   |
| 5/1/2018   |              |             |
| 5/2/2018   | <0.001015    | <0.001015   |
| 11/27/2018 |              |             |
| 11/28/2018 | <0.001015    | <0.001015   |
| 1/8/2019   |              |             |
| 5/29/2019  | <0.001015    | <0.001015   |
| 7/31/2019  |              |             |
| 9/30/2019  |              | <0.001015   |
| 10/1/2019  | <0.001015    |             |
| 10/2/2019  |              |             |
| 3/30/2020  |              | <0.001015   |
| 3/31/2020  | <0.001015    |             |
| 4/1/2020   |              |             |
| 9/1/2020   |              |             |
| 9/2/2020   | <0.001015    | <0.001015   |
| 5/17/2021  | <0.001015    |             |
| 5/18/2021  |              | <0.001015   |
| 5/24/2021  |              |             |
| 5/25/2021  |              |             |
| 10/26/2021 |              |             |
| 10/27/2021 |              | <0.001015   |
| 11/1/2021  |              |             |
| 11/2/2021  | <0.001015    |             |
| 5/24/2022  |              | <0.001015   |
| 5/25/2022  | <0.001015    |             |
| 10/31/2022 | <0.001015    | <0.001015   |
| 11/1/2022  |              |             |
| 11/2/2022  |              |             |
| 4/3/2023   |              | <0.001015   |
| 4/4/2023   | <0.001015    |             |
| 4/24/2023  |              |             |



# Time Series

Constituent: Antimony (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-7V  | BY-AP-MW-8  | BY-AP-MW-8V | BY-AP-MW-9   | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|------------|--------------|-------------|-------------|--------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 2/23/2016  |              |             |             |              | <0.001015       | <0.001015       | <0.001015       | 0.000606 (J)    |              |
| 3/1/2016   |              | <0.001015   |             | <0.001015    |                 |                 |                 |                 |              |
| 4/19/2016  |              |             |             |              | <0.001015       | <0.001015       | <0.001015       | <0.001015       |              |
| 4/20/2016  |              | <0.001015   |             | <0.001015    |                 |                 |                 |                 |              |
| 6/6/2016   |              |             |             |              | <0.001015       |                 |                 |                 | <0.001015    |
| 6/7/2016   |              | <0.001015   |             |              |                 | <0.001015       | <0.001015       |                 |              |
| 6/8/2016   |              |             |             | <0.001015    |                 |                 |                 |                 |              |
| 8/30/2016  |              | <0.001015   |             |              | <0.001015       | <0.001015       | <0.001015       | <0.001015       |              |
| 8/31/2016  |              |             |             | <0.001015    |                 |                 |                 |                 |              |
| 10/18/2016 |              | <0.001015   |             |              | <0.001015       | <0.001015       | <0.001015       | <0.001015       |              |
| 10/19/2016 |              |             |             | <0.001015    |                 |                 |                 |                 |              |
| 1/31/2017  |              | 0.00074 (J) |             |              | 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   |             | <0.001015    |                 |                 |                 |                 |              |
| 6/6/2017   |              |             |             |              | <0.001015       | <0.001015       | <0.001015       | <0.001015       |              |
| 6/7/2017   |              | <0.001015   |             | <0.001015    |                 |                 |                 |                 |              |
| 1/23/2018  |              |             |             | <0.001015    | <0.001015       | <0.001015       | <0.001015       | <0.001015       |              |
| 1/24/2018  |              | <0.001015   |             |              |                 |                 |                 |                 |              |
| 5/1/2018   |              |             |             |              |                 | <0.001015       | <0.001015       | <0.001015       |              |
| 5/2/2018   |              | <0.001015   |             | <0.001015    | <0.001015       |                 |                 |                 |              |
| 11/26/2018 |              |             |             |              |                 |                 |                 |                 | <0.001015    |
| 11/27/2018 |              | <0.001015   |             |              | <0.001015       | <0.001015       | <0.001015       |                 |              |
| 11/28/2018 |              |             |             | <0.001015    |                 |                 |                 |                 |              |
| 1/9/2019   | 0.000861 (J) |             | <0.001015   |              |                 |                 |                 |                 |              |
| 5/28/2019  |              |             |             |              |                 |                 |                 |                 | <0.001015    |
| 5/29/2019  |              | <0.001015   |             |              | <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   |              |                 |                 |                 |                 |              |
| 10/2/2019  |              |             |             |              | <0.001015       | <0.001015       | <0.001015       | <0.001015       |              |
| 3/30/2020  | <0.001015    | <0.001015   | <0.001015   |              |                 |                 |                 |                 |              |
| 3/31/2020  |              |             |             | <0.001015    | <0.001015       | <0.001015       | <0.001015       | <0.001015       |              |
| 9/2/2020   | <0.001015    | <0.001015   | <0.001015   | <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       | <0.001015       |              |
| 5/12/2021  |              |             |             |              | <0.001015       |                 |                 |                 |              |
| 5/18/2021  | <0.001015    |             | <0.001015   | <0.001015    |                 |                 |                 |                 |              |
| 5/24/2021  |              |             |             |              |                 |                 |                 |                 | <0.001015    |
| 10/18/2021 |              |             |             |              |                 |                 | <0.001015       | <0.001015       |              |
| 10/19/2021 |              |             |             |              | <0.001015       | <0.001015       |                 |                 |              |
| 10/26/2021 |              | <0.001015   | <0.001015   |              |                 |                 |                 |                 |              |
| 10/27/2021 | <0.001015    |             |             | <0.001015    |                 |                 |                 |                 |              |
| 11/2/2021  |              |             |             |              |                 |                 |                 |                 | <0.001015    |
| 5/23/2022  |              |             | <0.001015   |              |                 |                 |                 |                 |              |
| 5/24/2022  | <0.001015    | <0.001015   |             | <0.001015    |                 |                 |                 |                 |              |
| 5/25/2022  |              |             |             |              |                 |                 |                 |                 | <0.001015    |
| 5/31/2022  |              |             |             |              | <0.001015       | <0.001015       | <0.001015       | <0.001015       |              |
| 10/31/2022 | <0.001015    |             | <0.001015   | <0.001015    |                 |                 |                 |                 |              |
| 11/1/2022  |              |             |             |              | <0.001015       | <0.001015       | <0.001015       | <0.001015       | <0.001015    |
| 11/2/2022  |              | <0.001015   |             |              |                 |                 |                 |                 |              |

# Time Series

Constituent: Antimony (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|           | BY-AP-MW-7V | BY-AP-MW-8 | BY-AP-MW-8V | BY-AP-MW-9 | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|-----------|-------------|------------|-------------|------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 4/3/2023  | <0.001015   | <0.001015  | <0.001015   |            |                 |                 |                 |                 | <0.001015    |
| 4/4/2023  |             |            |             | <0.001015  |                 |                 |                 |                 |              |
| 4/12/2023 |             |            |             |            | <0.001015       | <0.001015       | <0.001015       | <0.001015       |              |

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

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-13V | BY-AP-MW-14 |
|------------|------------|-------------|--------------|-------------|-------------|--------------|-------------|--------------|-------------|
| 3/1/2016   |            | 0.0264      |              | 0.01        |             |              |             |              |             |
| 3/2/2016   | 0.076      |             |              |             | 0.0215      |              | 0.0115      |              | 0.0101      |
| 4/19/2016  | 0.0973     |             |              |             |             |              |             |              |             |
| 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      |
| 8/30/2016  |            |             |              |             |             |              |             |              | 0.0127      |
| 8/31/2016  | 0.0687     | 0.0304      |              | 0.0149      | 0.0223      |              | 0.0127      |              |             |
| 10/18/2016 |            |             |              |             |             |              |             |              | 0.0136      |
| 10/19/2016 | 0.0701     | 0.0314      |              | 0.0149      | 0.0227      |              | 0.0131      |              |             |
| 1/31/2017  | 0.0669     |             |              |             |             |              | 0.0131      |              | 0.0124      |
| 2/1/2017   |            | 0.0274      |              | 0.0151      | 0.0215      |              |             |              |             |
| 5/2/2017   | 0.0672     |             |              |             |             |              |             |              | 0.0131      |
| 5/3/2017   |            | 0.03        |              | 0.0155      | 0.0227      |              | 0.014       |              |             |
| 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      |              |             |
| 1/8/2019   |            |             | <0.005       |             |             | 0.0112       |             |              |             |
| 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     |             | <0.005       |             | 0.0221      |              | 0.0144      |              | 0.0152      |
| 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   |            |             |              |             |             |              |             |              |             |
| 9/1/2020   | 0.0811     | 0.0763      | <0.005       | 0.0165      | 0.0246      | 0.0257       | 0.0148      |              |             |
| 9/2/2020   |            |             |              |             |             |              |             | 0.00708      | 0.0174      |
| 5/11/2021  |            | 0.0762      |              |             |             |              |             |              |             |
| 5/18/2021  | 0.0687     |             | 0.000356     |             | 0.0237      | 0.0251       |             |              |             |
| 5/19/2021  |            |             |              | 0.0166      |             |              | 0.014       | 0.00877      |             |
| 5/25/2021  |            |             |              |             |             |              |             |              | 0.0172      |
| 10/26/2021 |            |             |              |             |             |              | 0.013       | 0.0103       |             |
| 10/27/2021 |            | 0.0705      | 0.00033      |             |             |              |             |              | 0.0174      |
| 11/1/2021  | 0.0694     |             |              |             | 0.0245      | 0.0256       |             |              |             |
| 11/2/2021  |            |             |              | 0.0161      |             |              |             |              |             |
| 5/23/2022  |            |             |              | 0.0142      | 0.0245      | 0.0257       |             |              |             |
| 5/24/2022  | 0.0767     | 0.0775      | 0.00036      |             |             |              | 0.0128      |              |             |
| 5/25/2022  |            |             |              |             |             |              |             | 0.0102       | 0.0183      |
| 11/1/2022  |            |             | 0.000299     | 0.0148      | 0.0226      | 0.0241       | 0.0208      | 0.00887      | 0.0174      |
| 11/2/2022  | 0.0682     | 0.0742      |              |             |             |              |             |              |             |
| 4/3/2023   | 0.068      | 0.0561      | 0.000359     |             |             |              |             |              |             |
| 4/4/2023   |            |             |              | 0.0128      | 0.0218      | 0.0214       | 0.00645     | 0.00843      |             |
| 4/5/2023   |            |             |              |             |             |              |             |              | 0.017       |

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-14V | BY-AP-MW-15 |
|------------|--------------|-------------|
| 3/1/2016   |              |             |
| 3/2/2016   |              | 0.0128      |
| 4/19/2016  |              | 0.0157      |
| 4/20/2016  |              |             |
| 6/8/2016   |              | 0.0168      |
| 8/30/2016  |              |             |
| 8/31/2016  |              | 0.0168      |
| 10/18/2016 |              |             |
| 10/19/2016 |              | 0.0178      |
| 1/31/2017  |              | 0.0164      |
| 2/1/2017   |              |             |
| 5/2/2017   |              | 0.0172      |
| 5/3/2017   |              |             |
| 6/6/2017   |              | 0.0158      |
| 6/7/2017   |              |             |
| 1/22/2018  |              | 0.0173      |
| 1/23/2018  |              |             |
| 1/24/2018  |              |             |
| 5/1/2018   |              | 0.0181      |
| 5/2/2018   |              |             |
| 11/27/2018 |              | 0.0158      |
| 11/28/2018 |              |             |
| 1/8/2019   |              |             |
| 5/29/2019  |              | 0.0148      |
| 5/30/2019  |              |             |
| 7/31/2019  |              |             |
| 9/30/2019  |              |             |
| 10/1/2019  |              | 0.017       |
| 10/2/2019  |              |             |
| 3/30/2020  |              |             |
| 3/31/2020  |              |             |
| 4/1/2020   |              | 0.0183      |
| 9/1/2020   |              |             |
| 9/2/2020   | 0.00433 (J)  | 0.0206      |
| 5/11/2021  |              | 0.0184      |
| 5/18/2021  |              |             |
| 5/19/2021  |              |             |
| 5/25/2021  | 0.00324      |             |
| 10/26/2021 | 0.0041       | 0.0186      |
| 10/27/2021 |              |             |
| 11/1/2021  |              |             |
| 11/2/2021  |              |             |
| 5/23/2022  |              |             |
| 5/24/2022  | 0.00572      |             |
| 5/25/2022  |              | 0.0176      |
| 11/1/2022  | 0.0057       | 0.0177      |
| 11/2/2022  |              |             |
| 4/3/2023   |              | 0.02        |
| 4/4/2023   | 0.00501      |             |
| 4/5/2023   |              |             |

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-15V | BY-AP-MW-16 | BY-AP-MW-16V | BY-AP-MW-17H | BY-AP-MW-17V | BY-AP-MW-18H | BY-AP-MW-19H | BY-AP-MW-1V | BY-AP-MW-2  |
|------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|
| 3/2/2016   |              | 0.0102      |              |              |              |              |              |             | 0.00263 (J) |
| 4/19/2016  |              | 0.0103      |              |              |              |              |              |             | 0.00247 (J) |
| 6/8/2016   |              | 0.0105      |              |              |              |              |              |             | 0.0023 (J)  |
| 8/31/2016  |              | 0.0117      |              |              |              |              |              |             | 0.00237 (J) |
| 10/19/2016 |              | 0.0108      |              |              |              |              |              |             | 0.00241 (J) |
| 1/31/2017  |              | 0.0102      |              |              |              |              |              |             | 0.00185 (J) |
| 5/2/2017   |              | 0.0102      |              |              |              |              |              |             | 0.00194 (J) |
| 6/6/2017   |              | 0.00982     |              |              |              |              |              |             | 0.00175 (J) |
| 1/23/2018  |              | 0.0151      |              |              |              |              |              |             |             |
| 1/24/2018  |              |             |              |              |              |              |              |             | 0.00158 (J) |
| 5/1/2018   |              | 0.0114      |              |              |              |              |              |             | 0.00166 (J) |
| 11/27/2018 |              | 0.0108      |              |              |              |              |              |             | 0.00144 (J) |
| 1/8/2019   |              |             |              |              |              |              |              | 0.00109 (J) |             |
| 3/20/2019  |              |             |              |              |              | 0.00831      |              |             |             |
| 5/29/2019  |              | 0.0106      |              |              |              |              |              |             | 0.00132 (J) |
| 7/31/2019  | 0.0174       |             |              | 0.0221       |              |              | 0.00118 (J)  |             |             |
| 10/1/2019  | 0.0243       | 0.0138      |              |              |              | 0.0137       | <0.005       |             | 0.0014 (J)  |
| 10/2/2019  |              |             |              | 0.0251       |              |              |              | 0.00157 (J) |             |
| 3/30/2020  |              |             |              |              |              |              |              | 0.00152 (J) |             |
| 3/31/2020  |              | 0.012       |              |              |              |              |              |             | 0.00149 (J) |
| 4/1/2020   |              |             |              | 0.0208       |              | 0.00937      |              |             |             |
| 8/31/2020  |              |             |              |              |              |              |              |             | 0.00176 (J) |
| 9/1/2020   | 0.0401       |             |              | 0.0371       | 0.00472 (J)  | 0.015        | 0.00101 (J)  | 0.00179 (J) |             |
| 9/2/2020   |              | 0.0137      | 0.0012 (J)   |              |              |              |              |             |             |
| 5/17/2021  |              |             |              | 0.0329       |              |              |              |             |             |
| 5/18/2021  |              |             |              |              | 0.00546      |              |              | 0.00144     | 0.00159     |
| 5/19/2021  |              | 0.0118      | 0.00123      |              |              | 0.0147       |              |             |             |
| 5/25/2021  | 0.0233       |             |              |              |              |              | 0.0015       |             |             |
| 10/25/2021 |              |             |              | 0.0373       | 0.00162      | 0.0156       | 0.00134      |             |             |
| 10/26/2021 | 0.0248       |             | 0.00105      |              |              |              |              |             |             |
| 11/1/2021  |              | 0.0151      |              |              |              |              |              | 0.00086     | 0.00191     |
| 5/23/2022  |              |             |              |              |              | 0.0143       |              |             |             |
| 5/24/2022  | 0.0333       |             |              |              |              |              | 0.00099      | 0.00079     | 0.00115     |
| 5/25/2022  |              | 0.0134      | 0.00112      | 0.03         | 0.00192      |              |              |             |             |
| 10/31/2022 |              |             |              | 0.0281       | 0.00144      | 0.00934      | 0.000896     |             |             |
| 11/1/2022  |              | 0.0161      | 0.00102      |              |              |              |              | 0.000464    |             |
| 11/2/2022  | 0.0403       |             |              |              |              |              |              |             | 0.00151     |
| 4/3/2023   |              |             |              |              |              |              |              |             | 0.00156     |
| 4/4/2023   |              |             | 0.00092      | 0.0192       | 0.00113      |              |              | 0.000633    |             |
| 4/5/2023   |              | 0.0156      |              |              |              | 0.000869     |              |             |             |
| 4/24/2023  | 0.0224       |             |              |              |              |              | 0.000745     |             |             |

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-20H | BY-AP-MW-20V |
|------------|--------------|--------------|
| 3/2/2016   |              |              |
| 4/19/2016  |              |              |
| 6/8/2016   |              |              |
| 8/31/2016  |              |              |
| 10/19/2016 |              |              |
| 1/31/2017  |              |              |
| 5/2/2017   |              |              |
| 6/6/2017   |              |              |
| 1/23/2018  |              |              |
| 1/24/2018  |              |              |
| 5/1/2018   |              |              |
| 11/27/2018 |              |              |
| 1/8/2019   |              |              |
| 3/20/2019  |              |              |
| 5/29/2019  |              |              |
| 7/31/2019  | 0.0112       |              |
| 10/1/2019  | 0.013        |              |
| 10/2/2019  |              |              |
| 3/30/2020  |              |              |
| 3/31/2020  |              |              |
| 4/1/2020   | 0.00508      |              |
| 8/31/2020  |              |              |
| 9/1/2020   | 0.0172       | 0.00845      |
| 9/2/2020   |              |              |
| 5/17/2021  |              |              |
| 5/18/2021  |              |              |
| 5/19/2021  | 0.0132       | 0.0148       |
| 5/25/2021  |              |              |
| 10/25/2021 |              |              |
| 10/26/2021 | 0.0133       |              |
| 11/1/2021  |              | 0.0182       |
| 5/23/2022  | 0.0136       |              |
| 5/24/2022  |              | 0.0188       |
| 5/25/2022  |              |              |
| 10/31/2022 | 0.0131       |              |
| 11/1/2022  |              | 0.0186       |
| 11/2/2022  |              |              |
| 4/3/2023   |              |              |
| 4/4/2023   |              |              |
| 4/5/2023   |              |              |
| 4/24/2023  | 0.0133       | 0.00175      |

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-22H | BY-AP-MW-23H | BY-AP-MW-23V | BY-AP-MW-24H | BY-AP-MW-25H | BY-AP-MW-3   | BY-AP-MW-4   | BY-AP-MW-5 | BY-AP-MW-5V |
|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|-------------|
| 3/1/2016   |              |              |              |              |              |              | <0.000203    | 0.0277     |             |
| 3/2/2016   |              |              |              |              |              | <0.0002      |              |            |             |
| 4/19/2016  |              |              |              |              |              | <0.0002      | <0.000203    |            |             |
| 4/20/2016  |              |              |              |              |              |              |              | 0.0307     |             |
| 6/7/2016   |              |              |              |              |              | <0.0002      | <0.000203    | 0.0308     |             |
| 8/30/2016  |              |              |              |              |              |              | <0.000203    | 0.033      |             |
| 8/31/2016  |              |              |              |              |              | <0.0002      |              |            |             |
| 10/18/2016 |              |              |              |              |              |              |              | 0.0296     |             |
| 10/19/2016 |              |              |              |              |              | <0.0002      | <0.000203    |            |             |
| 1/31/2017  |              |              |              |              |              | <0.0002      | <0.000203    | 0.0264     |             |
| 5/2/2017   |              |              |              |              |              | <0.0002      | <0.000203    |            |             |
| 5/3/2017   |              |              |              |              |              |              |              | 0.0309     |             |
| 6/6/2017   |              |              |              |              |              | <0.0002      | <0.000203    |            |             |
| 6/7/2017   |              |              |              |              |              |              |              | 0.0283     |             |
| 1/24/2018  |              |              |              |              |              | <0.0002      | <0.000203    | 0.0282     |             |
| 5/1/2018   |              |              |              |              |              | <0.0002      | <0.000203    |            |             |
| 5/2/2018   |              |              |              |              |              |              |              | 0.0315     |             |
| 11/27/2018 |              |              |              |              |              | <0.0002      | <0.000203    | 0.0283     |             |
| 11/28/2018 |              |              |              |              |              |              |              |            |             |
| 1/8/2019   |              |              |              | 0.0306       |              |              |              |            | <0.000203   |
| 5/29/2019  |              |              |              |              |              | <0.0002      | <0.000203    | 0.0301     |             |
| 7/31/2019  | 0.0225       | 0.0132       |              |              |              |              |              |            |             |
| 9/30/2019  |              |              |              |              |              |              |              |            |             |
| 10/1/2019  | 0.0225       | 0.013        |              |              |              | <0.0002      | <0.000203    | 0.0307     |             |
| 10/2/2019  |              |              |              | 0.0673       |              |              |              |            | <0.000203   |
| 3/30/2020  |              |              |              |              |              |              |              |            |             |
| 3/31/2020  |              |              |              | 0.0729       |              | <0.0002      | <0.000203    | 0.0329     | <0.000203   |
| 4/1/2020   |              | 0.00689      |              |              |              |              |              |            |             |
| 9/1/2020   | 0.0217       | 0.0226       | <0.005       |              |              | <0.0002      | <0.000203    | 0.0372     | <0.000203   |
| 9/2/2020   |              |              |              | 0.0783       | <0.005       |              |              |            |             |
| 5/17/2021  |              |              | 0.00119      |              |              |              |              |            |             |
| 5/18/2021  |              |              |              |              |              | <0.0002      | 0.000125 (J) |            |             |
| 5/24/2021  |              | 0.0133       |              |              | 8.73E-05 (J) |              |              |            |             |
| 5/25/2021  | 0.0191       |              |              | 0.0693       |              |              |              |            |             |
| 10/26/2021 | 0.0202       | 0.00807      | 0.00119      | 0.0752       |              |              |              |            |             |
| 10/27/2021 |              |              |              |              |              |              |              |            |             |
| 11/1/2021  |              |              |              |              |              | <0.0002      | 0.0002       |            |             |
| 11/2/2021  |              |              |              |              | 0.00016 (J)  |              |              | 0.0357     | 0.00101     |
| 5/24/2022  | 0.0197       |              |              | 0.0718       |              |              |              |            |             |
| 5/25/2022  |              | 0.00518      | 0.00149      |              | 0.0002 (J)   | <0.0002      | <0.000203    | 0.0316     | 0.00017 (J) |
| 10/31/2022 | 0.0183       |              |              |              | 0.000176 (J) |              | 9.9E-05 (J)  | 0.0292     | 0.000618    |
| 11/1/2022  |              | 0.00463      | 0.00195      |              |              | 0.000102 (J) |              |            |             |
| 11/2/2022  |              |              |              | 0.0664       |              |              |              |            |             |
| 4/3/2023   |              |              |              | 0.0694       | 0.000135 (J) |              |              |            |             |
| 4/4/2023   |              | 0.00291      | 0.00445      |              |              | 0.000455     | <0.000203    | 0.0191     | <0.000203   |
| 4/24/2023  | 0.0191       |              |              |              |              |              |              |            |             |

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-6   | BY-AP-MW-7 |
|------------|--------------|------------|
| 3/1/2016   | 0.00142 (J)  | 0.0166     |
| 3/2/2016   |              |            |
| 4/19/2016  | 0.00138 (J)  |            |
| 4/20/2016  |              | 0.02       |
| 6/7/2016   | <0.000203    | 0.0223     |
| 8/30/2016  | <0.000203    |            |
| 8/31/2016  |              | 0.0231     |
| 10/18/2016 |              |            |
| 10/19/2016 | <0.000203    | 0.0244     |
| 1/31/2017  | <0.000203    | 0.0197     |
| 5/2/2017   |              |            |
| 5/3/2017   | <0.000203    | 0.0212     |
| 6/6/2017   |              |            |
| 6/7/2017   | <0.000203    | 0.0203     |
| 1/24/2018  | <0.000203    | 0.0214     |
| 5/1/2018   |              |            |
| 5/2/2018   | <0.000203    | 0.0218     |
| 11/27/2018 |              |            |
| 11/28/2018 | <0.000203    | 0.0209     |
| 1/8/2019   |              |            |
| 5/29/2019  | <0.000203    | 0.0178     |
| 7/31/2019  |              |            |
| 9/30/2019  |              | 0.0217     |
| 10/1/2019  | <0.000203    |            |
| 10/2/2019  |              |            |
| 3/30/2020  |              | 0.0215     |
| 3/31/2020  | <0.000203    |            |
| 4/1/2020   |              |            |
| 9/1/2020   |              |            |
| 9/2/2020   | <0.000203    | 0.0234     |
| 5/17/2021  | 0.000103 (J) |            |
| 5/18/2021  |              | 0.0215     |
| 5/24/2021  |              |            |
| 5/25/2021  |              |            |
| 10/26/2021 |              |            |
| 10/27/2021 |              | 0.0236     |
| 11/1/2021  |              |            |
| 11/2/2021  | 0.0001 (J)   |            |
| 5/24/2022  |              | 0.0197     |
| 5/25/2022  | <0.000203    |            |
| 10/31/2022 | <0.000203    | 0.00873    |
| 11/1/2022  |              |            |
| 11/2/2022  |              |            |
| 4/3/2023   |              | 0.013      |
| 4/4/2023   | <0.000203    |            |
| 4/24/2023  |              |            |



# Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-7V | BY-AP-MW-8 | BY-AP-MW-8V | BY-AP-MW-9 | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|------------|-------------|------------|-------------|------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 2/23/2016  |             |            |             |            | <0.005          | <0.005          | <0.000203       | <0.005          |              |
| 3/1/2016   |             | 0.036      |             | 0.0322     |                 |                 |                 |                 |              |
| 4/19/2016  |             |            |             |            | <0.005          | <0.005          | <0.000203       | <0.005          |              |
| 4/20/2016  |             | 0.0399     |             | 0.0354     |                 |                 |                 |                 |              |
| 6/6/2016   |             |            |             |            | <0.005          |                 |                 | <0.005          |              |
| 6/7/2016   |             | 0.0401     |             |            |                 | <0.005          | <0.000203       |                 |              |
| 6/8/2016   |             |            |             | 0.0385     |                 |                 |                 |                 |              |
| 8/30/2016  |             | 0.0387     |             |            | <0.005          | <0.005          | <0.000203       | <0.005          |              |
| 8/31/2016  |             |            |             | 0.0404     |                 |                 |                 |                 |              |
| 10/18/2016 |             | 0.0394     |             |            | <0.005          | <0.005          | <0.000203       | <0.005          |              |
| 10/19/2016 |             |            |             | 0.0412     |                 |                 |                 |                 |              |
| 1/31/2017  |             | 0.0408     |             |            | <0.005          | <0.005          | <0.000203       | <0.005          |              |
| 2/1/2017   |             |            |             | 0.0374     |                 |                 |                 |                 |              |
| 5/2/2017   |             |            |             |            | <0.005          | <0.005          | <0.000203       | <0.005          |              |
| 5/3/2017   |             | 0.0416     |             | 0.0444     |                 |                 |                 |                 |              |
| 6/6/2017   |             |            |             |            | <0.005          | <0.005          | <0.000203       | <0.005          |              |
| 6/7/2017   |             | 0.0395     |             | 0.0423     |                 |                 |                 |                 |              |
| 1/23/2018  |             |            |             | 0.0435     | <0.005          | <0.005          | <0.000203       | <0.005          |              |
| 1/24/2018  |             | 0.0536     |             |            |                 |                 |                 |                 |              |
| 5/1/2018   |             |            |             |            |                 | <0.005          | <0.000203       | <0.005          |              |
| 5/2/2018   |             | 0.0572     |             | 0.0437     | <0.005          |                 |                 |                 |              |
| 11/26/2018 |             |            |             |            |                 |                 |                 | <0.005          |              |
| 11/27/2018 |             | 0.0536     |             |            | <0.005          | <0.005          | <0.000203       |                 |              |
| 11/28/2018 |             |            |             | 0.0422     |                 |                 |                 |                 |              |
| 1/9/2019   | <0.005      |            | 0.00121 (J) |            |                 |                 |                 |                 |              |
| 5/28/2019  |             |            |             |            |                 |                 |                 | <0.005          |              |
| 5/29/2019  |             | 0.0482     |             |            | <0.005          | <0.005          | <0.000203       |                 |              |
| 5/30/2019  |             |            |             | 0.0349     |                 |                 |                 |                 |              |
| 9/30/2019  |             | 0.0514     |             | 0.0391     |                 |                 |                 |                 |              |
| 10/1/2019  | 0.00278 (J) |            | 0.00243 (J) |            |                 |                 |                 |                 |              |
| 10/2/2019  |             |            |             |            | <0.005          | <0.005          | <0.000203       | <0.005          |              |
| 3/30/2020  | 0.005       | 0.0589     | 0.00275 (J) |            |                 |                 |                 |                 |              |
| 3/31/2020  |             |            |             | 0.0393     | <0.005          | <0.005          | <0.000203       | 0.0017 (J)      |              |
| 9/2/2020   | 0.0024 (J)  | 0.0629     | 0.00346 (J) | 0.0432     |                 |                 |                 |                 | <0.000203    |
| 9/8/2020   |             |            |             |            |                 |                 |                 | <0.005          |              |
| 9/9/2020   |             |            |             |            | <0.005          | <0.005          | <0.000203       |                 |              |
| 5/11/2021  |             | 0.0659     |             |            |                 | 0.000136 (J)    | <0.000203       | 0.000217        |              |
| 5/12/2021  |             |            |             |            | 0.000336        |                 |                 |                 |              |
| 5/18/2021  | 0.00242     |            | 0.00398     | 0.0435     |                 |                 |                 |                 |              |
| 5/24/2021  |             |            |             |            |                 |                 |                 |                 | <0.000203    |
| 10/18/2021 |             |            |             |            |                 |                 | 9E-05 (J)       | 0.00019 (J)     |              |
| 10/19/2021 |             |            |             |            | 0.00035         | 0.00012 (J)     |                 |                 |              |
| 10/26/2021 |             | 0.0668     | 0.0048      |            |                 |                 |                 |                 |              |
| 10/27/2021 | 0.0027      |            |             | 0.0468     |                 |                 |                 |                 |              |
| 11/2/2021  |             |            |             |            |                 |                 |                 |                 | <0.000203    |
| 5/23/2022  |             |            | 0.00386     |            |                 |                 |                 |                 |              |
| 5/24/2022  | 0.00218     | 0.0583     |             | 0.0404     |                 |                 |                 |                 |              |
| 5/25/2022  |             |            |             |            |                 |                 |                 |                 | <0.000203    |
| 5/31/2022  |             |            |             |            | 0.00024         | 9E-05 (J)       | <0.000203       | 0.0002          |              |
| 10/31/2022 | 0.000983    |            | 0.00136     | 0.023      |                 |                 |                 |                 |              |
| 11/1/2022  |             |            |             |            | 0.000345        | 0.000379        | <0.000203       | 0.000115 (J)    | <0.000203    |
| 11/2/2022  |             | 0.0415     |             |            |                 |                 |                 |                 |              |

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

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|           | BY-AP-MW-7V | BY-AP-MW-8 | BY-AP-MW-8V | BY-AP-MW-9 | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|-----------|-------------|------------|-------------|------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 4/3/2023  | 0.00117     | 0.00353    | 0.000552    |            |                 |                 |                 |                 | <0.000203    |
| 4/4/2023  |             |            |             | 0.0145     |                 |                 |                 |                 |              |
| 4/12/2023 |             |            |             |            | 0.00023         | 0.0002 (J)      | <0.000203       | 0.000114 (J)    |              |



# Time Series

Constituent: Barium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-14V | BY-AP-MW-15 |
|------------|--------------|-------------|
| 3/1/2016   |              |             |
| 3/2/2016   |              | 0.0468      |
| 4/19/2016  |              | 0.043       |
| 4/20/2016  |              |             |
| 6/8/2016   |              | 0.0465      |
| 8/30/2016  |              |             |
| 8/31/2016  |              | 0.0464      |
| 10/18/2016 |              |             |
| 10/19/2016 |              | 0.0481      |
| 1/31/2017  |              | 0.0427      |
| 2/1/2017   |              |             |
| 5/2/2017   |              | 0.0473      |
| 5/3/2017   |              |             |
| 6/6/2017   |              | 0.0437      |
| 6/7/2017   |              |             |
| 1/22/2018  |              | 0.0501      |
| 1/23/2018  |              |             |
| 1/24/2018  |              |             |
| 5/1/2018   |              | 0.0575      |
| 5/2/2018   |              |             |
| 11/27/2018 |              | 0.0557      |
| 11/28/2018 |              |             |
| 1/8/2019   |              |             |
| 5/29/2019  |              | 0.0562      |
| 5/30/2019  |              |             |
| 9/30/2019  |              |             |
| 10/1/2019  |              | 0.0628      |
| 10/2/2019  |              |             |
| 3/30/2020  |              |             |
| 3/31/2020  |              |             |
| 4/1/2020   |              | 0.0697      |
| 9/1/2020   |              |             |
| 9/2/2020   | 0.0766       | 0.0736      |
| 5/11/2021  |              | 0.0762      |
| 5/18/2021  |              |             |
| 5/19/2021  |              |             |
| 5/25/2021  | 0.0729       |             |
| 10/26/2021 | 0.0653       | 0.0784      |
| 10/27/2021 |              |             |
| 11/1/2021  |              |             |
| 11/2/2021  |              |             |
| 5/23/2022  |              |             |
| 5/24/2022  | 0.067        |             |
| 5/25/2022  |              | 0.0846      |
| 11/1/2022  | 0.0617       | 0.0745      |
| 11/2/2022  |              |             |
| 4/3/2023   |              | 0.081       |
| 4/4/2023   | 0.0645       |             |
| 4/5/2023   |              |             |

# Time Series

Constituent: Barium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-15V | BY-AP-MW-16 | BY-AP-MW-16V | BY-AP-MW-17H | BY-AP-MW-17V | BY-AP-MW-18H | BY-AP-MW-19H | BY-AP-MW-1V | BY-AP-MW-2 |
|------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|-------------|------------|
| 3/2/2016   |              | 0.0921      |              |              |              |              |              |             | 0.0285     |
| 4/19/2016  |              | 0.0775      |              |              |              |              |              |             | 0.0268     |
| 6/8/2016   |              | 0.0798      |              |              |              |              |              |             | 0.0248     |
| 8/31/2016  |              | 0.0801      |              |              |              |              |              |             | 0.026      |
| 10/19/2016 |              | 0.0766      |              |              |              |              |              |             | 0.0247     |
| 1/31/2017  |              | 0.075       |              |              |              |              |              |             | 0.0228     |
| 5/2/2017   |              | 0.0761      |              |              |              |              |              |             | 0.0257     |
| 6/6/2017   |              | 0.07        |              |              |              |              |              |             | 0.0219     |
| 1/23/2018  |              | 0.0779      |              |              |              |              |              |             |            |
| 1/24/2018  |              |             |              |              |              |              |              |             | 0.0229     |
| 5/1/2018   |              | 0.0877      |              |              |              |              |              |             | 0.0279     |
| 11/27/2018 |              | 0.0792      |              |              |              |              |              |             | 0.0249     |
| 1/8/2019   |              |             |              |              |              |              |              | 0.0826      |            |
| 3/20/2019  |              |             |              |              |              | 0.152        |              |             |            |
| 5/29/2019  |              | 0.081       |              |              |              |              |              |             | 0.0232     |
| 7/31/2019  | 0.144        |             |              | 0.138        |              |              | 0.14         |             |            |
| 10/1/2019  | 0.13         | 0.0803      |              |              |              | 0.126        | 0.113        |             | 0.0241     |
| 10/2/2019  |              |             |              | 0.117        |              |              |              | 0.0611      |            |
| 3/30/2020  |              |             |              |              |              |              |              | 0.062       |            |
| 3/31/2020  |              | 0.091       |              |              |              |              |              |             | 0.0264     |
| 4/1/2020   |              |             |              | 0.194        |              | 0.109        |              |             |            |
| 8/31/2020  |              |             |              |              |              |              |              |             | 0.0275     |
| 9/1/2020   | 0.134        |             |              | 0.114        | 0.277        | 0.123        | 0.159        | 0.0795      |            |
| 9/2/2020   |              | 0.0954      | 0.0733       |              |              |              |              |             |            |
| 5/17/2021  |              |             |              | 0.125        |              |              |              |             |            |
| 5/18/2021  |              |             |              |              | 0.255        |              |              | 0.0861      | 0.0259     |
| 5/19/2021  |              | 0.102       | 0.0743       |              |              | 0.147        |              |             |            |
| 5/25/2021  | 0.184        |             |              |              |              |              | 0.104        |             |            |
| 10/25/2021 |              |             |              | 0.0953       | 0.0928       | 0.12         | 0.0738       |             |            |
| 10/26/2021 | 0.149        |             | 0.0589       |              |              |              |              |             |            |
| 11/1/2021  |              | 0.0988      |              |              |              |              |              | 0.0731      | 0.0247     |
| 5/23/2022  |              |             |              |              |              | 0.127        |              |             |            |
| 5/24/2022  | 0.156        |             |              |              |              |              | 0.0796       | 0.0863      | 0.0248     |
| 5/25/2022  |              | 0.0977      | 0.0569       | 0.126        | 0.698        |              |              |             |            |
| 10/31/2022 |              |             |              | 0.116        | 0.804        | 0.119        | 0.123        |             |            |
| 11/1/2022  |              | 0.0905      | 0.0656       |              |              |              |              | 0.0843      |            |
| 11/2/2022  | 0.153        |             |              |              |              |              |              |             | 0.0201     |
| 4/3/2023   |              |             |              |              |              |              |              |             | 0.018      |
| 4/4/2023   |              |             | 0.0618       | 0.125        | 1.11         |              |              | 0.0564      |            |
| 4/5/2023   |              | 0.0852      |              |              |              | 0.0207       |              |             |            |
| 4/24/2023  | 0.164        |             |              |              |              |              | 0.136        |             |            |

# Time Series

Constituent: Barium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-20H | BY-AP-MW-20V |
|------------|--------------|--------------|
| 3/2/2016   |              |              |
| 4/19/2016  |              |              |
| 6/8/2016   |              |              |
| 8/31/2016  |              |              |
| 10/19/2016 |              |              |
| 1/31/2017  |              |              |
| 5/2/2017   |              |              |
| 6/6/2017   |              |              |
| 1/23/2018  |              |              |
| 1/24/2018  |              |              |
| 5/1/2018   |              |              |
| 11/27/2018 |              |              |
| 1/8/2019   |              |              |
| 3/20/2019  |              |              |
| 5/29/2019  |              |              |
| 7/31/2019  | 0.0928       |              |
| 10/1/2019  | 0.0913       |              |
| 10/2/2019  |              |              |
| 3/30/2020  |              |              |
| 3/31/2020  |              |              |
| 4/1/2020   | 0.119        |              |
| 8/31/2020  |              |              |
| 9/1/2020   | 0.11         | 0.115        |
| 9/2/2020   |              |              |
| 5/17/2021  |              |              |
| 5/18/2021  |              |              |
| 5/19/2021  | 0.111        | 0.107        |
| 5/25/2021  |              |              |
| 10/25/2021 |              |              |
| 10/26/2021 | 0.0936       |              |
| 11/1/2021  |              | 0.0883       |
| 5/23/2022  | 0.0963       |              |
| 5/24/2022  |              | 0.0906       |
| 5/25/2022  |              |              |
| 10/31/2022 | 0.0954       |              |
| 11/1/2022  |              | 0.0871       |
| 11/2/2022  |              |              |
| 4/3/2023   |              |              |
| 4/4/2023   |              |              |
| 4/5/2023   |              |              |
| 4/24/2023  | 0.098        | 0.0548       |



# Time Series

Constituent: Barium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-6 | BY-AP-MW-7 |
|------------|------------|------------|
| 3/1/2016   | 0.0278     | 0.0519     |
| 3/2/2016   |            |            |
| 4/19/2016  | 0.0242     |            |
| 4/20/2016  |            | 0.0517     |
| 6/7/2016   | 0.0223     | 0.0577     |
| 8/30/2016  | 0.0242     |            |
| 8/31/2016  |            | 0.0614     |
| 10/18/2016 |            |            |
| 10/19/2016 | 0.024      | 0.0618     |
| 1/31/2017  | 0.0248     | 0.0576     |
| 5/2/2017   |            |            |
| 5/3/2017   | 0.0268     | 0.0601     |
| 6/6/2017   |            |            |
| 6/7/2017   | 0.0256     | 0.054      |
| 1/24/2018  | 0.0254     | 0.0568     |
| 5/1/2018   |            |            |
| 5/2/2018   | 0.0276     | 0.063      |
| 11/27/2018 |            |            |
| 11/28/2018 | 0.0231     | 0.0654     |
| 1/8/2019   |            |            |
| 5/29/2019  | 0.0244     | 0.059      |
| 7/31/2019  |            |            |
| 9/30/2019  |            | 0.0648     |
| 10/1/2019  | 0.0257     |            |
| 10/2/2019  |            |            |
| 3/30/2020  |            | 0.059      |
| 3/31/2020  | 0.0244     |            |
| 4/1/2020   |            |            |
| 9/1/2020   |            |            |
| 9/2/2020   | 0.0282     | 0.0745     |
| 5/17/2021  | 0.0305     |            |
| 5/18/2021  |            | 0.07       |
| 5/24/2021  |            |            |
| 5/25/2021  |            |            |
| 10/26/2021 |            |            |
| 10/27/2021 |            | 0.0664     |
| 11/1/2021  |            |            |
| 11/2/2021  | 0.0286     |            |
| 5/24/2022  |            | 0.0717     |
| 5/25/2022  | 0.0268     |            |
| 10/31/2022 | 0.0263     | 0.0188     |
| 11/1/2022  |            |            |
| 11/2/2022  |            |            |
| 4/3/2023   |            | 0.0288     |
| 4/4/2023   | 0.0275     |            |
| 4/24/2023  |            |            |



# Time Series

Constituent: Barium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-7V | BY-AP-MW-8 | BY-AP-MW-8V | BY-AP-MW-9 | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|------------|-------------|------------|-------------|------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 2/23/2016  |             |            |             |            | 0.117           | 0.111           | 0.0862          | 0.0973          |              |
| 3/1/2016   |             | 0.142      |             | 0.114      |                 |                 |                 |                 |              |
| 4/19/2016  |             |            |             |            | 0.099           | 0.0875          | 0.0718          | 0.0802          |              |
| 4/20/2016  |             | 0.143      |             | 0.114      |                 |                 |                 |                 |              |
| 6/6/2016   |             |            |             |            | 0.107           |                 |                 | 0.0862          |              |
| 6/7/2016   |             | 0.145      |             |            |                 | 0.0979          | 0.0754          |                 |              |
| 6/8/2016   |             |            |             | 0.128      |                 |                 |                 |                 |              |
| 8/30/2016  |             | 0.147      |             |            | 0.106           | 0.108           | 0.0768          | 0.0841          |              |
| 8/31/2016  |             |            |             | 0.123      |                 |                 |                 |                 |              |
| 10/18/2016 |             | 0.14       |             |            | 0.102           | 0.103           | 0.0727          | 0.0715          |              |
| 10/19/2016 |             |            |             | 0.118      |                 |                 |                 |                 |              |
| 1/31/2017  |             | 0.134      |             |            | 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   |             | 0.145      |             | 0.126      |                 |                 |                 |                 |              |
| 6/6/2017   |             |            |             |            | 0.0799          | 0.108           | 0.07            | 0.078           |              |
| 6/7/2017   |             | 0.128      |             | 0.111      |                 |                 |                 |                 |              |
| 1/23/2018  |             |            |             | 0.115      | 0.0884          | 0.153           | 0.0747          | 0.0825          |              |
| 1/24/2018  |             | 0.129      |             |            |                 |                 |                 |                 |              |
| 5/1/2018   |             |            |             |            |                 | 0.167           | 0.0877          | 0.102           |              |
| 5/2/2018   |             | 0.149      |             | 0.125      | 0.137           |                 |                 |                 |              |
| 11/26/2018 |             |            |             |            |                 |                 |                 | 0.0994          |              |
| 11/27/2018 |             | 0.143      |             |            | 0.157           | 0.158           | 0.0804          |                 |              |
| 11/28/2018 |             |            |             | 0.119      |                 |                 |                 |                 |              |
| 1/9/2019   | 0.112       |            | 0.337       |            |                 |                 |                 |                 |              |
| 5/28/2019  |             |            |             |            |                 |                 |                 | 0.102           |              |
| 5/29/2019  |             | 0.138      |             |            | 0.166           | 0.172           | 0.0831          |                 |              |
| 5/30/2019  |             |            |             | 0.112      |                 |                 |                 |                 |              |
| 9/30/2019  |             | 0.138      |             | 0.117      |                 |                 |                 |                 |              |
| 10/1/2019  | 0.0541      |            | 0.264       |            |                 |                 |                 |                 |              |
| 10/2/2019  |             |            |             |            | 0.129           | 0.183           | 0.089           | 0.111           |              |
| 3/30/2020  | 0.0519      | 0.141      | 0.264       |            |                 |                 |                 |                 |              |
| 3/31/2020  |             |            |             | 0.119      | 0.176           | 0.171           | 0.0927          | 0.129           |              |
| 9/2/2020   | 0.0648      | 0.151      | 0.289       | 0.124      |                 |                 |                 |                 | 0.0111       |
| 9/8/2020   |             |            |             |            |                 |                 |                 | 0.125           |              |
| 9/9/2020   |             |            |             |            | 0.124           | 0.172           | 0.0919          |                 |              |
| 5/11/2021  |             | 0.147      |             |            |                 | 0.165           | 0.0981          | 0.125           |              |
| 5/12/2021  |             |            |             |            | 0.123           |                 |                 |                 |              |
| 5/18/2021  | 0.0805      |            | 0.299       | 0.125      |                 |                 |                 |                 |              |
| 5/24/2021  |             |            |             |            |                 |                 |                 |                 | 0.00981      |
| 10/18/2021 |             |            |             |            |                 |                 | 0.0935          | 0.124           |              |
| 10/19/2021 |             |            |             |            | 0.103           | 0.145           |                 |                 |              |
| 10/26/2021 |             | 0.136      | 0.282       |            |                 |                 |                 |                 |              |
| 10/27/2021 | 0.0684      |            |             | 0.117      |                 |                 |                 |                 |              |
| 11/2/2021  |             |            |             |            |                 |                 |                 |                 | 0.00907      |
| 5/23/2022  |             |            | 0.277       |            |                 |                 |                 |                 |              |
| 5/24/2022  | 0.0803      | 0.142      |             | 0.117      |                 |                 |                 |                 |              |
| 5/25/2022  |             |            |             |            |                 |                 |                 |                 | 0.00993      |
| 5/31/2022  |             |            |             |            | 0.1             | 0.153           | 0.0992          | 0.129           |              |
| 10/31/2022 | 0.0179      |            | 0.277       | 0.111      |                 |                 |                 |                 |              |
| 11/1/2022  |             |            |             |            | 0.0804          | 0.145           | 0.0963          | 0.11            | 0.0106       |
| 11/2/2022  |             | 0.149      |             |            |                 |                 |                 |                 |              |

# Time Series

Constituent: Barium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

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|           | BY-AP-MW-7V | BY-AP-MW-8 | BY-AP-MW-8V | BY-AP-MW-9 | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|-----------|-------------|------------|-------------|------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 4/3/2023  | 0.01        | 0.0223     | 0.139       |            |                 |                 |                 |                 | 0.0105       |
| 4/4/2023  |             |            |             | 0.128      |                 |                 |                 |                 |              |
| 4/12/2023 |             |            |             |            | 0.082           | 0.138           | 0.0925          | 0.116           |              |

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

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-13V | BY-AP-MW-14 |
|------------|------------|-------------|--------------|-------------|-------------|--------------|-------------|--------------|-------------|
| 3/1/2016   |            | <0.001015   |              | <0.001015   |             |              |             |              |             |
| 3/2/2016   | <0.001015  |             |              |             | <0.001015   |              | <0.001015   |              | <0.001015   |
| 4/19/2016  | <0.001015  |             |              |             |             |              |             |              |             |
| 4/20/2016  |            | <0.001015   |              | <0.001015   | <0.001015   |              | <0.001015   |              | <0.001015   |
| 6/8/2016   | <0.001015  | <0.001015   |              | <0.001015   | <0.001015   |              | <0.001015   |              | <0.001015   |
| 8/30/2016  |            |             |              |             |             |              |             |              | <0.001015   |
| 8/31/2016  | <0.001015  | <0.001015   |              | <0.001015   | <0.001015   |              | <0.001015   |              |             |
| 10/18/2016 |            |             |              |             |             |              |             |              | <0.001015   |
| 10/19/2016 | <0.001015  | <0.001015   |              | <0.001015   | <0.001015   |              | <0.001015   |              |             |
| 1/31/2017  | <0.001015  |             |              |             |             |              | <0.001015   |              | <0.001015   |
| 2/1/2017   |            | <0.001015   |              | <0.001015   | <0.001015   |              |             |              |             |
| 5/2/2017   | <0.001015  |             |              |             |             |              |             |              | <0.001015   |
| 5/3/2017   |            | <0.001015   |              | <0.001015   | <0.001015   |              | <0.001015   |              |             |
| 6/6/2017   | <0.001015  |             |              |             |             |              |             |              | <0.001015   |
| 6/7/2017   |            | <0.001015   |              | <0.001015   | <0.001015   |              | 0.00103 (J) |              |             |
| 1/22/2018  |            |             |              |             |             |              | <0.001015   |              |             |
| 1/23/2018  |            | <0.001015   |              | <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   |              | <0.001015   |              | <0.001015   |
| 11/27/2018 |            |             |              |             |             |              |             |              | <0.001015   |
| 11/28/2018 | <0.001015  | <0.001015   |              | <0.001015   | <0.001015   |              | <0.001015   |              |             |
| 1/8/2019   |            |             | <0.001015    |             |             | <0.001015    |             |              |             |
| 5/29/2019  | <0.001015  |             |              | <0.001015   | <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   |              | <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    | <0.001015   |              | <0.001015   |
| 4/1/2020   |            |             |              |             |             |              |             |              |             |
| 9/1/2020   | <0.001015  | <0.001015   | <0.001015    | <0.001015   | <0.001015   | <0.001015    | <0.001015   |              |             |
| 9/2/2020   |            |             |              |             |             |              |             | <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   |             |              | <0.001015   | <0.001015    |             |
| 5/25/2021  |            |             |              |             |             |              |             |              | <0.001015   |
| 10/26/2021 |            |             |              |             |             |              | <0.001015   | <0.001015    |             |
| 10/27/2021 |            | <0.001015   | <0.001015    |             |             |              |             |              | <0.001015   |
| 11/1/2021  | <0.001015  |             |              |             | <0.001015   | <0.001015    |             |              |             |
| 11/2/2021  |            |             |              | <0.001015   |             |              |             |              |             |
| 5/23/2022  |            |             |              | <0.001015   | <0.001015   | <0.001015    |             |              |             |
| 5/24/2022  | <0.001015  | <0.001015   | <0.001015    |             |             |              | <0.001015   |              |             |
| 5/25/2022  |            |             |              |             |             |              |             | <0.001015    | <0.001015   |
| 11/1/2022  |            |             | <0.001015    | <0.001015   | <0.001015   | <0.001015    | <0.001015   | <0.001015    | <0.001015   |
| 11/2/2022  | <0.001015  | <0.001015   |              |             |             |              |             |              |             |
| 4/3/2023   | <0.001015  | <0.001015   | <0.001015    |             |             |              |             |              |             |
| 4/4/2023   |            |             |              | <0.001015   | <0.001015   | <0.001015    | <0.001015   | <0.001015    |             |
| 4/5/2023   |            |             |              |             |             |              |             |              | <0.001015   |

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-14V | BY-AP-MW-15 |
|------------|--------------|-------------|
| 3/1/2016   |              |             |
| 3/2/2016   |              | <0.001015   |
| 4/19/2016  |              | <0.001015   |
| 4/20/2016  |              |             |
| 6/8/2016   |              | <0.001015   |
| 8/30/2016  |              |             |
| 8/31/2016  |              | <0.001015   |
| 10/18/2016 |              |             |
| 10/19/2016 |              | <0.001015   |
| 1/31/2017  |              | <0.001015   |
| 2/1/2017   |              |             |
| 5/2/2017   |              | <0.001015   |
| 5/3/2017   |              |             |
| 6/6/2017   |              | <0.001015   |
| 6/7/2017   |              |             |
| 1/22/2018  |              | <0.001015   |
| 1/23/2018  |              |             |
| 1/24/2018  |              |             |
| 5/1/2018   |              | <0.001015   |
| 5/2/2018   |              |             |
| 11/27/2018 |              | <0.001015   |
| 11/28/2018 |              |             |
| 1/8/2019   |              |             |
| 5/29/2019  |              | <0.001015   |
| 5/30/2019  |              |             |
| 9/30/2019  |              |             |
| 10/1/2019  |              | <0.001015   |
| 10/2/2019  |              |             |
| 3/30/2020  |              |             |
| 3/31/2020  |              |             |
| 4/1/2020   |              | <0.001015   |
| 9/1/2020   |              |             |
| 9/2/2020   | <0.001015    | <0.001015   |
| 5/11/2021  |              | <0.001015   |
| 5/18/2021  |              |             |
| 5/19/2021  |              |             |
| 5/25/2021  | <0.001015    |             |
| 10/26/2021 | <0.001015    | <0.001015   |
| 10/27/2021 |              |             |
| 11/1/2021  |              |             |
| 11/2/2021  |              |             |
| 5/23/2022  |              |             |
| 5/24/2022  | <0.001015    |             |
| 5/25/2022  |              | <0.001015   |
| 11/1/2022  | <0.001015    | <0.001015   |
| 11/2/2022  |              |             |
| 4/3/2023   |              | <0.001015   |
| 4/4/2023   | <0.001015    |             |
| 4/5/2023   |              |             |

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-15V | BY-AP-MW-16 | BY-AP-MW-16V | BY-AP-MW-17H | BY-AP-MW-17V | BY-AP-MW-18H | BY-AP-MW-19H | BY-AP-MW-1V | BY-AP-MW-2 |
|------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|-------------|------------|
| 3/2/2016   |              | <0.001015   |              |              |              |              |              |             | <0.001015  |
| 4/19/2016  |              | <0.001015   |              |              |              |              |              |             | <0.001015  |
| 6/8/2016   |              | <0.001015   |              |              |              |              |              |             | <0.001015  |
| 8/31/2016  |              | <0.001015   |              |              |              |              |              |             | <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  |
| 1/23/2018  |              | <0.001015   |              |              |              |              |              |             | <0.001015  |
| 1/24/2018  |              |             |              |              |              |              |              |             | <0.001015  |
| 5/1/2018   |              | <0.001015   |              |              |              |              |              |             | <0.001015  |
| 11/27/2018 |              | <0.001015   |              |              |              |              |              |             | <0.001015  |
| 1/8/2019   |              |             |              |              |              |              |              | <0.001015   |            |
| 3/20/2019  |              |             |              |              |              | <0.001015    |              |             |            |
| 5/29/2019  |              | <0.001015   |              |              |              |              |              |             | <0.001015  |
| 7/31/2019  | <0.001015    |             |              | <0.001015    |              |              | <0.001015    |             |            |
| 10/1/2019  | <0.001015    | <0.001015   |              |              |              | <0.001015    | <0.001015    |             | <0.001015  |
| 10/2/2019  |              |             |              | <0.001015    |              |              |              | <0.001015   |            |
| 3/30/2020  |              |             |              |              |              |              |              | <0.001015   |            |
| 3/31/2020  |              | <0.001015   |              |              |              |              |              |             | <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    | <0.001015   |            |
| 9/2/2020   |              | <0.001015   | <0.001015    |              |              |              |              |             |            |
| 5/17/2021  |              |             |              | <0.001015    |              |              |              |             |            |
| 5/18/2021  |              |             |              |              | <0.001015    |              |              | <0.001015   | <0.001015  |
| 5/19/2021  |              | <0.001015   | <0.001015    |              |              | <0.001015    |              |             |            |
| 5/25/2021  | <0.001015    |             |              |              |              |              | <0.001015    |             |            |
| 10/25/2021 |              |             |              | <0.001015    | <0.001015    | <0.001015    | <0.001015    |             |            |
| 10/26/2021 | <0.001015    |             | <0.001015    |              |              |              |              |             |            |
| 11/1/2021  |              | <0.001015   |              |              |              |              |              | <0.001015   | <0.001015  |
| 5/23/2022  |              |             |              |              |              | <0.001015    |              |             |            |
| 5/24/2022  | <0.001015    |             |              |              |              |              | <0.001015    | <0.001015   | <0.001015  |
| 5/25/2022  |              | <0.001015   | <0.001015    | <0.001015    | <0.001015    |              |              |             |            |
| 10/31/2022 |              |             |              | <0.001015    | <0.001015    | <0.001015    | <0.001015    |             |            |
| 11/1/2022  |              | <0.001015   | <0.001015    |              |              |              |              | <0.001015   |            |
| 11/2/2022  | <0.001015    |             |              |              |              |              |              |             | <0.001015  |
| 4/3/2023   |              |             |              |              |              |              |              |             | <0.001015  |
| 4/4/2023   |              |             | <0.001015    | <0.001015    | <0.001015    |              |              | <0.001015   |            |
| 4/5/2023   |              | <0.001015   |              |              |              | <0.001015    |              |             |            |
| 4/24/2023  | <0.001015    |             |              |              |              |              | <0.001015    |             |            |

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-20H | BY-AP-MW-20V |
|------------|--------------|--------------|
| 3/2/2016   |              |              |
| 4/19/2016  |              |              |
| 6/8/2016   |              |              |
| 8/31/2016  |              |              |
| 10/19/2016 |              |              |
| 1/31/2017  |              |              |
| 5/2/2017   |              |              |
| 6/6/2017   |              |              |
| 1/23/2018  |              |              |
| 1/24/2018  |              |              |
| 5/1/2018   |              |              |
| 11/27/2018 |              |              |
| 1/8/2019   |              |              |
| 3/20/2019  |              |              |
| 5/29/2019  |              |              |
| 7/31/2019  | <0.001015    |              |
| 10/1/2019  | <0.001015    |              |
| 10/2/2019  |              |              |
| 3/30/2020  |              |              |
| 3/31/2020  |              |              |
| 4/1/2020   | <0.001015    |              |
| 8/31/2020  |              |              |
| 9/1/2020   | <0.001015    | <0.001015    |
| 9/2/2020   |              |              |
| 5/17/2021  |              |              |
| 5/18/2021  |              |              |
| 5/19/2021  | <0.001015    | <0.001015    |
| 5/25/2021  |              |              |
| 10/25/2021 |              |              |
| 10/26/2021 | <0.001015    |              |
| 11/1/2021  |              | <0.001015    |
| 5/23/2022  | <0.001015    |              |
| 5/24/2022  |              | <0.001015    |
| 5/25/2022  |              |              |
| 10/31/2022 | <0.001015    |              |
| 11/1/2022  |              | <0.001015    |
| 11/2/2022  |              |              |
| 4/3/2023   |              |              |
| 4/4/2023   |              |              |
| 4/5/2023   |              |              |
| 4/24/2023  | <0.001015    | <0.001015    |

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-22H | BY-AP-MW-23H | BY-AP-MW-23V | BY-AP-MW-24H | BY-AP-MW-25H | BY-AP-MW-3 | BY-AP-MW-4   | BY-AP-MW-5 | BY-AP-MW-5V |
|------------|--------------|--------------|--------------|--------------|--------------|------------|--------------|------------|-------------|
| 3/1/2016   |              |              |              |              |              |            | <0.00102     | <0.001015  |             |
| 3/2/2016   |              |              |              |              |              | <0.001015  |              |            |             |
| 4/19/2016  |              |              |              |              |              | <0.001015  | <0.00102     |            |             |
| 4/20/2016  |              |              |              |              |              |            |              | <0.001015  |             |
| 6/7/2016   |              |              |              |              |              | <0.001015  | <0.00102     | <0.001015  |             |
| 8/30/2016  |              |              |              |              |              |            | <0.00102     | <0.001015  |             |
| 8/31/2016  |              |              |              |              |              | <0.001015  |              |            |             |
| 10/18/2016 |              |              |              |              |              |            |              | <0.001015  |             |
| 10/19/2016 |              |              |              |              |              | <0.001015  | <0.00102     |            |             |
| 1/31/2017  |              |              |              |              |              | <0.001015  | <0.00102     | <0.001015  |             |
| 5/2/2017   |              |              |              |              |              | <0.001015  | <0.00102     |            |             |
| 5/3/2017   |              |              |              |              |              |            |              | <0.001015  |             |
| 6/6/2017   |              |              |              |              |              | <0.001015  | <0.00102     |            |             |
| 6/7/2017   |              |              |              |              |              |            |              | <0.001015  |             |
| 1/24/2018  |              |              |              |              |              | <0.001015  | <0.00102     | <0.001015  |             |
| 5/1/2018   |              |              |              |              |              | <0.001015  | <0.00102     |            |             |
| 5/2/2018   |              |              |              |              |              |            |              | <0.001015  |             |
| 11/27/2018 |              |              |              |              |              | <0.001015  | 0.00071 (J)  | <0.001015  |             |
| 11/28/2018 |              |              |              |              |              |            |              |            |             |
| 1/8/2019   |              |              |              | <0.001015    |              |            |              |            | <0.001015   |
| 5/29/2019  |              |              |              |              |              | <0.001015  | <0.00102     | <0.001015  |             |
| 7/31/2019  | <0.001015    | <0.001015    |              |              |              |            |              |            |             |
| 9/30/2019  |              |              |              |              |              |            |              |            |             |
| 10/1/2019  | <0.001015    | <0.001015    |              |              |              | <0.001015  | <0.00102     | <0.001015  |             |
| 10/2/2019  |              |              |              | <0.001015    |              |            |              |            | <0.001015   |
| 3/30/2020  |              |              |              |              |              |            |              |            |             |
| 3/31/2020  |              |              |              | <0.001015    |              | <0.001015  | <0.00102     | <0.001015  | <0.001015   |
| 4/1/2020   |              | <0.001015    |              |              |              |            |              |            |             |
| 9/1/2020   | <0.001015    | <0.001015    | <0.001015    |              |              | <0.001015  | <0.00102     | <0.001015  | <0.001015   |
| 9/2/2020   |              |              |              | <0.001015    | <0.001015    |            |              |            |             |
| 5/17/2021  |              |              | <0.001015    |              |              |            |              |            |             |
| 5/18/2021  |              |              |              |              |              | <0.001015  | <0.00102     |            |             |
| 5/24/2021  |              | <0.001015    |              |              | <0.001015    |            |              |            |             |
| 5/25/2021  | <0.001015    |              |              | <0.001015    |              |            |              |            |             |
| 10/26/2021 | <0.001015    | <0.001015    | <0.001015    | <0.001015    |              |            |              |            |             |
| 10/27/2021 |              |              |              |              |              |            |              |            |             |
| 11/1/2021  |              |              |              |              |              | <0.001015  | <0.00102     |            |             |
| 11/2/2021  |              |              |              |              | <0.001015    |            |              | <0.001015  | <0.001015   |
| 5/24/2022  | <0.001015    |              |              | <0.001015    |              |            |              |            |             |
| 5/25/2022  |              | <0.001015    | <0.001015    |              | <0.001015    | <0.001015  | 0.00065 (J)  | <0.001015  | <0.001015   |
| 10/31/2022 | <0.001015    |              |              |              | <0.001015    |            | 0.000451 (J) | <0.001015  | <0.001015   |
| 11/1/2022  |              | <0.001015    | <0.001015    |              |              | <0.001015  |              |            |             |
| 11/2/2022  |              |              |              | <0.001015    |              |            |              |            |             |
| 4/3/2023   |              |              |              | <0.001015    | <0.001015    |            |              |            |             |
| 4/4/2023   |              | <0.001015    | <0.001015    |              |              | <0.001015  | 0.000432 (J) | <0.001015  | <0.001015   |
| 4/24/2023  | <0.001015    |              |              |              |              |            |              |            |             |

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-6 | BY-AP-MW-7 |
|------------|------------|------------|
| 3/1/2016   | <0.001015  | <0.001015  |
| 3/2/2016   |            |            |
| 4/19/2016  | <0.001015  |            |
| 4/20/2016  |            | <0.001015  |
| 6/7/2016   | <0.001015  | <0.001015  |
| 8/30/2016  | <0.001015  |            |
| 8/31/2016  |            | <0.001015  |
| 10/18/2016 |            |            |
| 10/19/2016 | <0.001015  | <0.001015  |
| 1/31/2017  | <0.001015  | <0.001015  |
| 5/2/2017   |            |            |
| 5/3/2017   | <0.001015  | <0.001015  |
| 6/6/2017   |            |            |
| 6/7/2017   | <0.001015  | <0.001015  |
| 1/24/2018  | <0.001015  | <0.001015  |
| 5/1/2018   |            |            |
| 5/2/2018   | <0.001015  | <0.001015  |
| 11/27/2018 |            |            |
| 11/28/2018 | <0.001015  | <0.001015  |
| 1/8/2019   |            |            |
| 5/29/2019  | <0.001015  | <0.001015  |
| 7/31/2019  |            |            |
| 9/30/2019  |            | <0.001015  |
| 10/1/2019  | <0.001015  |            |
| 10/2/2019  |            |            |
| 3/30/2020  |            | <0.001015  |
| 3/31/2020  | <0.001015  |            |
| 4/1/2020   |            |            |
| 9/1/2020   |            |            |
| 9/2/2020   | <0.001015  | <0.001015  |
| 5/17/2021  | <0.001015  |            |
| 5/18/2021  |            | <0.001015  |
| 5/24/2021  |            |            |
| 5/25/2021  |            |            |
| 10/26/2021 |            |            |
| 10/27/2021 |            | <0.001015  |
| 11/1/2021  |            |            |
| 11/2/2021  | <0.001015  |            |
| 5/24/2022  |            | <0.001015  |
| 5/25/2022  | <0.001015  |            |
| 10/31/2022 | <0.001015  | <0.001015  |
| 11/1/2022  |            |            |
| 11/2/2022  |            |            |
| 4/3/2023   |            | <0.001015  |
| 4/4/2023   | <0.001015  |            |
| 4/24/2023  |            |            |



# Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-7V | BY-AP-MW-8 | BY-AP-MW-8V | BY-AP-MW-9 | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|------------|-------------|------------|-------------|------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 2/23/2016  |             |            |             |            | <0.001015       | <0.00102        | <0.001015       | <0.001015       |              |
| 3/1/2016   |             | <0.001015  |             | <0.001015  |                 |                 |                 |                 |              |
| 4/19/2016  |             |            |             |            | <0.001015       | <0.00102        | <0.001015       | <0.001015       |              |
| 4/20/2016  |             | <0.001015  |             | <0.001015  |                 |                 |                 |                 |              |
| 6/6/2016   |             |            |             |            | 0.000612 (J)    |                 |                 |                 | <0.001015    |
| 6/7/2016   |             | <0.001015  |             |            |                 | 0.00093 (J)     | <0.001015       |                 |              |
| 6/8/2016   |             |            |             | <0.001015  |                 |                 |                 |                 |              |
| 8/30/2016  |             | <0.001015  |             |            | <0.001015       | <0.00102        | <0.001015       | <0.001015       |              |
| 8/31/2016  |             |            |             | <0.001015  |                 |                 |                 |                 |              |
| 10/18/2016 |             | <0.001015  |             |            | <0.001015       | <0.00102        | <0.001015       | <0.001015       |              |
| 10/19/2016 |             |            |             | <0.001015  |                 |                 |                 |                 |              |
| 1/31/2017  |             | <0.001015  |             |            | <0.001015       | <0.00102        | <0.001015       | <0.001015       |              |
| 2/1/2017   |             |            |             | <0.001015  |                 |                 |                 |                 |              |
| 5/2/2017   |             |            |             |            | 0.00069 (J)     | <0.00102        | <0.001015       | <0.001015       |              |
| 5/3/2017   |             | <0.001015  |             | <0.001015  |                 |                 |                 |                 |              |
| 6/6/2017   |             |            |             |            | <0.001015       | <0.00102        | <0.001015       | <0.001015       |              |
| 6/7/2017   |             | <0.001015  |             | <0.001015  |                 |                 |                 |                 |              |
| 1/23/2018  |             |            |             | <0.001015  | <0.001015       | <0.00102        | <0.001015       | <0.001015       |              |
| 1/24/2018  |             | <0.001015  |             |            |                 |                 |                 |                 |              |
| 5/1/2018   |             |            |             |            |                 | <0.00102        | <0.001015       | <0.001015       |              |
| 5/2/2018   |             | <0.001015  |             | <0.001015  | <0.001015       |                 |                 |                 |              |
| 11/26/2018 |             |            |             |            |                 |                 |                 |                 | <0.001015    |
| 11/27/2018 |             | <0.001015  |             |            |                 |                 | <0.001015       |                 |              |
| 11/28/2018 |             |            |             | <0.001015  |                 |                 |                 |                 |              |
| 1/9/2019   | <0.001015   |            | <0.001015   |            |                 |                 |                 |                 |              |
| 5/28/2019  |             |            |             |            |                 |                 |                 |                 | <0.001015    |
| 5/29/2019  |             | <0.001015  |             |            | <0.001015       | <0.00102        | <0.001015       |                 |              |
| 5/30/2019  |             |            |             | <0.001015  |                 |                 |                 |                 |              |
| 9/30/2019  |             | <0.001015  |             | <0.001015  |                 |                 |                 |                 |              |
| 10/1/2019  | <0.001015   |            | <0.001015   |            |                 |                 |                 |                 |              |
| 10/2/2019  |             |            |             |            | <0.001015       | <0.00102        | <0.001015       | <0.001015       |              |
| 3/30/2020  | <0.001015   | <0.001015  | <0.001015   |            |                 |                 |                 |                 |              |
| 3/31/2020  |             |            |             | <0.001015  | <0.001015       | <0.00102        | <0.001015       | <0.001015       |              |
| 9/2/2020   | <0.001015   | <0.001015  | <0.001015   | <0.001015  |                 |                 |                 |                 | <0.001015    |
| 9/8/2020   |             |            |             |            |                 |                 |                 |                 | <0.001015    |
| 9/9/2020   |             |            |             |            | <0.001015       | <0.00102        | <0.001015       | <0.001015       |              |
| 5/11/2021  |             | <0.001015  |             |            |                 | <0.00102        | <0.001015       | <0.001015       |              |
| 5/12/2021  |             |            |             |            | 0.000694 (J)    |                 |                 |                 |              |
| 5/18/2021  | <0.001015   |            | <0.001015   | <0.001015  |                 |                 |                 |                 |              |
| 5/24/2021  |             |            |             |            |                 |                 |                 |                 | <0.001015    |
| 10/18/2021 |             |            |             |            |                 |                 | <0.001015       | <0.001015       |              |
| 10/19/2021 |             |            |             |            | <0.001015       | <0.00102        |                 |                 |              |
| 10/26/2021 |             | <0.001015  | <0.001015   |            |                 |                 |                 |                 |              |
| 10/27/2021 | <0.001015   |            |             | <0.001015  |                 |                 |                 |                 |              |
| 11/2/2021  |             |            |             |            |                 |                 |                 |                 | <0.001015    |
| 5/23/2022  |             |            | <0.001015   |            |                 |                 |                 |                 |              |
| 5/24/2022  | <0.001015   | <0.001015  |             | <0.001015  |                 |                 |                 |                 |              |
| 5/25/2022  |             |            |             |            |                 |                 |                 |                 | <0.001015    |
| 5/31/2022  |             |            |             |            | <0.001015       | 0.00041 (J)     | <0.001015       | <0.001015       |              |
| 10/31/2022 | <0.001015   |            | <0.001015   | <0.001015  |                 |                 |                 |                 |              |
| 11/1/2022  |             |            |             |            | <0.001015       | 0.000429 (J)    | <0.001015       | <0.001015       | <0.001015    |
| 11/2/2022  |             | <0.001015  |             |            |                 |                 |                 |                 |              |

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|           | BY-AP-MW-7V | BY-AP-MW-8 | BY-AP-MW-8V | BY-AP-MW-9 | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|-----------|-------------|------------|-------------|------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 4/3/2023  | <0.001015   | <0.001015  | <0.001015   |            |                 |                 |                 |                 | <0.001015    |
| 4/4/2023  |             |            |             | <0.001015  |                 |                 |                 |                 |              |
| 4/12/2023 |             |            |             |            | <0.001015       | 0.000416 (J)    | <0.001015       | <0.001015       |              |



# Time Series

Constituent: Boron, total (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-14V | BY-AP-MW-15 |
|------------|--------------|-------------|
| 3/1/2016   |              |             |
| 3/2/2016   |              | 0.0447 (J)  |
| 4/19/2016  |              | 0.0645 (J)  |
| 4/20/2016  |              |             |
| 6/8/2016   |              | 0.0592 (J)  |
| 8/30/2016  |              |             |
| 8/31/2016  |              | 0.0632 (J)  |
| 10/18/2016 |              |             |
| 10/19/2016 |              | 0.0637 (J)  |
| 1/31/2017  |              | 0.0536 (J)  |
| 2/1/2017   |              |             |
| 5/2/2017   |              | 0.0775 (J)  |
| 5/3/2017   |              |             |
| 6/6/2017   |              | 0.0535 (J)  |
| 6/7/2017   |              |             |
| 9/13/2017  |              | 0.0937 (J)  |
| 9/14/2017  |              |             |
| 5/1/2018   |              | 0.0683 (J)  |
| 5/2/2018   |              |             |
| 11/27/2018 |              | 0.0715 (J)  |
| 11/28/2018 |              |             |
| 1/8/2019   |              |             |
| 5/29/2019  |              | 0.116       |
| 5/30/2019  |              |             |
| 9/30/2019  |              |             |
| 10/1/2019  |              | 0.116       |
| 10/2/2019  |              |             |
| 3/30/2020  |              |             |
| 3/31/2020  |              |             |
| 4/1/2020   |              | 0.1         |
| 9/1/2020   |              |             |
| 9/2/2020   | 0.407        | 0.148       |
| 5/11/2021  |              | 0.109       |
| 5/18/2021  |              |             |
| 5/19/2021  |              |             |
| 5/25/2021  | 0.43         |             |
| 10/26/2021 | 0.393        | 0.0953 (J)  |
| 10/27/2021 |              |             |
| 11/1/2021  |              |             |
| 11/2/2021  |              |             |
| 5/23/2022  |              |             |
| 5/24/2022  | 0.376        |             |
| 5/25/2022  |              | 0.0826 (J)  |
| 11/1/2022  | 0.361        | 0.0712 (J)  |
| 11/2/2022  |              |             |
| 4/3/2023   |              | 0.0713 (J)  |
| 4/4/2023   | 0.39         |             |
| 4/5/2023   |              |             |

# Time Series

Constituent: Boron, total (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-15V | BY-AP-MW-16 | BY-AP-MW-16V | BY-AP-MW-17H | BY-AP-MW-17V | BY-AP-MW-18H | BY-AP-MW-19H | BY-AP-MW-1V | BY-AP-MW-2 |
|------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|-------------|------------|
| 3/2/2016   |              | 1.47        |              |              |              |              |              |             | <0.1015    |
| 4/19/2016  |              | 1.53        |              |              |              |              |              |             | <0.1015    |
| 6/8/2016   |              | 1.7         |              |              |              |              |              |             | <0.1015    |
| 8/31/2016  |              | 1.68        |              |              |              |              |              |             | <0.1015    |
| 10/19/2016 |              | 1.53        |              |              |              |              |              |             | <0.1015    |
| 1/31/2017  |              | 1.51        |              |              |              |              |              |             | <0.1015    |
| 5/2/2017   |              | 1.64        |              |              |              |              |              |             | <0.1015    |
| 6/6/2017   |              | 1.57        |              |              |              |              |              |             | <0.1015    |
| 9/12/2017  |              |             |              |              |              |              |              |             | <0.1015    |
| 9/13/2017  |              | 2.18        |              |              |              |              |              |             |            |
| 5/1/2018   |              | 1.57        |              |              |              |              |              |             | <0.1015    |
| 11/27/2018 |              | 1.58        |              |              |              |              |              |             | <0.1015    |
| 1/8/2019   |              |             |              |              |              |              |              | 0.0205 (J)  |            |
| 3/20/2019  |              |             |              |              |              | 0.924        |              |             |            |
| 5/29/2019  |              | 1.7         |              |              |              |              |              |             | <0.1015    |
| 7/31/2019  | 0.0439 (J)   |             |              | 0.0782 (J)   |              |              | 0.835        |             |            |
| 10/1/2019  | 0.0824 (J)   | 2.05        |              |              |              | 1.05         | 0.931        |             | <0.1015    |
| 10/2/2019  |              |             |              | 0.129        |              |              |              | <0.1015     |            |
| 3/30/2020  |              |             |              |              |              |              |              | 0.0347 (J)  |            |
| 3/31/2020  |              | 1.74        |              |              |              |              |              |             | <0.1015    |
| 4/1/2020   |              |             |              | 0.073 (J)    |              | 0.435        |              |             |            |
| 8/31/2020  |              |             |              |              |              |              |              |             | <0.1015    |
| 9/1/2020   | 0.0907 (J)   |             |              | 0.146        | 0.124        | 0.855        | 0.895        | 0.0368 (J)  |            |
| 9/2/2020   |              | 1.9         | <0.1015      |              |              |              |              |             |            |
| 5/17/2021  |              |             |              | 0.0911 (J)   |              |              |              |             |            |
| 5/18/2021  |              |             |              |              | 0.124        |              |              | 0.0334 (J)  | <0.1015    |
| 5/19/2021  |              | 1.74        | <0.1015      |              |              | 0.866        |              |             |            |
| 5/25/2021  | 0.0617 (J)   |             |              |              |              |              | 0.252        |             |            |
| 10/25/2021 |              |             |              | 0.0887 (J)   | 0.113        | 0.934        | 0.142        |             |            |
| 10/26/2021 | 0.0498 (J)   |             | <0.1015      |              |              |              |              |             |            |
| 11/1/2021  |              | 2.18        |              |              |              |              |              | <0.1015     | <0.1015    |
| 5/23/2022  |              |             |              |              |              | 0.91         |              |             |            |
| 5/24/2022  | 0.0376 (J)   |             |              |              |              |              | 0.159        | 0.0333 (J)  | <0.1015    |
| 5/25/2022  |              | 1.98        | <0.1015      | 0.0597 (J)   | 0.177        |              |              |             |            |
| 10/31/2022 |              |             |              | 0.064 (J)    | 0.198        | 1.65         | 0.63         |             |            |
| 11/1/2022  |              | 2.24        | <0.1015      |              |              |              |              | 0.0424 (J)  |            |
| 11/2/2022  | 0.033 (J)    |             |              |              |              |              |              |             | <0.1015    |
| 4/3/2023   |              |             |              |              |              |              |              |             | <0.1015    |
| 4/4/2023   |              |             | <0.1015      | 0.0474 (J)   | 0.285        |              |              | 0.0656 (J)  |            |
| 4/5/2023   |              | 2.29        |              |              |              | 0.0377 (J)   |              |             |            |
| 4/24/2023  | 0.0423 (J)   |             |              |              |              |              | 0.876        |             |            |

# Time Series

Constituent: Boron, total (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-20H | BY-AP-MW-20V |
|------------|--------------|--------------|
| 3/2/2016   |              |              |
| 4/19/2016  |              |              |
| 6/8/2016   |              |              |
| 8/31/2016  |              |              |
| 10/19/2016 |              |              |
| 1/31/2017  |              |              |
| 5/2/2017   |              |              |
| 6/6/2017   |              |              |
| 9/12/2017  |              |              |
| 9/13/2017  |              |              |
| 5/1/2018   |              |              |
| 11/27/2018 |              |              |
| 1/8/2019   |              |              |
| 3/20/2019  |              |              |
| 5/29/2019  |              |              |
| 7/31/2019  | 0.0707 (J)   |              |
| 10/1/2019  | 0.101        |              |
| 10/2/2019  |              |              |
| 3/30/2020  |              |              |
| 3/31/2020  |              |              |
| 4/1/2020   | 0.046 (J)    |              |
| 8/31/2020  |              |              |
| 9/1/2020   | 0.106        | 0.134        |
| 9/2/2020   |              |              |
| 5/17/2021  |              |              |
| 5/18/2021  |              |              |
| 5/19/2021  | 0.0909 (J)   | 0.119        |
| 5/25/2021  |              |              |
| 10/25/2021 |              |              |
| 10/26/2021 | 0.0784 (J)   |              |
| 11/1/2021  |              | 0.11         |
| 5/23/2022  | 0.0653 (J)   |              |
| 5/24/2022  |              | 0.0977 (J)   |
| 5/25/2022  |              |              |
| 10/31/2022 | 0.06 (J)     |              |
| 11/1/2022  |              | 0.0866 (J)   |
| 11/2/2022  |              |              |
| 4/3/2023   |              |              |
| 4/4/2023   |              |              |
| 4/5/2023   |              |              |
| 4/24/2023  | 0.0573 (J)   | <0.1015      |

# Time Series

Constituent: Boron, total (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-22H | BY-AP-MW-23H | BY-AP-MW-23V | BY-AP-MW-24H | BY-AP-MW-25H | BY-AP-MW-3 | BY-AP-MW-4 | BY-AP-MW-5 | BY-AP-MW-5V |
|------------|--------------|--------------|--------------|--------------|--------------|------------|------------|------------|-------------|
| 3/1/2016   |              |              |              |              |              |            | <0.1015    | 0.0462 (J) |             |
| 3/2/2016   |              |              |              |              |              | <0.1015    |            |            |             |
| 4/19/2016  |              |              |              |              |              | <0.1015    | <0.1015    |            |             |
| 4/20/2016  |              |              |              |              |              |            |            | 0.0719 (J) |             |
| 6/7/2016   |              |              |              |              |              | <0.1015    | <0.1015    | 0.0591 (J) |             |
| 8/30/2016  |              |              |              |              |              |            | <0.1015    | 0.0675 (J) |             |
| 8/31/2016  |              |              |              |              |              | <0.1015    |            |            |             |
| 10/18/2016 |              |              |              |              |              |            |            | 0.0699 (J) |             |
| 10/19/2016 |              |              |              |              |              | <0.1015    | <0.1015    |            |             |
| 1/31/2017  |              |              |              |              |              | <0.1015    | <0.1015    | 0.0518 (J) |             |
| 5/2/2017   |              |              |              |              |              | <0.1015    | <0.1015    |            |             |
| 5/3/2017   |              |              |              |              |              |            |            | 0.0737 (J) |             |
| 6/6/2017   |              |              |              |              |              | <0.1015    | <0.1015    |            |             |
| 6/7/2017   |              |              |              |              |              |            |            | 0.0518 (J) |             |
| 9/12/2017  |              |              |              |              |              | <0.1015    | <0.1015    |            |             |
| 9/14/2017  |              |              |              |              |              |            |            | 0.0825 (J) |             |
| 5/1/2018   |              |              |              |              |              | <0.1015    | <0.1015    |            |             |
| 5/2/2018   |              |              |              |              |              |            |            | 0.0603 (J) |             |
| 11/27/2018 |              |              |              |              |              | <0.1015    | <0.1015    | 0.0613 (J) |             |
| 11/28/2018 |              |              |              |              |              |            |            |            |             |
| 1/8/2019   |              |              |              | 0.213        |              |            |            |            | 0.029 (J)   |
| 5/29/2019  |              |              |              |              |              | <0.1015    | <0.1015    | 0.0946 (J) |             |
| 7/31/2019  | 0.0643 (J)   | 0.0531 (J)   |              |              |              |            |            |            |             |
| 9/30/2019  |              |              |              |              |              |            |            |            |             |
| 10/1/2019  | 0.105        | 0.0856 (J)   |              |              |              | <0.1015    | <0.1015    | 0.103      |             |
| 10/2/2019  |              |              |              | 0.344        |              |            |            |            | 0.0336 (J)  |
| 3/30/2020  |              |              |              |              |              |            |            |            |             |
| 3/31/2020  |              |              |              | 0.325        |              | <0.1015    | <0.1015    | 0.0782 (J) | 0.0339 (J)  |
| 4/1/2020   |              | <0.1         |              |              |              |            |            |            |             |
| 9/1/2020   | 0.115        | 0.0943 (J)   | 0.307        |              |              | <0.1015    | <0.1015    | 0.115      | 0.0414 (J)  |
| 9/2/2020   |              |              |              | 0.382        | <0.1015      |            |            |            |             |
| 5/17/2021  |              |              | 0.32         |              |              |            |            |            |             |
| 5/18/2021  |              |              |              |              |              | <0.1015    | <0.1015    |            |             |
| 5/24/2021  |              | 0.0785 (J)   |              |              | <0.1015      |            |            |            |             |
| 5/25/2021  | 0.0889 (J)   |              |              | 0.37         |              |            |            |            |             |
| 10/26/2021 | 0.0725 (J)   | 0.0709 (J)   | 0.306        | 0.354        |              |            |            |            |             |
| 10/27/2021 |              |              |              |              |              |            |            |            |             |
| 11/1/2021  |              |              |              |              |              | <0.1015    | <0.1015    |            |             |
| 11/2/2021  |              |              |              |              | <0.1015      |            |            | 0.0755 (J) | <0.1015     |
| 5/24/2022  | 0.0562 (J)   |              |              | 0.351        |              |            |            |            |             |
| 5/25/2022  |              | 0.0526 (J)   | 0.307        |              | <0.1015      | <0.1015    | <0.1015    | 0.063 (J)  | <0.1015     |
| 10/31/2022 | 0.0346 (J)   |              |              |              | <0.1015      |            | <0.1015    | 0.0515 (J) | 0.0652 (J)  |
| 11/1/2022  |              | 0.0382 (J)   | 0.345        |              |              | <0.1015    |            |            |             |
| 11/2/2022  |              |              |              | 0.337        |              |            |            |            |             |
| 4/3/2023   |              |              |              | 0.381        | <0.1015      |            |            |            |             |
| 4/4/2023   |              | 0.0481 (J)   | 0.245        |              |              | 0.0468 (J) | <0.1015    | 0.0381 (J) | 0.0924 (J)  |
| 4/24/2023  | 0.0696 (J)   |              |              |              |              |            |            |            |             |

# Time Series

Constituent: Boron, total (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-6 | BY-AP-MW-7 |
|------------|------------|------------|
| 3/1/2016   | <0.1015    | 0.0546 (J) |
| 3/2/2016   |            |            |
| 4/19/2016  | <0.1015    |            |
| 4/20/2016  |            | 0.0472 (J) |
| 6/7/2016   | <0.1015    | 0.0417 (J) |
| 8/30/2016  | <0.1015    |            |
| 8/31/2016  |            | 0.036 (J)  |
| 10/18/2016 |            |            |
| 10/19/2016 | <0.1015    | 0.0386 (J) |
| 1/31/2017  | <0.1015    | 0.0343 (J) |
| 5/2/2017   |            |            |
| 5/3/2017   | <0.1015    | 0.037 (J)  |
| 6/6/2017   |            |            |
| 6/7/2017   | <0.1015    | 0.0227 (J) |
| 9/12/2017  |            |            |
| 9/14/2017  | <0.1015    | 0.0471 (J) |
| 5/1/2018   |            |            |
| 5/2/2018   | <0.1015    | 0.0313 (J) |
| 11/27/2018 |            |            |
| 11/28/2018 | <0.1015    | 0.0311 (J) |
| 1/8/2019   |            |            |
| 5/29/2019  | <0.1015    | 0.042 (J)  |
| 7/31/2019  |            |            |
| 9/30/2019  |            | 0.0418 (J) |
| 10/1/2019  | <0.1015    |            |
| 10/2/2019  |            |            |
| 3/30/2020  |            | 0.0369 (J) |
| 3/31/2020  | <0.1015    |            |
| 4/1/2020   |            |            |
| 9/1/2020   |            |            |
| 9/2/2020   | <0.1015    | 0.042 (J)  |
| 5/17/2021  | <0.1015    |            |
| 5/18/2021  |            | 0.037 (J)  |
| 5/24/2021  |            |            |
| 5/25/2021  |            |            |
| 10/26/2021 |            |            |
| 10/27/2021 |            | 0.0427 (J) |
| 11/1/2021  |            |            |
| 11/2/2021  | <0.1015    |            |
| 5/24/2022  |            | 0.0369 (J) |
| 5/25/2022  | <0.1015    |            |
| 10/31/2022 | <0.1015    | 0.28       |
| 11/1/2022  |            |            |
| 11/2/2022  |            |            |
| 4/3/2023   |            | 0.174      |
| 4/4/2023   | <0.1015    |            |
| 4/24/2023  |            |            |



# Time Series

Constituent: Boron, total (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-7V | BY-AP-MW-8 | BY-AP-MW-8V | BY-AP-MW-9 | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|------------|-------------|------------|-------------|------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 2/23/2016  |             |            |             |            | 0.0212 (J)      | 0.0252 (J)      | <0.1015         | 0.0257 (J)      |              |
| 3/1/2016   |             | 1.72       |             | 1.79       |                 |                 |                 |                 |              |
| 4/19/2016  |             |            |             |            | <0.1            | <0.1015         | <0.1015         | <0.1015         |              |
| 4/20/2016  |             | 1.7        |             | 2.01       |                 |                 |                 |                 |              |
| 6/6/2016   |             |            |             |            | <0.1            |                 |                 | <0.1015         |              |
| 6/7/2016   |             | 1.57       |             |            |                 | 0.0202 (J)      | <0.1015         |                 |              |
| 6/8/2016   |             |            |             | 2.23       |                 |                 |                 |                 |              |
| 8/30/2016  |             | 1.67       |             |            | <0.1            | <0.1015         | <0.1015         | <0.1015         |              |
| 8/31/2016  |             |            |             | 2.14       |                 |                 |                 |                 |              |
| 10/18/2016 |             | 1.4        |             |            | <0.1            | <0.1015         | <0.1015         | 0.022 (J)       |              |
| 10/19/2016 |             |            |             | 2.13       |                 |                 |                 |                 |              |
| 1/31/2017  |             | 1.46       |             |            | <0.1            | <0.1015         | <0.1015         | <0.1015         |              |
| 2/1/2017   |             |            |             | 2.17       |                 |                 |                 |                 |              |
| 5/2/2017   |             |            |             |            | <0.1            | <0.1015         | <0.1015         | <0.1015         |              |
| 5/3/2017   |             | 1.45       |             | 2.28       |                 |                 |                 |                 |              |
| 6/6/2017   |             |            |             |            | <0.1            | <0.1015         | <0.1015         | <0.1015         |              |
| 6/7/2017   |             | 1.41       |             | 2.25       |                 |                 |                 |                 |              |
| 9/12/2017  |             |            |             |            |                 |                 |                 | <0.1015         |              |
| 9/13/2017  |             |            |             |            | <0.1            | <0.1015         | <0.1015         |                 |              |
| 9/14/2017  |             | 1.16       |             | 2.41       |                 |                 |                 |                 |              |
| 5/1/2018   |             |            |             |            |                 | <0.1015         | <0.1015         | <0.1015         |              |
| 5/2/2018   |             | 1.12       |             | 2.34       | 0.0362 (J)      |                 |                 |                 |              |
| 11/26/2018 |             |            |             |            |                 |                 |                 | <0.1015         |              |
| 11/27/2018 |             | 1.31       |             |            | 0.11            |                 | <0.1015         |                 |              |
| 11/28/2018 |             |            |             | 2.23       |                 |                 |                 |                 |              |
| 1/9/2019   | 0.0615 (J)  |            | 0.164       |            |                 |                 |                 |                 |              |
| 5/28/2019  |             |            |             |            |                 |                 |                 | <0.1015         |              |
| 5/29/2019  |             | 1.44       |             |            | 0.188           | <0.1015         | <0.1015         |                 |              |
| 5/30/2019  |             |            |             | 2.45       |                 |                 |                 |                 |              |
| 9/30/2019  |             | 1.38       |             | 2.34       |                 |                 |                 |                 |              |
| 10/1/2019  | 0.0546 (J)  |            | 0.241       |            |                 |                 |                 |                 |              |
| 10/2/2019  |             |            |             |            | 0.097 (J)       | <0.1015         | <0.1015         | <0.1015         |              |
| 3/30/2020  | 0.0555 (J)  | 1.12       | 0.247       |            |                 |                 |                 |                 |              |
| 3/31/2020  |             |            |             | 2.27       | 0.157           | <0.1015         | <0.1015         | <0.1015         |              |
| 9/2/2020   | 0.0565 (J)  | 1.26       | 0.26        | 2.05       |                 |                 |                 |                 | <0.1015      |
| 9/8/2020   |             |            |             |            |                 |                 |                 | <0.1015         |              |
| 9/9/2020   |             |            |             |            | 0.0999 (J)      | <0.1015         | <0.1015         | <0.1015         |              |
| 5/11/2021  |             | 0.971      |             |            |                 | <0.1015         | <0.1015         | <0.1015         |              |
| 5/12/2021  |             |            |             |            | 0.0841 (J)      |                 |                 |                 |              |
| 5/18/2021  | 0.0599 (J)  |            | 0.247       | 2.08       |                 |                 |                 |                 |              |
| 5/24/2021  |             |            |             |            |                 |                 |                 |                 | <0.1015      |
| 10/18/2021 |             |            |             |            |                 |                 | <0.1015         | <0.1015         |              |
| 10/19/2021 |             |            |             |            | 0.0708 (J)      | <0.1015         |                 |                 |              |
| 10/26/2021 |             | 0.933      | 0.216       |            |                 |                 |                 |                 |              |
| 10/27/2021 | 0.0546 (J)  |            |             | 2.04       |                 |                 |                 |                 |              |
| 11/2/2021  |             |            |             |            |                 |                 |                 |                 | <0.1015      |
| 5/23/2022  |             |            | 0.259       |            |                 |                 |                 |                 |              |
| 5/24/2022  | 0.165       | 1.12       |             | 2.01       |                 |                 |                 |                 |              |
| 5/25/2022  |             |            |             |            |                 |                 |                 |                 | <0.1015      |
| 5/31/2022  |             |            |             |            | 0.0567 (J)      | <0.1015         | <0.1015         | <0.1015         |              |
| 10/31/2022 | 0.329       |            | 0.186       | 2.3        |                 |                 |                 |                 |              |
| 11/1/2022  |             |            |             |            | 0.0501 (J)      | <0.1015         | <0.1015         | <0.1015         | <0.1015      |

# Time Series

Constituent: Boron, total (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

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|           | BY-AP-MW-7V | BY-AP-MW-8 | BY-AP-MW-8V | BY-AP-MW-9 | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|-----------|-------------|------------|-------------|------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 11/2/2022 |             | 1.59       |             |            |                 |                 |                 |                 |              |
| 4/3/2023  | 0.293       | 0.129      | 0.245       |            |                 |                 |                 |                 | <0.1015      |
| 4/4/2023  |             |            |             | 1.65       |                 |                 |                 |                 |              |
| 4/12/2023 |             |            |             |            | 0.0464 (J)      | <0.1015         | <0.1015         | <0.1015         |              |

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

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-13V | BY-AP-MW-14 |
|------------|------------|-------------|--------------|-------------|-------------|--------------|-------------|--------------|-------------|
| 3/1/2016   |            | <0.000203   |              | <0.000203   |             |              |             |              |             |
| 3/2/2016   | <0.000203  |             |              |             | <0.000203   |              | <0.000203   |              | <0.000203   |
| 4/19/2016  | <0.000203  |             |              |             |             |              |             |              |             |
| 4/20/2016  |            | <0.000203   |              | <0.000203   | <0.000203   |              | <0.000203   |              | <0.000203   |
| 6/8/2016   | <0.000203  | <0.000203   |              | <0.000203   | <0.000203   |              | <0.000203   |              | <0.000203   |
| 8/30/2016  |            |             |              |             |             |              |             |              | <0.000203   |
| 8/31/2016  | <0.000203  | <0.000203   |              | <0.000203   | <0.000203   |              | <0.000203   |              |             |
| 10/18/2016 |            |             |              |             |             |              |             |              | <0.000203   |
| 10/19/2016 | <0.000203  | <0.000203   |              | <0.000203   | <0.000203   |              | <0.000203   |              |             |
| 1/31/2017  | <0.000203  |             |              |             |             |              | <0.000203   |              | <0.000203   |
| 2/1/2017   |            | <0.000203   |              | <0.000203   | <0.000203   |              |             |              |             |
| 5/2/2017   | <0.000203  |             |              |             |             |              |             |              | <0.000203   |
| 5/3/2017   |            | <0.000203   |              | <0.000203   | <0.000203   |              | <0.000203   |              |             |
| 6/6/2017   | <0.000203  |             |              |             |             |              |             |              | <0.000203   |
| 6/7/2017   |            | <0.000203   |              | <0.000203   | <0.000203   |              | 0.00077 (J) |              |             |
| 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   |              |             |
| 1/8/2019   |            |             | <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   |              | <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    | <0.000203   |              | <0.000203   |
| 4/1/2020   |            |             |              |             |             |              |             |              |             |
| 9/1/2020   | <0.000203  | <0.000203   | <0.000203    | <0.000203   | <0.000203   | <0.000203    | <0.000203   |              |             |
| 9/2/2020   |            |             |              |             |             |              |             | <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   |             |              | <0.000203   | <0.000203    |             |
| 5/25/2021  |            |             |              |             |             |              |             |              | <0.000203   |
| 10/26/2021 |            |             |              |             |             |              | <0.000203   | <0.000203    |             |
| 10/27/2021 |            | <0.000203   | <0.000203    |             |             |              |             |              | <0.000203   |
| 11/1/2021  | <0.000203  |             |              |             | <0.000203   | <0.000203    |             |              |             |
| 11/2/2021  |            |             |              | <0.000203   |             |              |             |              |             |
| 5/23/2022  |            |             |              | <0.000203   | <0.000203   | <0.000203    |             |              |             |
| 5/24/2022  | <0.000203  | <0.000203   | <0.000203    |             |             |              | <0.000203   |              |             |
| 5/25/2022  |            |             |              |             |             |              |             | <0.000203    | <0.000203   |
| 11/1/2022  |            |             | <0.000203    | <0.000203   | <0.000203   | <0.000203    | <0.000203   | <0.000203    | <0.000203   |
| 11/2/2022  | <0.000203  | <0.000203   |              |             |             |              |             |              |             |
| 4/3/2023   | <0.000203  | <0.000203   | <0.000203    |             |             |              |             |              |             |
| 4/4/2023   |            |             |              | <0.000203   | <0.000203   | <0.000203    | <0.000203   | <0.000203    |             |
| 4/5/2023   |            |             |              |             |             |              |             |              | <0.000203   |

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-14V | BY-AP-MW-15 |
|------------|--------------|-------------|
| 3/1/2016   |              |             |
| 3/2/2016   |              | <0.000203   |
| 4/19/2016  |              | <0.000203   |
| 4/20/2016  |              |             |
| 6/8/2016   |              | <0.000203   |
| 8/30/2016  |              |             |
| 8/31/2016  |              | <0.000203   |
| 10/18/2016 |              |             |
| 10/19/2016 |              | <0.000203   |
| 1/31/2017  |              | <0.000203   |
| 2/1/2017   |              |             |
| 5/2/2017   |              | <0.000203   |
| 5/3/2017   |              |             |
| 6/6/2017   |              | <0.000203   |
| 6/7/2017   |              |             |
| 1/22/2018  |              | <0.000203   |
| 1/23/2018  |              |             |
| 1/24/2018  |              |             |
| 5/1/2018   |              | <0.000203   |
| 5/2/2018   |              |             |
| 11/27/2018 |              | <0.000203   |
| 11/28/2018 |              |             |
| 1/8/2019   |              |             |
| 5/29/2019  |              | <0.000203   |
| 5/30/2019  |              |             |
| 9/30/2019  |              |             |
| 10/1/2019  |              | <0.000203   |
| 10/2/2019  |              |             |
| 3/30/2020  |              |             |
| 3/31/2020  |              |             |
| 4/1/2020   |              | <0.000203   |
| 9/1/2020   |              |             |
| 9/2/2020   | <0.000203    | <0.000203   |
| 5/11/2021  |              | <0.000203   |
| 5/18/2021  |              |             |
| 5/19/2021  |              |             |
| 5/25/2021  | <0.000203    |             |
| 10/26/2021 | <0.000203    | <0.000203   |
| 10/27/2021 |              |             |
| 11/1/2021  |              |             |
| 11/2/2021  |              |             |
| 5/23/2022  |              |             |
| 5/24/2022  | <0.000203    |             |
| 5/25/2022  |              | <0.000203   |
| 11/1/2022  | <0.000203    | <0.000203   |
| 11/2/2022  |              |             |
| 4/3/2023   |              | <0.000203   |
| 4/4/2023   | <0.000203    |             |
| 4/5/2023   |              |             |

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-15V | BY-AP-MW-16 | BY-AP-MW-16V | BY-AP-MW-17H | BY-AP-MW-17V | BY-AP-MW-18H | BY-AP-MW-19H | BY-AP-MW-1V | BY-AP-MW-2 |
|------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|-------------|------------|
| 3/2/2016   |              | <0.000203   |              |              |              |              |              |             | <0.000203  |
| 4/19/2016  |              | <0.000203   |              |              |              |              |              |             | <0.000203  |
| 6/8/2016   |              | <0.000203   |              |              |              |              |              |             | <0.000203  |
| 8/31/2016  |              | <0.000203   |              |              |              |              |              |             | <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  |
| 1/23/2018  |              | <0.000203   |              |              |              |              |              |             | <0.000203  |
| 1/24/2018  |              |             |              |              |              |              |              |             | <0.000203  |
| 5/1/2018   |              | <0.000203   |              |              |              |              |              |             | <0.000203  |
| 11/27/2018 |              | <0.000203   |              |              |              |              |              |             | <0.000203  |
| 1/8/2019   |              |             |              |              |              |              |              | <0.000203   |            |
| 3/20/2019  |              |             |              |              |              | <0.000203    |              |             |            |
| 5/29/2019  |              | <0.000203   |              |              |              |              |              |             | <0.000203  |
| 7/31/2019  | <0.0002      |             |              | <0.000203    |              |              | <0.000203    |             |            |
| 10/1/2019  | <0.0002      | <0.000203   |              |              |              | <0.000203    | <0.000203    |             | <0.000203  |
| 10/2/2019  |              |             |              | <0.000203    |              |              |              | <0.000203   |            |
| 3/30/2020  |              |             |              |              |              |              |              | <0.000203   |            |
| 3/31/2020  |              | <0.000203   |              |              |              |              |              |             | <0.000203  |
| 4/1/2020   |              |             |              | <0.000203    |              | <0.000203    |              |             |            |
| 8/31/2020  |              |             |              |              |              |              |              |             | <0.000203  |
| 9/1/2020   | <0.0002      |             |              | <0.000203    | <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    |              |              | <0.000203   | <0.000203  |
| 5/19/2021  |              | <0.000203   | <0.000203    |              |              | <0.000203    |              |             |            |
| 5/25/2021  | <0.0002      |             |              |              |              |              | <0.000203    |             |            |
| 10/25/2021 |              |             |              | <0.000203    | <0.000203    | <0.000203    | <0.000203    |             |            |
| 10/26/2021 | <0.0002      |             | <0.000203    |              |              |              |              |             |            |
| 11/1/2021  |              | <0.000203   |              |              |              |              |              | <0.000203   | <0.000203  |
| 5/23/2022  |              |             |              |              |              | <0.000203    |              |             |            |
| 5/24/2022  | 0.00018 (J)  |             |              |              |              |              | <0.000203    | <0.000203   | <0.000203  |
| 5/25/2022  |              | <0.000203   | <0.000203    | <0.000203    | <0.000203    |              |              |             |            |
| 10/31/2022 |              |             |              | <0.000203    | <0.000203    | <0.000203    | <0.000203    |             |            |
| 11/1/2022  |              | <0.000203   | 7E-05 (J)    |              |              |              |              | 7.1E-05 (J) |            |
| 11/2/2022  | 0.0001 (J)   |             |              |              |              |              |              |             | <0.000203  |
| 4/3/2023   |              |             |              |              |              |              |              |             | <0.000203  |
| 4/4/2023   |              |             | <0.000203    | <0.000203    | 0.000114 (J) |              |              | <0.000203   |            |
| 4/5/2023   |              | <0.000203   |              |              |              | <0.000203    |              |             |            |
| 4/24/2023  | 0.000212     |             |              |              |              |              | <0.000203    |             |            |

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-20H | BY-AP-MW-20V |
|------------|--------------|--------------|
| 3/2/2016   |              |              |
| 4/19/2016  |              |              |
| 6/8/2016   |              |              |
| 8/31/2016  |              |              |
| 10/19/2016 |              |              |
| 1/31/2017  |              |              |
| 5/2/2017   |              |              |
| 6/6/2017   |              |              |
| 1/23/2018  |              |              |
| 1/24/2018  |              |              |
| 5/1/2018   |              |              |
| 11/27/2018 |              |              |
| 1/8/2019   |              |              |
| 3/20/2019  |              |              |
| 5/29/2019  |              |              |
| 7/31/2019  | <0.000203    |              |
| 10/1/2019  | <0.000203    |              |
| 10/2/2019  |              |              |
| 3/30/2020  |              |              |
| 3/31/2020  |              |              |
| 4/1/2020   | <0.000203    |              |
| 8/31/2020  |              |              |
| 9/1/2020   | <0.000203    | <0.000203    |
| 9/2/2020   |              |              |
| 5/17/2021  |              |              |
| 5/18/2021  |              |              |
| 5/19/2021  | <0.000203    | <0.000203    |
| 5/25/2021  |              |              |
| 10/25/2021 |              |              |
| 10/26/2021 | <0.000203    |              |
| 11/1/2021  |              | <0.000203    |
| 5/23/2022  | <0.000203    |              |
| 5/24/2022  |              | <0.000203    |
| 5/25/2022  |              |              |
| 10/31/2022 | <0.000203    |              |
| 11/1/2022  |              | <0.000203    |
| 11/2/2022  |              |              |
| 4/3/2023   |              |              |
| 4/4/2023   |              |              |
| 4/5/2023   |              |              |
| 4/24/2023  | <0.000203    | <0.000203    |

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-22H | BY-AP-MW-23H | BY-AP-MW-23V | BY-AP-MW-24H | BY-AP-MW-25H | BY-AP-MW-3 | BY-AP-MW-4   | BY-AP-MW-5 | BY-AP-MW-5V |
|------------|--------------|--------------|--------------|--------------|--------------|------------|--------------|------------|-------------|
| 3/1/2016   |              |              |              |              |              |            | <0.0002      | <0.000203  |             |
| 3/2/2016   |              |              |              |              |              | <0.000203  |              |            |             |
| 4/19/2016  |              |              |              |              |              | <0.000203  | <0.0002      |            |             |
| 4/20/2016  |              |              |              |              |              |            |              | <0.000203  |             |
| 6/7/2016   |              |              |              |              |              | <0.000203  | <0.0002      | <0.000203  |             |
| 8/30/2016  |              |              |              |              |              |            | <0.0002      | <0.000203  |             |
| 8/31/2016  |              |              |              |              |              | <0.000203  |              |            |             |
| 10/18/2016 |              |              |              |              |              |            |              | <0.000203  |             |
| 10/19/2016 |              |              |              |              |              | <0.000203  | <0.0002      |            |             |
| 1/31/2017  |              |              |              |              |              | <0.000203  | <0.0002      | <0.000203  |             |
| 5/2/2017   |              |              |              |              |              | <0.000203  | <0.0002      |            |             |
| 5/3/2017   |              |              |              |              |              |            |              | <0.000203  |             |
| 6/6/2017   |              |              |              |              |              | <0.000203  | <0.0002      |            |             |
| 6/7/2017   |              |              |              |              |              |            |              | <0.000203  |             |
| 1/24/2018  |              |              |              |              |              | <0.000203  | <0.0002      | <0.000203  |             |
| 5/1/2018   |              |              |              |              |              | <0.000203  | <0.0002      |            |             |
| 5/2/2018   |              |              |              |              |              |            |              | <0.000203  |             |
| 11/27/2018 |              |              |              |              |              | <0.000203  | <0.0002      | <0.000203  |             |
| 11/28/2018 |              |              |              |              |              |            |              |            |             |
| 1/8/2019   |              |              |              | <0.000203    |              |            |              |            | <0.000203   |
| 5/29/2019  |              |              |              |              |              | <0.000203  | <0.0002      | <0.000203  |             |
| 7/31/2019  | <0.000203    | <0.000203    |              |              |              |            |              |            |             |
| 9/30/2019  |              |              |              |              |              |            |              |            |             |
| 10/1/2019  | <0.000203    | <0.000203    |              |              |              | <0.000203  | <0.0002      | <0.000203  |             |
| 10/2/2019  |              |              |              | <0.000203    |              |            |              |            | <0.000203   |
| 3/30/2020  |              |              |              |              |              |            |              |            |             |
| 3/31/2020  |              |              |              | <0.000203    |              | <0.000203  | <0.0002      | <0.000203  | <0.000203   |
| 4/1/2020   |              | <0.000203    |              |              |              |            |              |            |             |
| 9/1/2020   | <0.000203    | <0.000203    | <0.000203    |              |              | <0.000203  | <0.0002      | <0.000203  | <0.000203   |
| 9/2/2020   |              |              |              | <0.000203    | <0.000203    |            |              |            |             |
| 5/17/2021  |              |              | <0.000203    |              |              |            |              |            |             |
| 5/18/2021  |              |              |              |              |              | <0.000203  | <0.0002      |            |             |
| 5/24/2021  |              | <0.000203    |              |              | <0.000203    |            |              |            |             |
| 5/25/2021  | <0.000203    |              |              | <0.000203    |              |            |              |            |             |
| 10/26/2021 | <0.000203    | <0.000203    | <0.000203    | <0.000203    |              |            |              |            |             |
| 10/27/2021 |              |              |              |              |              |            |              |            |             |
| 11/1/2021  |              |              |              |              |              | <0.000203  | <0.0002      |            |             |
| 11/2/2021  |              |              |              |              | <0.000203    |            |              | <0.000203  | <0.000203   |
| 5/24/2022  | <0.000203    |              |              | <0.000203    |              |            |              |            |             |
| 5/25/2022  |              | <0.000203    | <0.000203    |              | <0.000203    | <0.000203  | <0.0002      | <0.000203  | <0.000203   |
| 10/31/2022 | <0.000203    |              |              |              | <0.000203    |            | 0.000102 (J) | <0.000203  | <0.000203   |
| 11/1/2022  |              | <0.000203    | <0.000203    |              |              | <0.000203  |              |            |             |
| 11/2/2022  |              |              |              | <0.000203    |              |            |              |            |             |
| 4/3/2023   |              |              |              | <0.000203    | <0.000203    |            |              |            |             |
| 4/4/2023   |              | <0.000203    | <0.000203    |              |              | <0.000203  | 9E-05 (J)    | <0.000203  | <0.000203   |
| 4/24/2023  | <0.000203    |              |              |              |              |            |              |            |             |

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-6  | BY-AP-MW-7 |
|------------|-------------|------------|
| 3/1/2016   | <0.000203   | <0.000203  |
| 3/2/2016   |             |            |
| 4/19/2016  | <0.000203   |            |
| 4/20/2016  |             | <0.000203  |
| 6/7/2016   | <0.000203   | <0.000203  |
| 8/30/2016  | <0.000203   |            |
| 8/31/2016  |             | <0.000203  |
| 10/18/2016 |             |            |
| 10/19/2016 | <0.000203   | <0.000203  |
| 1/31/2017  | <0.000203   | <0.000203  |
| 5/2/2017   |             |            |
| 5/3/2017   | <0.000203   | <0.000203  |
| 6/6/2017   |             |            |
| 6/7/2017   | <0.000203   | <0.000203  |
| 1/24/2018  | <0.000203   | <0.000203  |
| 5/1/2018   |             |            |
| 5/2/2018   | <0.000203   | <0.000203  |
| 11/27/2018 |             |            |
| 11/28/2018 | <0.000203   | <0.000203  |
| 1/8/2019   |             |            |
| 5/29/2019  | <0.000203   | <0.000203  |
| 7/31/2019  |             |            |
| 9/30/2019  |             | <0.000203  |
| 10/1/2019  | <0.000203   |            |
| 10/2/2019  |             |            |
| 3/30/2020  |             | <0.000203  |
| 3/31/2020  | <0.000203   |            |
| 4/1/2020   |             |            |
| 9/1/2020   |             |            |
| 9/2/2020   | <0.000203   | <0.000203  |
| 5/17/2021  | <0.000203   |            |
| 5/18/2021  |             | <0.000203  |
| 5/24/2021  |             |            |
| 5/25/2021  |             |            |
| 10/26/2021 |             |            |
| 10/27/2021 |             | <0.000203  |
| 11/1/2021  |             |            |
| 11/2/2021  | 7E-05 (J)   |            |
| 5/24/2022  |             | <0.000203  |
| 5/25/2022  | 0.00031     |            |
| 10/31/2022 | 6.8E-05 (J) | <0.000203  |
| 11/1/2022  |             |            |
| 11/2/2022  |             |            |
| 4/3/2023   |             | <0.000203  |
| 4/4/2023   | <0.000203   |            |
| 4/24/2023  |             |            |



# Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-7V | BY-AP-MW-8 | BY-AP-MW-8V | BY-AP-MW-9 | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|------------|-------------|------------|-------------|------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 2/23/2016  |             |            |             |            | <0.000203       | <0.000203       | <0.000203       | <0.000203       |              |
| 3/1/2016   |             | <0.000203  |             | <0.000203  |                 |                 |                 |                 |              |
| 4/19/2016  |             |            |             |            | <0.000203       | <0.000203       | <0.000203       | <0.000203       |              |
| 4/20/2016  |             | <0.000203  |             | <0.000203  |                 |                 |                 |                 |              |
| 6/6/2016   |             |            |             |            | <0.000203       |                 |                 |                 | <0.000203    |
| 6/7/2016   |             | <0.000203  |             |            |                 | <0.000203       | <0.000203       |                 |              |
| 6/8/2016   |             |            |             | <0.000203  |                 |                 |                 |                 |              |
| 8/30/2016  |             | <0.000203  |             |            | <0.000203       | <0.000203       | <0.000203       | <0.000203       |              |
| 8/31/2016  |             |            |             | <0.000203  |                 |                 |                 |                 |              |
| 10/18/2016 |             | <0.000203  |             |            | <0.000203       | <0.000203       | <0.000203       | <0.000203       |              |
| 10/19/2016 |             |            |             | <0.000203  |                 |                 |                 |                 |              |
| 1/31/2017  |             | <0.000203  |             |            | <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  |             | <0.000203  |                 |                 |                 |                 |              |
| 6/6/2017   |             |            |             |            | <0.000203       | <0.000203       | <0.000203       | <0.000203       |              |
| 6/7/2017   |             | <0.000203  |             | <0.000203  |                 |                 |                 |                 |              |
| 1/23/2018  |             |            |             | <0.000203  | <0.000203       | <0.000203       | <0.000203       | <0.000203       |              |
| 1/24/2018  |             | <0.000203  |             |            |                 |                 |                 |                 |              |
| 5/1/2018   |             |            |             |            |                 | <0.000203       | <0.000203       | <0.000203       |              |
| 5/2/2018   |             | <0.000203  |             | <0.000203  | <0.000203       |                 |                 |                 |              |
| 11/26/2018 |             |            |             |            |                 |                 |                 |                 | <0.000203    |
| 11/27/2018 |             | <0.000203  |             |            | <0.000203       | <0.000203       | <0.000203       |                 |              |
| 11/28/2018 |             |            |             | <0.000203  |                 |                 |                 |                 |              |
| 1/9/2019   | <0.000203   |            | <0.000203   |            |                 |                 |                 |                 |              |
| 5/28/2019  |             |            |             |            |                 |                 |                 |                 | <0.000203    |
| 5/29/2019  |             | <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   |            |                 |                 |                 |                 |              |
| 10/2/2019  |             |            |             |            | <0.000203       | <0.000203       | <0.000203       | <0.000203       |              |
| 3/30/2020  | <0.000203   | <0.000203  | <0.000203   |            |                 |                 |                 |                 |              |
| 3/31/2020  |             |            |             | <0.000203  | <0.000203       | <0.000203       | <0.000203       | <0.000203       |              |
| 9/2/2020   | <0.000203   | <0.000203  | <0.000203   | <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       | <0.000203       |              |
| 5/12/2021  |             |            |             |            | <0.000203       |                 |                 |                 |              |
| 5/18/2021  | <0.000203   |            | <0.000203   | <0.000203  |                 |                 |                 |                 |              |
| 5/24/2021  |             |            |             |            |                 |                 |                 |                 | <0.000203    |
| 10/18/2021 |             |            |             |            |                 |                 | 7E-05 (J)       | <0.000203       |              |
| 10/19/2021 |             |            |             |            | <0.000203       | <0.000203       |                 |                 |              |
| 10/26/2021 |             | <0.000203  | <0.000203   |            |                 |                 |                 |                 |              |
| 10/27/2021 | <0.000203   |            |             | <0.000203  |                 |                 |                 |                 |              |
| 11/2/2021  |             |            |             |            |                 |                 |                 |                 | <0.000203    |
| 5/23/2022  |             |            | <0.000203   |            |                 |                 |                 |                 |              |
| 5/24/2022  | <0.000203   | <0.000203  |             | <0.000203  |                 |                 |                 |                 |              |
| 5/25/2022  |             |            |             |            |                 |                 |                 |                 | <0.000203    |
| 5/31/2022  |             |            |             |            | <0.000203       | <0.000203       | <0.000203       | <0.000203       |              |
| 10/31/2022 | <0.000203   |            | <0.000203   | <0.000203  |                 |                 |                 |                 |              |
| 11/1/2022  |             |            |             |            | <0.000203       | <0.000203       | <0.000203       | <0.000203       | <0.000203    |
| 11/2/2022  |             | <0.000203  |             |            |                 |                 |                 |                 |              |

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|           | BY-AP-MW-7V | BY-AP-MW-8 | BY-AP-MW-8V | BY-AP-MW-9 | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|-----------|-------------|------------|-------------|------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 4/3/2023  | <0.000203   | <0.000203  | <0.000203   |            |                 |                 |                 |                 | <0.000203    |
| 4/4/2023  |             |            |             | <0.000203  |                 |                 |                 |                 |              |
| 4/12/2023 |             |            |             |            | <0.000203       | <0.000203       | <0.000203       | <0.000203       |              |



# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-14V | BY-AP-MW-15 |
|------------|--------------|-------------|
| 3/1/2016   |              |             |
| 3/2/2016   |              | 6.61        |
| 4/19/2016  |              | 5.97        |
| 4/20/2016  |              |             |
| 6/8/2016   |              | 6.36        |
| 8/30/2016  |              |             |
| 8/31/2016  |              | 6.28        |
| 10/18/2016 |              |             |
| 10/19/2016 |              | 6.57        |
| 1/31/2017  |              | 6.77        |
| 2/1/2017   |              |             |
| 5/2/2017   |              | 6.94        |
| 5/3/2017   |              |             |
| 6/6/2017   |              | 6.88        |
| 6/7/2017   |              |             |
| 9/13/2017  |              | 7.43        |
| 9/14/2017  |              |             |
| 5/1/2018   |              | 7.42        |
| 5/2/2018   |              |             |
| 8/28/2018  |              |             |
| 8/29/2018  |              | 7.37        |
| 11/27/2018 |              | 7.58        |
| 11/28/2018 |              |             |
| 1/8/2019   |              |             |
| 5/29/2019  |              | 7.22        |
| 5/30/2019  |              |             |
| 9/30/2019  |              |             |
| 10/1/2019  |              | 6.9         |
| 10/2/2019  |              |             |
| 3/30/2020  |              |             |
| 3/31/2020  |              |             |
| 4/1/2020   |              | 7.32        |
| 9/1/2020   |              |             |
| 9/2/2020   | 4.7          | 7.04        |
| 5/11/2021  |              | 6.98        |
| 5/18/2021  |              |             |
| 5/19/2021  |              |             |
| 5/25/2021  | 4.66         |             |
| 10/26/2021 | 5.28         | 6.46        |
| 10/27/2021 |              |             |
| 11/1/2021  |              |             |
| 11/2/2021  |              |             |
| 5/23/2022  |              |             |
| 5/24/2022  | 7.03         |             |
| 5/25/2022  |              | 6.41        |
| 11/1/2022  | 5.52         | 6.57        |
| 11/2/2022  |              |             |
| 4/3/2023   |              | 6.76        |
| 4/4/2023   | 5.34         |             |
| 4/5/2023   |              |             |

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-15V | BY-AP-MW-16 | BY-AP-MW-16V | BY-AP-MW-17H | BY-AP-MW-17V | BY-AP-MW-18H | BY-AP-MW-19H | BY-AP-MW-1V | BY-AP-MW-2 |
|------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|-------------|------------|
| 3/2/2016   |              | 14.6        |              |              |              |              |              |             | 3.86       |
| 4/19/2016  |              | 13.3        |              |              |              |              |              |             | 3.22       |
| 6/8/2016   |              | 13.2        |              |              |              |              |              |             | 3.17       |
| 8/31/2016  |              | 11.8        |              |              |              |              |              |             | 3.07       |
| 10/19/2016 |              | 12.9        |              |              |              |              |              |             | 2.91       |
| 1/31/2017  |              | 13.5        |              |              |              |              |              |             | 2.94       |
| 5/2/2017   |              | 13.5        |              |              |              |              |              |             | 2.82       |
| 6/6/2017   |              | 13.6        |              |              |              |              |              |             | 2.79       |
| 9/12/2017  |              |             |              |              |              |              |              |             | 2.88       |
| 9/13/2017  |              | 11.8        |              |              |              |              |              |             |            |
| 5/1/2018   |              | 14          |              |              |              |              |              |             | 2.82       |
| 8/28/2018  |              |             |              |              |              |              |              |             | 2.85       |
| 8/29/2018  |              | 12.1        |              |              |              |              |              |             |            |
| 11/27/2018 |              | 13.3        |              |              |              |              |              |             | 2.8        |
| 1/8/2019   |              |             |              |              |              |              |              | 15.7        |            |
| 3/20/2019  |              |             |              |              |              | 28.4         |              |             |            |
| 5/29/2019  |              | 13.4        |              |              |              |              |              |             | 2.82       |
| 7/31/2019  | 9.32         |             |              | 19.1         |              |              | 31.4         |             |            |
| 10/1/2019  | 8.41         | 11.7        |              |              |              | 27.2         | 31.1         |             | 2.94       |
| 10/2/2019  |              |             |              | 13.2         |              |              |              | 3.16        |            |
| 3/30/2020  |              |             |              |              |              |              |              | 3.23        |            |
| 3/31/2020  |              | 14.2        |              |              |              |              |              |             | 2.95       |
| 4/1/2020   |              |             |              | 27           |              | 23.1         |              |             |            |
| 8/31/2020  |              |             |              |              |              |              |              |             | 3          |
| 9/1/2020   | 6.9          |             |              | 10.8         | 20.5         | 25.6         | 31.6         | 3.43        |            |
| 9/2/2020   |              | 13.1        | 2.02         |              |              |              |              |             |            |
| 5/17/2021  |              |             |              | 12.8         |              |              |              |             |            |
| 5/18/2021  |              |             |              |              | 15           |              |              | 3.79        | 3.17       |
| 5/19/2021  |              | 14.2        | 2.26         |              |              | 27.1         |              |             |            |
| 5/25/2021  | 8.47         |             |              |              |              |              | 23.9         |             |            |
| 10/25/2021 |              |             |              | 10.5         | 6.58         | 26.9         | 18.3         |             |            |
| 10/26/2021 | 8.16         |             | 1.96         |              |              |              |              |             |            |
| 11/1/2021  |              | 13.4        |              |              |              |              |              | 3.68        | 3.13       |
| 5/23/2022  |              |             |              |              |              | 25.5         |              |             |            |
| 5/24/2022  | 8.1          |             |              |              |              |              | 18.6         | 3.55        | 2.45       |
| 5/25/2022  |              | 13.9        | 1.8          | 11.6         | 49.6         |              |              |             |            |
| 10/31/2022 |              |             |              | 11.2         | 58.5         | 31.299999    | 31.700001    |             |            |
| 11/1/2022  |              | 11.1        | 2.24         |              |              |              |              | 3.5         |            |
| 11/2/2022  | 7.84         |             |              |              |              |              |              |             | 2.03       |
| 4/3/2023   |              |             |              |              |              |              |              |             | 1.79       |
| 4/4/2023   |              |             | 2.35         | 10.4         | 83.199997    |              |              | 2.57        |            |
| 4/5/2023   |              | 11.4        |              |              |              | 4.89         |              |             |            |
| 4/24/2023  | 9.13         |             |              |              |              |              | 28.5         |             |            |

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-20H | BY-AP-MW-20V |
|------------|--------------|--------------|
| 3/2/2016   |              |              |
| 4/19/2016  |              |              |
| 6/8/2016   |              |              |
| 8/31/2016  |              |              |
| 10/19/2016 |              |              |
| 1/31/2017  |              |              |
| 5/2/2017   |              |              |
| 6/6/2017   |              |              |
| 9/12/2017  |              |              |
| 9/13/2017  |              |              |
| 5/1/2018   |              |              |
| 8/28/2018  |              |              |
| 8/29/2018  |              |              |
| 11/27/2018 |              |              |
| 1/8/2019   |              |              |
| 3/20/2019  |              |              |
| 5/29/2019  |              |              |
| 7/31/2019  | 30.3         |              |
| 10/1/2019  | 29.4         |              |
| 10/2/2019  |              |              |
| 3/30/2020  |              |              |
| 3/31/2020  |              |              |
| 4/1/2020   | 26           |              |
| 8/31/2020  |              |              |
| 9/1/2020   | 28.8         | 14.7         |
| 9/2/2020   |              |              |
| 5/17/2021  |              |              |
| 5/18/2021  |              |              |
| 5/19/2021  | 30.9         | 15.3         |
| 5/25/2021  |              |              |
| 10/25/2021 |              |              |
| 10/26/2021 | 30.2         |              |
| 11/1/2021  |              | 15.1         |
| 5/23/2022  | 28.6         |              |
| 5/24/2022  |              | 14.4         |
| 5/25/2022  |              |              |
| 10/31/2022 | 28           |              |
| 11/1/2022  |              | 13.8         |
| 11/2/2022  |              |              |
| 4/3/2023   |              |              |
| 4/4/2023   |              |              |
| 4/5/2023   |              |              |
| 4/24/2023  | 28.1         | 24.299999    |



# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | BY-AP-MW-6 | BY-AP-MW-7 |
|------------|------------|------------|
| 3/1/2016   | 1.87       | 7.65       |
| 3/2/2016   |            |            |
| 4/19/2016  | 1.69       |            |
| 4/20/2016  |            | 7.54       |
| 6/7/2016   | 1.75       | 7.71       |
| 8/30/2016  | 1.77       |            |
| 8/31/2016  |            | 8.1        |
| 10/18/2016 |            |            |
| 10/19/2016 | 1.8        | 8.59       |
| 1/31/2017  | 1.98       | 8.78       |
| 5/2/2017   |            |            |
| 5/3/2017   | 1.97       | 8.85       |
| 6/6/2017   |            |            |
| 6/7/2017   | 1.98       | 8.99       |
| 9/12/2017  |            |            |
| 9/14/2017  | 2.14       | 9.64       |
| 5/1/2018   |            |            |
| 5/2/2018   | 2.13       | 9.14       |
| 8/28/2018  |            |            |
| 8/29/2018  | 1.92       |            |
| 11/27/2018 |            |            |
| 11/28/2018 | 1.91       | 9.66       |
| 1/8/2019   |            |            |
| 5/29/2019  | 1.72       | 8.88       |
| 7/31/2019  |            |            |
| 9/30/2019  |            | 9.8        |
| 10/1/2019  | 1.92       |            |
| 10/2/2019  |            |            |
| 3/30/2020  |            | 10.1       |
| 3/31/2020  | 1.68       |            |
| 4/1/2020   |            |            |
| 9/1/2020   |            |            |
| 9/2/2020   | 1.8        | 10.4       |
| 5/17/2021  | 1.93       |            |
| 5/18/2021  |            | 10.2       |
| 5/24/2021  |            |            |
| 5/25/2021  |            |            |
| 10/26/2021 |            |            |
| 10/27/2021 |            | 10         |
| 11/1/2021  |            |            |
| 11/2/2021  | 1.97       |            |
| 5/24/2022  |            | 10.5       |
| 5/25/2022  | 1.62       |            |
| 10/31/2022 | 1.63       | 2.36       |
| 11/1/2022  |            |            |
| 11/2/2022  |            |            |
| 4/3/2023   |            | 3.52       |
| 4/4/2023   | 1.94       |            |
| 4/24/2023  |            |            |



# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-7V | BY-AP-MW-8 | BY-AP-MW-8V | BY-AP-MW-9 | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|------------|-------------|------------|-------------|------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 2/23/2016  |             |            |             |            | 1.28            | 1.11            | 1.77            | 1.42            |              |
| 3/1/2016   |             | 36.1       |             | 40.3       |                 |                 |                 |                 |              |
| 4/19/2016  |             |            |             |            | 1.19            | 1.09            | 1.68            | 1.31            |              |
| 4/20/2016  |             | 34.5       |             | 38.2       |                 |                 |                 |                 |              |
| 6/6/2016   |             |            |             |            | 1.19            |                 |                 |                 | 1.35         |
| 6/7/2016   |             | 34.7       |             |            |                 | 1.16            | 1.68            |                 |              |
| 6/8/2016   |             |            |             | 39.2       |                 |                 |                 |                 |              |
| 8/30/2016  |             | 34.1       |             |            | 1.11            | 1.08            | 1.62            | 1.31            |              |
| 8/31/2016  |             |            |             | 38.2       |                 |                 |                 |                 |              |
| 10/18/2016 |             | 33.2       |             |            | 1.04            | 1.03            | 1.53            | 1.22            |              |
| 10/19/2016 |             |            |             | 38.7       |                 |                 |                 |                 |              |
| 1/31/2017  |             | 32.3       |             |            | 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   |             | 34.1       |             | 39.1       |                 |                 |                 |                 |              |
| 6/6/2017   |             |            |             |            | 0.978           | 1.25            | 1.55            | 1.28            |              |
| 6/7/2017   |             | 34.7       |             | 40.3       |                 |                 |                 |                 |              |
| 9/12/2017  |             |            |             |            |                 |                 |                 |                 | 1.47         |
| 9/13/2017  |             |            |             |            | 1.14            | 1.6             | 1.71            |                 |              |
| 9/14/2017  |             | 34.4       |             | 40.7       |                 |                 |                 |                 |              |
| 5/1/2018   |             |            |             |            |                 | 1.58            | 1.76            | 1.47            |              |
| 5/2/2018   |             | 32.3       |             | 40         | 1.64            |                 |                 |                 |              |
| 8/28/2018  |             |            |             | 40         |                 |                 |                 |                 |              |
| 8/29/2018  |             | 32.6       |             |            |                 |                 |                 |                 |              |
| 11/26/2018 |             |            |             |            |                 |                 |                 |                 | 1.52         |
| 11/27/2018 |             | 32.5       |             |            | 2.01            | 1.49            | 1.69            |                 |              |
| 11/28/2018 |             |            |             | 39.7       |                 |                 |                 |                 |              |
| 1/9/2019   | 37          |            | 27.2        |            |                 |                 |                 |                 |              |
| 5/28/2019  |             |            |             |            |                 |                 |                 | 1.6             |              |
| 5/29/2019  |             | 31.9       |             |            | 1.85            | 1.59            | 1.74            |                 |              |
| 5/30/2019  |             |            |             | 38.5       |                 |                 |                 |                 |              |
| 9/30/2019  |             | 33         |             | 39.9       |                 |                 |                 |                 |              |
| 10/1/2019  | 18.7        |            | 24.2        |            |                 |                 |                 |                 |              |
| 10/2/2019  |             |            |             |            | 1.55            | 1.7             | 1.86            | 1.7             |              |
| 3/30/2020  | 20          | 32.2       | 24.5        |            |                 |                 |                 |                 |              |
| 3/31/2020  |             |            |             | 40.1       | 1.96            | 1.43            | 1.92            | 1.78            |              |
| 9/2/2020   | 13.9        | 31.5       | 23.3        | 38         |                 |                 |                 |                 | 0.547        |
| 9/8/2020   |             |            |             |            |                 |                 |                 | 1.94            |              |
| 9/9/2020   |             |            |             |            | 1.43            | 1.5             | 1.97            |                 |              |
| 5/11/2021  |             | 33         |             |            |                 | 1.39            | 2.06            | 1.93            |              |
| 5/12/2021  |             |            |             |            | 1.34            |                 |                 |                 |              |
| 5/18/2021  | 14.1        |            | 26.4        | 40.5       |                 |                 |                 |                 |              |
| 5/24/2021  |             |            |             |            |                 |                 |                 |                 | 0.554        |
| 10/18/2021 |             |            |             |            |                 |                 | 2.1             | 2.01            |              |
| 10/19/2021 |             |            |             |            | 1.17            | 1.32            |                 |                 |              |
| 10/26/2021 |             | 33.5       | 25.7        |            |                 |                 |                 |                 |              |
| 10/27/2021 | 17.2        |            |             | 40.3       |                 |                 |                 |                 |              |
| 11/2/2021  |             |            |             |            |                 |                 |                 |                 | 0.567        |
| 5/23/2022  |             |            | 24.4        |            |                 |                 |                 |                 |              |
| 5/24/2022  | 8.84        | 31.5       |             | 38.3       |                 |                 |                 |                 |              |
| 5/25/2022  |             |            |             |            |                 |                 |                 |                 | 0.573        |
| 5/31/2022  |             |            |             |            | 1.14            | 1.24            | 1.95            | 2.02            |              |

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | BY-AP-MW-7V | BY-AP-MW-8 | BY-AP-MW-8V | BY-AP-MW-9 | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|------------|-------------|------------|-------------|------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 10/31/2022 | 3.61        |            | 23.9        | 38.099998  |                 |                 |                 |                 |              |
| 11/1/2022  |             |            |             |            | 1.01            | 1.23            | 1.94            | 1.59            | 0.609        |
| 11/2/2022  |             | 31         |             |            |                 |                 |                 |                 |              |
| 4/3/2023   | 1.43        | 4.21       | 8.95        |            |                 |                 |                 |                 | 0.703        |
| 4/4/2023   |             |            |             | 32.400002  |                 |                 |                 |                 |              |
| 4/12/2023  |             |            |             |            | 1.02            | 1.16            | 1.83            | 1.76            |              |



# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-14V | BY-AP-MW-15 |
|------------|--------------|-------------|
| 3/1/2016   |              |             |
| 3/2/2016   |              | 20.9        |
| 4/19/2016  |              | 19.8        |
| 4/20/2016  |              |             |
| 6/8/2016   |              | 24          |
| 8/30/2016  |              |             |
| 8/31/2016  |              | 28          |
| 10/18/2016 |              |             |
| 10/19/2016 |              | 21.3        |
| 3/21/2017  |              | 34          |
| 3/22/2017  |              |             |
| 5/2/2017   |              | 33          |
| 5/3/2017   |              |             |
| 6/6/2017   |              | 35          |
| 6/7/2017   |              |             |
| 9/13/2017  |              | 36          |
| 9/14/2017  |              |             |
| 5/1/2018   |              | 42          |
| 5/2/2018   |              |             |
| 8/28/2018  |              |             |
| 8/29/2018  |              | 38          |
| 11/27/2018 |              | 43          |
| 11/28/2018 |              |             |
| 1/8/2019   |              |             |
| 5/29/2019  |              | 47.2        |
| 5/30/2019  |              |             |
| 9/30/2019  |              |             |
| 10/1/2019  |              | 56.3        |
| 10/2/2019  |              |             |
| 3/30/2020  |              |             |
| 3/31/2020  |              |             |
| 4/1/2020   |              | 54.7        |
| 9/1/2020   |              |             |
| 9/2/2020   | 178          | 47          |
| 5/11/2021  |              | 80          |
| 5/18/2021  |              |             |
| 5/19/2021  |              |             |
| 5/25/2021  | 210          |             |
| 10/26/2021 | 191          | 85.4        |
| 10/27/2021 |              |             |
| 11/1/2021  |              |             |
| 11/2/2021  |              |             |
| 5/23/2022  |              |             |
| 5/24/2022  | 184          |             |
| 5/25/2022  |              | 80.7        |
| 11/1/2022  | 175          | 99.099998   |
| 11/2/2022  |              |             |
| 4/3/2023   |              | 91.5        |
| 4/4/2023   | 174          |             |
| 4/5/2023   |              |             |

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-15V | BY-AP-MW-16 | BY-AP-MW-16V | BY-AP-MW-17H | BY-AP-MW-17V | BY-AP-MW-18H | BY-AP-MW-19H | BY-AP-MW-1V | BY-AP-MW-2 |
|------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|-------------|------------|
| 3/2/2016   |              | 16.6        |              |              |              |              |              |             | 6.08       |
| 4/19/2016  |              | 15.7        |              |              |              |              |              |             | 6.2        |
| 6/8/2016   |              | 15.1        |              |              |              |              |              |             | 6.2        |
| 8/31/2016  |              | 15.9        |              |              |              |              |              |             | 6.51       |
| 10/19/2016 |              | 15.3        |              |              |              |              |              |             | 6.85       |
| 3/21/2017  |              | 19          |              |              |              |              |              |             | 7.2        |
| 5/2/2017   |              | 19          |              |              |              |              |              |             | 8.3        |
| 6/6/2017   |              | 19          |              |              |              |              |              |             | 8.5        |
| 9/12/2017  |              |             |              |              |              |              |              |             | 8.6        |
| 9/13/2017  |              | 21          |              |              |              |              |              |             |            |
| 5/1/2018   |              | 18          |              |              |              |              |              |             | 7.6        |
| 8/28/2018  |              |             |              |              |              |              |              |             | 8.5        |
| 8/29/2018  |              | 20          |              |              |              |              |              |             |            |
| 11/27/2018 |              | 20          |              |              |              |              |              |             | 8.8        |
| 1/8/2019   |              |             |              |              |              |              | 42           |             |            |
| 3/20/2019  |              |             |              |              |              | 17.6         |              |             |            |
| 5/29/2019  |              | 20          |              |              |              |              |              |             | 8.31       |
| 7/31/2019  | 157          |             |              | 18           |              |              | 16.4         |             |            |
| 10/1/2019  | 195          | 20.3        |              |              |              | 20.1         | 16.8         |             | 8.19       |
| 10/2/2019  |              |             |              | 17.7         |              |              |              | 60.7        |            |
| 3/30/2020  |              |             |              |              |              |              |              | 69.1        |            |
| 3/31/2020  |              | 20.8        |              |              |              |              |              |             | 8.48       |
| 4/1/2020   |              |             |              | 17.2         |              | 12.2         |              |             |            |
| 8/31/2020  |              |             |              |              |              |              |              |             | 8.3        |
| 9/1/2020   | 170          |             |              | 18.2         | 273          | 19.8         | 17.6         | 69          |            |
| 9/2/2020   |              | 20.8        | 75.6         |              |              |              |              |             |            |
| 5/17/2021  |              |             |              | 17.1         |              |              |              |             |            |
| 5/18/2021  |              |             |              |              | 225          |              |              | 79.5        | 7.89       |
| 5/19/2021  |              | 21.4        | 81.2         |              |              | 19.3         |              |             |            |
| 5/25/2021  | 180          |             |              |              |              |              | 10.7         |             |            |
| 10/25/2021 |              |             |              | 18.4         | 111          | 20.5         | 10.1         |             |            |
| 10/26/2021 | 196          |             | 68.3         |              |              |              |              |             |            |
| 11/1/2021  |              | 22.3        |              |              |              |              |              | 79.4        | 8.16       |
| 5/23/2022  |              |             |              |              |              | 18.9         |              |             |            |
| 5/24/2022  | 212          |             |              |              |              |              | 10.4         | 95.1        | 9.21       |
| 5/25/2022  |              | 20          | 56.6         | 16           | 649          |              |              |             |            |
| 10/31/2022 |              |             |              | 17.1         | 914          | 27.1         | 15.2         |             |            |
| 11/1/2022  |              | 23.5        | 70.900002    |              |              |              |              | 98.5        |            |
| 11/2/2022  | 179          |             |              |              |              |              |              |             | 8.49       |
| 4/3/2023   |              |             |              |              |              |              |              |             | 7.35       |
| 4/4/2023   |              |             | 55           | 17.6         | 1540         |              |              | 92.300003   |            |
| 4/5/2023   |              | 21.799999   |              |              |              | 6.46         |              |             |            |
| 4/24/2023  | 192          |             |              |              |              |              | 15.2         |             |            |

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-20H | BY-AP-MW-20V |
|------------|--------------|--------------|
| 3/2/2016   |              |              |
| 4/19/2016  |              |              |
| 6/8/2016   |              |              |
| 8/31/2016  |              |              |
| 10/19/2016 |              |              |
| 3/21/2017  |              |              |
| 5/2/2017   |              |              |
| 6/6/2017   |              |              |
| 9/12/2017  |              |              |
| 9/13/2017  |              |              |
| 5/1/2018   |              |              |
| 8/28/2018  |              |              |
| 8/29/2018  |              |              |
| 11/27/2018 |              |              |
| 1/8/2019   |              |              |
| 3/20/2019  |              |              |
| 5/29/2019  |              |              |
| 7/31/2019  | 33.4         |              |
| 10/1/2019  | 44.7         |              |
| 10/2/2019  |              |              |
| 3/30/2020  |              |              |
| 3/31/2020  |              |              |
| 4/1/2020   | 23.1         |              |
| 8/31/2020  |              |              |
| 9/1/2020   | 34.6         | 27.1         |
| 9/2/2020   |              |              |
| 5/17/2021  |              |              |
| 5/18/2021  |              |              |
| 5/19/2021  | 36.2         | 32.4         |
| 5/25/2021  |              |              |
| 10/25/2021 |              |              |
| 10/26/2021 | 34           |              |
| 11/1/2021  |              | 29.6         |
| 5/23/2022  | 44.1         |              |
| 5/24/2022  |              | 35.4         |
| 5/25/2022  |              |              |
| 10/31/2022 | 35.299999    |              |
| 11/1/2022  |              | 28.4         |
| 11/2/2022  |              |              |
| 4/3/2023   |              |              |
| 4/4/2023   |              |              |
| 4/5/2023   |              |              |
| 4/24/2023  | 37.599998    | 20.700001    |



# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-6 | BY-AP-MW-7 |
|------------|------------|------------|
| 3/1/2016   | 5.77       | 11.2       |
| 3/2/2016   |            |            |
| 4/19/2016  | 5.57       |            |
| 4/20/2016  |            | 10.8       |
| 6/7/2016   | 5.52       | 10.8       |
| 8/30/2016  | 5.5        |            |
| 8/31/2016  |            | 10.8       |
| 10/18/2016 |            |            |
| 10/19/2016 | 5.55       | 10.8       |
| 3/21/2017  |            |            |
| 3/22/2017  | 6          | 13         |
| 5/2/2017   |            |            |
| 5/3/2017   | 6.4        | 14         |
| 6/6/2017   |            |            |
| 6/7/2017   | 5.9        | 14         |
| 9/12/2017  |            |            |
| 9/14/2017  | 6.5        | 13         |
| 5/1/2018   |            |            |
| 5/2/2018   | 5.5        | 13         |
| 8/28/2018  |            |            |
| 8/29/2018  | 5.4        |            |
| 11/27/2018 |            |            |
| 11/28/2018 | 6.2        | 13         |
| 1/8/2019   |            |            |
| 5/29/2019  | 6.15       | 13.3       |
| 7/31/2019  |            |            |
| 9/30/2019  |            | 13.1       |
| 10/1/2019  | 5.99       |            |
| 10/2/2019  |            |            |
| 3/30/2020  |            | 13.3       |
| 3/31/2020  | 5.94       |            |
| 4/1/2020   |            |            |
| 9/1/2020   |            |            |
| 9/2/2020   | 5.94       | 12.9       |
| 5/17/2021  | 6.26       |            |
| 5/18/2021  |            | 14.2       |
| 5/24/2021  |            |            |
| 5/25/2021  |            |            |
| 10/26/2021 |            |            |
| 10/27/2021 |            | 15.3       |
| 11/1/2021  |            |            |
| 11/2/2021  | 6.4        |            |
| 5/24/2022  |            | 13.2       |
| 5/25/2022  | 6.63       |            |
| 10/31/2022 | 7.48       | 95.699997  |
| 11/1/2022  |            |            |
| 11/2/2022  |            |            |
| 4/3/2023   |            | 59.400002  |
| 4/4/2023   | 7.81       |            |
| 4/24/2023  |            |            |



# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-7V | BY-AP-MW-8 | BY-AP-MW-8V | BY-AP-MW-9 | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|------------|-------------|------------|-------------|------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 2/23/2016  |             |            |             |            | 3.59            | 3.99            | 3.68            | 3.5             |              |
| 3/1/2016   |             | 24.5       |             | 20.4       |                 |                 |                 |                 |              |
| 4/19/2016  |             |            |             |            | 2.89            | 4.08            | 3.72            | 3.63            |              |
| 4/20/2016  |             | 22.5       |             | 22.7       |                 |                 |                 |                 |              |
| 6/6/2016   |             |            |             |            | 3.12            |                 |                 | 3.6             |              |
| 6/7/2016   |             | 21.6       |             |            |                 | 4.28            | 3.66            |                 |              |
| 6/8/2016   |             |            |             | 25.3       |                 |                 |                 |                 |              |
| 8/30/2016  |             | 21.6       |             |            | 3.91            | 4.26            | 3.7             | 3.54            |              |
| 8/31/2016  |             |            |             | 24.4       |                 |                 |                 |                 |              |
| 10/18/2016 |             | 20.2       |             |            | 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  |             | 24         |             | 26         |                 |                 |                 |                 |              |
| 5/2/2017   |             |            |             |            | 3.5 (D)         | 5 (D)           | 4.6 (D)         | 3.9 (D)         |              |
| 5/3/2017   |             | 25         |             | 26         |                 |                 |                 |                 |              |
| 6/6/2017   |             |            |             |            | 3.1 (D)         | 3.9 (D)         | 3.4 (D)         | 3.4 (D)         |              |
| 6/7/2017   |             | 24         |             | 27         |                 |                 |                 |                 |              |
| 9/12/2017  |             |            |             |            |                 |                 |                 | 4.3             |              |
| 9/13/2017  |             |            |             |            | 4               | 4.3             | 3.9             |                 |              |
| 9/14/2017  |             | 24         |             | 24         |                 |                 |                 |                 |              |
| 5/1/2018   |             |            |             |            |                 | 3.7             | 4.1             | 3.8             |              |
| 5/2/2018   |             | 23         |             | 22         | 9.9             |                 |                 |                 |              |
| 8/28/2018  |             |            |             | 21         |                 |                 |                 |                 |              |
| 8/29/2018  |             | 25         |             |            |                 |                 |                 |                 |              |
| 11/26/2018 |             |            |             |            |                 |                 |                 | 3.6             |              |
| 11/27/2018 |             | 27         |             |            | 4.7             | 3.2             | 3.5             |                 |              |
| 11/28/2018 |             |            |             | 23         |                 |                 |                 |                 |              |
| 1/9/2019   | 16.9        |            | 21.9        |            |                 |                 |                 |                 |              |
| 5/28/2019  |             |            |             |            |                 |                 |                 | 3.6             |              |
| 5/29/2019  |             | 27.4       |             |            | 5.48            | 2.93            | 3.58            |                 |              |
| 5/30/2019  |             |            |             | 27.7       |                 |                 |                 |                 |              |
| 9/30/2019  |             | 25.5       |             | 21.7       |                 |                 |                 |                 |              |
| 10/1/2019  | 13.2        |            | 22.6        |            |                 |                 |                 |                 |              |
| 10/2/2019  |             |            |             |            | 3.65            | 2.75            | 3.64            | 3.5             |              |
| 3/30/2020  | 15.5        | 22.6       | 22.7        |            |                 |                 |                 |                 |              |
| 3/31/2020  |             |            |             | 20.6       | 3.17            | 2.72            | 3.47            | 3.34            |              |
| 9/2/2020   | 14.2        | 22.2       | 22.6        | 18.5       |                 |                 |                 |                 | 3.85         |
| 9/8/2020   |             |            |             |            |                 |                 |                 | 3.29            |              |
| 9/9/2020   |             |            |             |            | 2.92            | 2.32            | 3.47            |                 |              |
| 5/11/2021  |             | 21.9       |             |            |                 | 2.16            | 3.42            | 3.33            |              |
| 5/12/2021  |             |            |             |            | 2.18            |                 |                 |                 |              |
| 5/18/2021  | 19          |            | 22.7        | 18.3       |                 |                 |                 |                 |              |
| 5/24/2021  |             |            |             |            |                 |                 |                 |                 | 3.48         |
| 10/18/2021 |             |            |             |            |                 |                 | 3.45            | 3.32            |              |
| 10/19/2021 |             |            |             |            | 2.37            | 2.08            |                 |                 |              |
| 10/26/2021 |             | 21.7       | 23.9        |            |                 |                 |                 |                 |              |
| 10/27/2021 | 18.9        |            |             | 19.1       |                 |                 |                 |                 |              |
| 11/2/2021  |             |            |             |            |                 |                 |                 |                 | 3.42         |
| 5/23/2022  |             |            | 22.1        |            |                 |                 |                 |                 |              |
| 5/24/2022  | 40.4        | 25         |             | 17.3       |                 |                 |                 |                 |              |
| 5/25/2022  |             |            |             |            |                 |                 |                 |                 | 3.22         |
| 5/31/2022  |             |            |             |            | 1.93            | 2.17            | 3.39            | 3.31            |              |

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | BY-AP-MW-7V | BY-AP-MW-8 | BY-AP-MW-8V | BY-AP-MW-9 | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|------------|-------------|------------|-------------|------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 10/31/2022 | 129         |            | 27.1        | 25.1       |                 |                 |                 |                 |              |
| 11/1/2022  |             |            |             |            | 2.37            | 2.22            | 3.09            | 3.3             | 3.52         |
| 11/2/2022  |             | 26.6       |             |            |                 |                 |                 |                 |              |
| 4/3/2023   | 85.800003   | 10.8       | 279         |            |                 |                 |                 |                 | 3.61         |
| 4/4/2023   |             |            |             | 18         |                 |                 |                 |                 |              |
| 4/12/2023  |             |            |             |            | 2.31            | 2.25            | 3.11            | 3.42            |              |

# Time Series

Constituent: Chromium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

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-13V | BY-AP-MW-14 |
|------------|-------------|--------------|--------------|-------------|-------------|--------------|-------------|--------------|-------------|
| 3/1/2016   |             | <0.01        |              | 0.00213 (J) |             |              |             |              |             |
| 3/2/2016   | 0.00591 (J) |              |              |             | 0.0042 (J)  |              | 0.00656 (J) |              | 0.00552 (J) |
| 4/19/2016  | 0.0077 (J)  |              |              |             |             |              |             |              |             |
| 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) |
| 8/30/2016  |             |              |              |             |             |              |             |              | 0.00534 (J) |
| 8/31/2016  | 0.00246 (J) | <0.01        |              | 0.00221 (J) | 0.0032 (J)  |              | 0.00693 (J) |              |             |
| 10/18/2016 |             |              |              |             |             |              |             |              | 0.00556 (J) |
| 10/19/2016 | 0.00248 (J) | <0.01        |              | 0.00213 (J) | 0.0035 (J)  |              | 0.00732 (J) |              |             |
| 1/31/2017  | 0.00556 (J) |              |              |             |             |              | 0.00699 (J) |              | 0.00514 (J) |
| 2/1/2017   |             | <0.01        |              | 0.00228 (J) | 0.00371 (J) |              |             |              |             |
| 5/2/2017   | 0.00269 (J) |              |              |             |             |              |             |              | 0.00524 (J) |
| 5/3/2017   |             | <0.01        |              | 0.00229 (J) | 0.00369 (J) |              | 0.00712 (J) |              |             |
| 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)  |              |             |
| 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) |
| 5/30/2019  |             | <0.01        |              |             |             |              |             |              |             |
| 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) |
| 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   |             |              |              |             |             |              |             |              |             |
| 9/1/2020   | 0.00242 (J) | <0.01        | <0.01        | 0.00259 (J) | 0.00332 (J) | <0.01        | 0.00888 (J) |              |             |
| 9/2/2020   |             |              |              |             |             |              |             | 0.00525 (J)  | 0.00482 (J) |
| 5/11/2021  |             | 0.000685 (J) |              |             |             |              |             |              |             |
| 5/18/2021  | 0.00294     |              | 0.000684 (J) |             | 0.00377     | 0.00112      |             |              |             |
| 5/19/2021  |             |              |              | 0.00301     |             |              | 0.00692     | 0.00416      |             |
| 5/25/2021  |             |              |              |             |             |              |             |              | 0.00365     |
| 10/26/2021 |             |              |              |             |             |              | 0.00755     | 0.00606      |             |
| 10/27/2021 |             | 0.00072 (J)  | 0.00068 (J)  |             |             |              |             |              | 0.00401     |
| 11/1/2021  | 0.00244     |              |              |             | 0.00423     | 0.00086 (J)  |             |              |             |
| 11/2/2021  |             |              |              | 0.00348     |             |              |             |              |             |
| 5/23/2022  |             |              |              | 0.00474     | 0.00374     | 0.00081 (J)  |             |              |             |
| 5/24/2022  | 0.00238     | 0.00052 (J)  | 0.00049 (J)  |             |             |              | 0.00685     |              |             |
| 5/25/2022  |             |              |              |             |             |              |             | 0.00488      | 0.00345     |
| 11/1/2022  |             |              | 0.000597 (J) | 0.00316     | 0.00338     | 0.001 (J)    | 0.00772     | 0.00391      | 0.00317     |
| 11/2/2022  | 0.00371     | 0.000642 (J) |              |             |             |              |             |              |             |
| 4/3/2023   | 0.00638     | 0.00066 (J)  | 0.000508 (J) |             |             |              |             |              |             |
| 4/4/2023   |             |              |              | 0.00254     | 0.00351     | 0.000978 (J) | 0.00286     | 0.00417      |             |
| 4/5/2023   |             |              |              |             |             |              |             |              | 0.00336     |

# Time Series

Constituent: Chromium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-14V | BY-AP-MW-15  |
|------------|--------------|--------------|
| 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  |              | <0.01        |
| 1/23/2018  |              |              |
| 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  |              |              |
| 9/30/2019  |              |              |
| 10/1/2019  |              | <0.01        |
| 10/2/2019  |              |              |
| 3/30/2020  |              |              |
| 3/31/2020  |              |              |
| 4/1/2020   |              | <0.01        |
| 9/1/2020   |              |              |
| 9/2/2020   | <0.01        | <0.01        |
| 5/11/2021  |              | 0.000581 (J) |
| 5/18/2021  |              |              |
| 5/19/2021  |              |              |
| 5/25/2021  | 0.00113      |              |
| 10/26/2021 | 0.00098 (J)  | 0.00052 (J)  |
| 10/27/2021 |              |              |
| 11/1/2021  |              |              |
| 11/2/2021  |              |              |
| 5/23/2022  |              |              |
| 5/24/2022  | 0.0006 (J)   |              |
| 5/25/2022  |              | 0.00049 (J)  |
| 11/1/2022  | 0.000613 (J) | 0.000361 (J) |
| 11/2/2022  |              |              |
| 4/3/2023   |              | 0.000638 (J) |
| 4/4/2023   | 0.00049 (J)  |              |
| 4/5/2023   |              |              |

# Time Series

Constituent: Chromium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-15V | BY-AP-MW-16 | BY-AP-MW-16V | BY-AP-MW-17H | BY-AP-MW-17V | BY-AP-MW-18H | BY-AP-MW-19H | BY-AP-MW-1V  | BY-AP-MW-2   |
|------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 3/2/2016   |              | <0.01       |              |              |              |              |              |              | <0.00102     |
| 4/19/2016  |              | <0.01       |              |              |              |              |              |              | <0.00102     |
| 6/8/2016   |              | <0.01       |              |              |              |              |              |              | <0.00102     |
| 8/31/2016  |              | 0.00215 (J) |              |              |              |              |              |              | <0.00102     |
| 10/19/2016 |              | <0.01       |              |              |              |              |              |              | <0.00102     |
| 1/31/2017  |              | <0.01       |              |              |              |              |              |              | <0.00102     |
| 5/2/2017   |              | <0.01       |              |              |              |              |              |              | <0.00102     |
| 6/6/2017   |              | <0.01       |              |              |              |              |              |              | <0.00102     |
| 1/23/2018  |              | 0.00253 (J) |              |              |              |              |              |              |              |
| 1/24/2018  |              |             |              |              |              |              |              |              | <0.00102     |
| 5/1/2018   |              | <0.01       |              |              |              |              |              |              | <0.00102     |
| 11/27/2018 |              | <0.01       |              |              |              |              |              |              | <0.00102     |
| 1/8/2019   |              |             |              |              |              |              |              | <0.01        |              |
| 3/20/2019  |              |             |              |              |              | 0.00236 (J)  |              |              |              |
| 5/29/2019  |              | <0.01       |              |              |              |              |              |              | <0.00102     |
| 7/31/2019  | <0.001015    |             |              | <0.01        |              |              | <0.01        |              |              |
| 10/1/2019  | <0.001015    | <0.01       |              |              |              | <0.01        | <0.01        |              | <0.00102     |
| 10/2/2019  |              |             |              | <0.01        |              |              |              | <0.01        |              |
| 3/30/2020  |              |             |              |              |              |              |              | <0.01        |              |
| 3/31/2020  |              | <0.01       |              |              |              |              |              |              | <0.00102     |
| 4/1/2020   |              |             |              | <0.01        |              | <0.01        |              |              |              |
| 8/31/2020  |              |             |              |              |              |              |              |              | <0.00102     |
| 9/1/2020   | <0.001015    |             |              | <0.01        | <0.01        | <0.01        | <0.01        | <0.01        |              |
| 9/2/2020   |              | <0.01       | <0.00102     |              |              |              |              |              |              |
| 5/17/2021  |              |             |              | 0.000627 (J) |              |              |              |              |              |
| 5/18/2021  |              |             |              |              | 0.000973 (J) |              |              | 0.000447 (J) | 0.000394 (J) |
| 5/19/2021  |              | 0.00162     | 0.000385 (J) |              |              | 0.00132      |              |              |              |
| 5/25/2021  | 0.000258 (J) |             |              |              |              |              | 0.000391 (J) |              |              |
| 10/25/2021 |              |             |              | 0.0006 (J)   | 0.00062 (J)  | 0.00134      | 0.00044 (J)  |              |              |
| 10/26/2021 | 0.00026 (J)  |             | 0.0004 (J)   |              |              |              |              |              |              |
| 11/1/2021  |              | 0.0018      |              |              |              |              |              | 0.00045 (J)  | 0.00029 (J)  |
| 5/23/2022  |              |             |              |              |              | 0.00133      |              |              |              |
| 5/24/2022  | 0.00023 (J)  |             |              |              |              |              | 0.00042 (J)  | 0.00038 (J)  | <0.00102     |
| 5/25/2022  |              | 0.00135     | <0.00102     | 0.00033 (J)  | 0.00048 (J)  |              |              |              |              |
| 10/31/2022 |              |             |              | 0.000446 (J) | 0.000316 (J) | 0.000706 (J) | 0.000431 (J) |              |              |
| 11/1/2022  |              | 0.00122     | 0.000275 (J) |              |              |              |              | 0.000558 (J) |              |
| 11/2/2022  | <0.001015    |             |              |              |              |              |              |              | 0.000206 (J) |
| 4/3/2023   |              |             |              |              |              |              |              |              | 0.000877 (J) |
| 4/4/2023   |              |             | 0.00133      | 0.00042 (J)  | 0.000244 (J) |              |              | 0.000342 (J) |              |
| 4/5/2023   |              | 0.00125     |              |              |              | 0.000484 (J) |              |              |              |
| 4/24/2023  | 0.000278 (J) |             |              |              |              |              | 0.000396 (J) |              |              |

# Time Series

Constituent: Chromium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-20H | BY-AP-MW-20V |
|------------|--------------|--------------|
| 3/2/2016   |              |              |
| 4/19/2016  |              |              |
| 6/8/2016   |              |              |
| 8/31/2016  |              |              |
| 10/19/2016 |              |              |
| 1/31/2017  |              |              |
| 5/2/2017   |              |              |
| 6/6/2017   |              |              |
| 1/23/2018  |              |              |
| 1/24/2018  |              |              |
| 5/1/2018   |              |              |
| 11/27/2018 |              |              |
| 1/8/2019   |              |              |
| 3/20/2019  |              |              |
| 5/29/2019  |              |              |
| 7/31/2019  | 0.00209 (J)  |              |
| 10/1/2019  | 0.0025 (J)   |              |
| 10/2/2019  |              |              |
| 3/30/2020  |              |              |
| 3/31/2020  |              |              |
| 4/1/2020   | <0.01        |              |
| 8/31/2020  |              |              |
| 9/1/2020   | 0.00283 (J)  | <0.01        |
| 9/2/2020   |              |              |
| 5/17/2021  |              |              |
| 5/18/2021  |              |              |
| 5/19/2021  | 0.00284      | 0.000669 (J) |
| 5/25/2021  |              |              |
| 10/25/2021 |              |              |
| 10/26/2021 | 0.00261      |              |
| 11/1/2021  |              | 0.00061 (J)  |
| 5/23/2022  | 0.00233      |              |
| 5/24/2022  |              | 0.00046 (J)  |
| 5/25/2022  |              |              |
| 10/31/2022 | 0.00246      |              |
| 11/1/2022  |              | 0.000578 (J) |
| 11/2/2022  |              |              |
| 4/3/2023   |              |              |
| 4/4/2023   |              |              |
| 4/5/2023   |              |              |
| 4/24/2023  | 0.00253      | 0.000721 (J) |

# Time Series

Constituent: Chromium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-22H | BY-AP-MW-23H | BY-AP-MW-23V | BY-AP-MW-24H | BY-AP-MW-25H | BY-AP-MW-3   | BY-AP-MW-4   | BY-AP-MW-5   | BY-AP-MW-5V  |
|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 3/1/2016   |              |              |              |              |              |              | <0.01        | <0.01        |              |
| 3/2/2016   |              |              |              |              |              | <0.01        |              |              |              |
| 4/19/2016  |              |              |              |              |              | <0.01        | <0.01        |              |              |
| 4/20/2016  |              |              |              |              |              |              |              | <0.01        |              |
| 6/7/2016   |              |              |              |              |              | <0.01        | <0.01        | <0.01        |              |
| 8/30/2016  |              |              |              |              |              |              | <0.01        | <0.01        |              |
| 8/31/2016  |              |              |              |              |              | <0.01        |              |              |              |
| 10/18/2016 |              |              |              |              |              |              |              | <0.01        |              |
| 10/19/2016 |              |              |              |              |              | <0.01        | <0.01        |              |              |
| 1/31/2017  |              |              |              |              |              | <0.01        | <0.01        | <0.01        |              |
| 5/2/2017   |              |              |              |              |              | <0.01        | <0.01        |              |              |
| 5/3/2017   |              |              |              |              |              |              |              | <0.01        |              |
| 6/6/2017   |              |              |              |              |              | <0.01        | <0.01        |              |              |
| 6/7/2017   |              |              |              |              |              |              |              | <0.01        |              |
| 1/24/2018  |              |              |              |              |              | <0.01        | <0.01        | <0.01        |              |
| 5/1/2018   |              |              |              |              |              | <0.01        | <0.01        |              |              |
| 5/2/2018   |              |              |              |              |              |              |              | <0.01        |              |
| 11/27/2018 |              |              |              |              |              | <0.01        | <0.01        | <0.01        |              |
| 11/28/2018 |              |              |              |              |              |              |              |              |              |
| 1/8/2019   |              |              |              | <0.01        |              |              |              |              | <0.01        |
| 5/29/2019  |              |              |              |              |              | <0.01        | <0.01        | <0.01        |              |
| 7/31/2019  | <0.01        | <0.01        |              |              |              |              |              |              |              |
| 9/30/2019  |              |              |              |              |              |              |              |              |              |
| 10/1/2019  | <0.01        | <0.01        |              |              |              | <0.01        | <0.01        | <0.01        |              |
| 10/2/2019  |              |              |              | <0.01        |              |              |              |              | <0.01        |
| 3/30/2020  |              |              |              |              |              |              |              |              |              |
| 3/31/2020  |              |              |              | <0.01        |              | <0.01        | <0.01        | <0.01        | <0.01        |
| 4/1/2020   |              | <0.01        |              |              |              |              |              |              |              |
| 9/1/2020   | <0.01        | <0.01        | 0.00284 (J)  |              |              | <0.01        | <0.01        | <0.01        | <0.01        |
| 9/2/2020   |              |              |              | <0.01        | <0.01        |              |              |              |              |
| 5/17/2021  |              |              | 0.00163      |              |              |              |              |              |              |
| 5/18/2021  |              |              |              |              |              | 0.000919 (J) | 0.000544 (J) |              |              |
| 5/24/2021  |              | 0.000814 (J) |              |              | 0.00117      |              |              |              |              |
| 5/25/2021  | 0.000667 (J) |              |              | 0.000878 (J) |              |              |              |              |              |
| 10/26/2021 | 0.00062 (J)  | 0.0007 (J)   | 0.00061 (J)  | 0.00104      |              |              |              |              |              |
| 10/27/2021 |              |              |              |              |              |              |              |              |              |
| 11/1/2021  |              |              |              |              |              | 0.00093 (J)  | 0.00067 (J)  |              |              |
| 11/2/2021  |              |              |              |              | 0.00098 (J)  |              |              | 0.00101 (J)  | 0.00099 (J)  |
| 5/24/2022  | 0.00057 (J)  |              |              | 0.00081 (J)  |              |              |              |              |              |
| 5/25/2022  |              | 0.00051 (J)  | 0.00046 (J)  |              | 0.00103      | 0.00104      | 0.00026 (J)  | 0.00103      | 0.00048 (J)  |
| 10/31/2022 | 0.000493 (J) |              |              |              | 0.00111      |              | 0.00057 (J)  | 0.00096 (J)  | 0.001 (J)    |
| 11/1/2022  |              | 0.000394 (J) | <0.001015    |              |              | 0.00107      |              |              |              |
| 11/2/2022  |              |              |              | 0.000799 (J) |              |              |              |              |              |
| 4/3/2023   |              |              |              | 0.000781 (J) | 0.00106      |              |              |              |              |
| 4/4/2023   |              | 0.000406 (J) | 0.000237 (J) |              |              | 0.00053 (J)  | 0.000444 (J) | 0.000894 (J) | 0.000566 (J) |
| 4/24/2023  | 0.000486 (J) |              |              |              |              |              |              |              |              |

# Time Series

Constituent: Chromium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-6   | BY-AP-MW-7   |
|------------|--------------|--------------|
| 3/1/2016   | <0.01        | <0.01        |
| 3/2/2016   |              |              |
| 4/19/2016  | <0.01        |              |
| 4/20/2016  |              | <0.01        |
| 6/7/2016   | <0.01        | <0.01        |
| 8/30/2016  | <0.01        |              |
| 8/31/2016  |              | <0.01        |
| 10/18/2016 |              |              |
| 10/19/2016 | <0.01        | <0.01        |
| 1/31/2017  | <0.01        | <0.01        |
| 5/2/2017   |              |              |
| 5/3/2017   | <0.01        | <0.01        |
| 6/6/2017   |              |              |
| 6/7/2017   | <0.01        | <0.01        |
| 1/24/2018  | <0.01        | <0.01        |
| 5/1/2018   |              |              |
| 5/2/2018   | <0.01        | 0.00328 (J)  |
| 11/27/2018 |              |              |
| 11/28/2018 | <0.01        | <0.01        |
| 1/8/2019   |              |              |
| 5/29/2019  | <0.01        | <0.01        |
| 7/31/2019  |              |              |
| 9/30/2019  |              | <0.01        |
| 10/1/2019  | <0.01        |              |
| 10/2/2019  |              |              |
| 3/30/2020  |              | <0.01        |
| 3/31/2020  | <0.01        |              |
| 4/1/2020   |              |              |
| 9/1/2020   |              |              |
| 9/2/2020   | <0.01        | <0.01        |
| 5/17/2021  | 0.000313 (J) |              |
| 5/18/2021  |              | 0.00709      |
| 5/24/2021  |              |              |
| 5/25/2021  |              |              |
| 10/26/2021 |              |              |
| 10/27/2021 |              | 0.00309      |
| 11/1/2021  |              |              |
| 11/2/2021  | 0.00023 (J)  |              |
| 5/24/2022  |              | 0.00058 (J)  |
| 5/25/2022  | 0.00029 (J)  |              |
| 10/31/2022 | 0.000281 (J) | 0.000263 (J) |
| 11/1/2022  |              |              |
| 11/2/2022  |              |              |
| 4/3/2023   |              | 0.000246 (J) |
| 4/4/2023   | 0.000267 (J) |              |
| 4/24/2023  |              |              |



# Time Series

Constituent: Chromium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-7V  | BY-AP-MW-8 | BY-AP-MW-8V  | BY-AP-MW-9   | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|------------|--------------|------------|--------------|--------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 2/23/2016  |              |            |              |              | <0.01           | <0.01           | <0.01           | <0.01           |              |
| 3/1/2016   |              | <0.01      |              | <0.01        |                 |                 |                 |                 |              |
| 4/19/2016  |              |            |              |              | <0.01           | <0.01           | <0.01           | <0.01           |              |
| 4/20/2016  |              | <0.01      |              | <0.01        |                 |                 |                 |                 |              |
| 6/6/2016   |              |            |              |              | <0.01           |                 |                 |                 | <0.01        |
| 6/7/2016   |              | <0.01      |              |              |                 | <0.01           | <0.01           |                 |              |
| 6/8/2016   |              |            |              | <0.01        |                 |                 |                 |                 |              |
| 8/30/2016  |              | <0.01      |              |              | <0.01           | <0.01           | <0.01           | <0.01           |              |
| 8/31/2016  |              |            |              | <0.01        |                 |                 |                 |                 |              |
| 10/18/2016 |              | <0.01      |              |              | <0.01           | <0.01           | <0.01           | <0.01           |              |
| 10/19/2016 |              |            |              | <0.01        |                 |                 |                 |                 |              |
| 1/31/2017  |              | <0.01      |              |              | <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      |              | <0.01        |                 |                 |                 |                 |              |
| 6/6/2017   |              |            |              |              | <0.01           | <0.01           | <0.01           | <0.01           |              |
| 6/7/2017   |              | <0.01      |              | <0.01        |                 |                 |                 |                 |              |
| 1/23/2018  |              |            |              | <0.01        | <0.01           | 0.00596 (J)     | 0.00229 (J)     | <0.01           |              |
| 1/24/2018  |              | <0.01      |              |              |                 |                 |                 |                 |              |
| 5/1/2018   |              |            |              |              |                 | <0.01           | <0.01           | <0.01           |              |
| 5/2/2018   |              | <0.01      |              | <0.01        | <0.01           |                 |                 |                 |              |
| 11/26/2018 |              |            |              |              |                 |                 |                 |                 | <0.01        |
| 11/27/2018 |              | <0.01      |              |              | <0.01           | <0.01           | <0.01           |                 |              |
| 11/28/2018 |              |            |              | <0.01        |                 |                 |                 |                 |              |
| 1/9/2019   | <0.01        |            | <0.01        |              |                 |                 |                 |                 |              |
| 5/28/2019  |              |            |              |              |                 |                 |                 |                 | <0.01        |
| 5/29/2019  |              | <0.01      |              |              | <0.01           | <0.01           | <0.01           |                 |              |
| 5/30/2019  |              |            |              | <0.01        |                 |                 |                 |                 |              |
| 9/30/2019  |              | <0.01      |              | <0.01        |                 |                 |                 |                 |              |
| 10/1/2019  | <0.01        |            | <0.01        |              |                 |                 |                 |                 |              |
| 10/2/2019  |              |            |              |              | <0.01           | <0.01           | <0.01           | <0.01           |              |
| 3/30/2020  | <0.01        | <0.01      | <0.01        |              |                 |                 |                 |                 |              |
| 3/31/2020  |              |            |              | <0.01        | <0.01           | <0.01           | <0.01           | 0.00604 (J)     |              |
| 9/2/2020   | <0.01        | <0.01      | <0.01        | <0.01        |                 |                 |                 |                 | <0.01        |
| 9/8/2020   |              |            |              |              |                 |                 |                 |                 | <0.01        |
| 9/9/2020   |              |            |              |              | <0.01           | <0.01           | <0.01           |                 |              |
| 5/11/2021  |              | 0.00156    |              |              |                 | 0.00136         | 0.00146         | 0.00159         |              |
| 5/12/2021  |              |            |              |              | 0.000296 (J)    |                 |                 |                 |              |
| 5/18/2021  | 0.000463 (J) |            | 0.00129      | 0.00078 (J)  |                 |                 |                 |                 |              |
| 5/24/2021  |              |            |              |              |                 |                 |                 |                 | 0.00119      |
| 10/18/2021 |              |            |              |              |                 |                 | 0.0013          | 0.00146         |              |
| 10/19/2021 |              |            |              |              | 0.0003 (J)      | 0.00135         |                 |                 |              |
| 10/26/2021 |              | 0.00165    | 0.00124      |              |                 |                 |                 |                 |              |
| 10/27/2021 | 0.00052 (J)  |            |              | 0.00087 (J)  |                 |                 |                 |                 |              |
| 11/2/2021  |              |            |              |              |                 |                 |                 |                 | 0.0013       |
| 5/23/2022  |              |            | 0.00124      |              |                 |                 |                 |                 |              |
| 5/24/2022  | 0.00023 (J)  | 0.00128    |              | 0.0007 (J)   |                 |                 |                 |                 |              |
| 5/25/2022  |              |            |              |              |                 |                 |                 |                 | 0.00126      |
| 5/31/2022  |              |            |              |              | 0.00033 (J)     | 0.0012          | 0.00139         | 0.00156         |              |
| 10/31/2022 | 0.000391 (J) |            | 0.000756 (J) | 0.000692 (J) |                 |                 |                 |                 |              |
| 11/1/2022  |              |            |              |              | 0.000212 (J)    | 0.00209         | 0.0012          | 0.00111         | 0.00131      |
| 11/2/2022  |              | 0.001 (J)  |              |              |                 |                 |                 |                 |              |

# Time Series

Constituent: Chromium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|           | BY-AP-MW-7V | BY-AP-MW-8 | BY-AP-MW-8V  | BY-AP-MW-9  | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|-----------|-------------|------------|--------------|-------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 4/3/2023  | 0.00059 (J) | 0.00115    | 0.000809 (J) |             |                 |                 |                 |                 | 0.0013       |
| 4/4/2023  |             |            |              | 0.00062 (J) |                 |                 |                 |                 |              |
| 4/12/2023 |             |            |              |             | 0.000215 (J)    | 0.00152         | 0.00138         | 0.00128         |              |

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

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-13V | BY-AP-MW-14 |
|------------|------------|-------------|--------------|-------------|-------------|--------------|-------------|--------------|-------------|
| 3/1/2016   |            | <0.005      |              | <0.005      |             |              |             |              |             |
| 3/2/2016   | <0.005     |             |              |             | 0.00235 (J) |              | <0.005      |              | <0.005      |
| 4/19/2016  | <0.005     |             |              |             |             |              |             |              |             |
| 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      |
| 8/30/2016  |            |             |              |             |             |              |             |              | <0.005      |
| 8/31/2016  | <0.005     | <0.005      |              | <0.005      | 0.00261 (J) |              | <0.005      |              |             |
| 10/18/2016 |            |             |              |             |             |              |             |              | <0.005      |
| 10/19/2016 | <0.005     | <0.005      |              | <0.005      | 0.00256 (J) |              | <0.005      |              |             |
| 1/31/2017  | <0.005     |             |              |             |             |              | <0.005      |              | <0.005      |
| 2/1/2017   |            | <0.005      |              | <0.005      | 0.00231 (J) |              |             |              |             |
| 5/2/2017   | <0.005     |             |              |             |             |              |             |              | <0.005      |
| 5/3/2017   |            | <0.005      |              | <0.005      | 0.00279 (J) |              | <0.005      |              |             |
| 6/6/2017   | <0.005     |             |              |             |             |              |             |              | <0.005      |
| 6/7/2017   |            | <0.005      |              | <0.005      | 0.00262 (J) |              | <0.005      |              |             |
| 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      |              |             |
| 1/8/2019   |            |             | <0.005       |             |             | <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     |             | <0.005       |             | 0.00303 (J) |              | <0.005      |              | <0.005      |
| 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   |            |             |              |             |             |              |             |              |             |
| 9/1/2020   | <0.005     | <0.005      | <0.005       | <0.005      | 0.0031 (J)  | <0.005       | <0.005      |              |             |
| 9/2/2020   |            |             |              |             |             |              |             | <0.005       | <0.005      |
| 5/11/2021  |            | 0.000636    |              |             |             |              |             |              |             |
| 5/18/2021  | 0.000996   |             | 0.000648     |             | 0.00336     | 0.00237      |             |              |             |
| 5/19/2021  |            |             |              | 0.00257     |             |              | 0.00113     | 0.000827     |             |
| 5/25/2021  |            |             |              |             |             |              |             |              | 0.00124     |
| 10/26/2021 |            |             |              |             |             |              | 0.00122     | 0.00114      |             |
| 10/27/2021 |            | 0.00065     | 0.00061      |             |             |              |             |              | 0.00125     |
| 11/1/2021  | 0.00091    |             |              |             | 0.0037      | 0.00231      |             |              |             |
| 11/2/2021  |            |             |              | 0.00118     |             |              |             |              |             |
| 5/23/2022  |            |             |              | 0.00118     | 0.00428     | 0.00255      |             |              |             |
| 5/24/2022  | 0.00091    | 0.00054     | 0.00062      |             |             |              | 0.00189     |              |             |
| 5/25/2022  |            |             |              |             |             |              |             | 0.00119      | 0.00125     |
| 11/1/2022  |            |             | 0.000667     | 0.00105     | 0.00406     | 0.00239      | 0.00274     | 0.00112      | 0.0012      |
| 11/2/2022  | 0.00102    | 0.000605    |              |             |             |              |             |              |             |
| 4/3/2023   | 0.00133    | 0.000622    | 0.000623     |             |             |              |             |              |             |
| 4/4/2023   |            |             |              | 0.000946    | 0.00309     | 0.00154      | 0.000801    | 0.00106      |             |
| 4/5/2023   |            |             |              |             |             |              |             |              | 0.00119     |

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-14V | BY-AP-MW-15 |
|------------|--------------|-------------|
| 3/1/2016   |              |             |
| 3/2/2016   |              | 0.0279      |
| 4/19/2016  |              | 0.0269      |
| 4/20/2016  |              |             |
| 6/8/2016   |              | 0.0293      |
| 8/30/2016  |              |             |
| 8/31/2016  |              | 0.0272      |
| 10/18/2016 |              |             |
| 10/19/2016 |              | 0.0285      |
| 1/31/2017  |              | 0.025       |
| 2/1/2017   |              |             |
| 5/2/2017   |              | 0.0274      |
| 5/3/2017   |              |             |
| 6/6/2017   |              | 0.0285      |
| 6/7/2017   |              |             |
| 1/22/2018  |              | 0.0273      |
| 1/23/2018  |              |             |
| 1/24/2018  |              |             |
| 5/1/2018   |              | 0.0298      |
| 5/2/2018   |              |             |
| 11/27/2018 |              | 0.0311      |
| 11/28/2018 |              |             |
| 1/8/2019   |              |             |
| 5/29/2019  |              | 0.0343      |
| 5/30/2019  |              |             |
| 9/30/2019  |              |             |
| 10/1/2019  |              | 0.0336      |
| 10/2/2019  |              |             |
| 3/30/2020  |              |             |
| 3/31/2020  |              |             |
| 4/1/2020   |              | 0.0344      |
| 9/1/2020   |              |             |
| 9/2/2020   | 0.00444 (J)  | 0.0385      |
| 5/11/2021  |              | 0.0349      |
| 5/18/2021  |              |             |
| 5/19/2021  |              |             |
| 5/25/2021  | 0.00271      |             |
| 10/26/2021 | 0.00419      | 0.0347      |
| 10/27/2021 |              |             |
| 11/1/2021  |              |             |
| 11/2/2021  |              |             |
| 5/23/2022  |              |             |
| 5/24/2022  | 0.00327      |             |
| 5/25/2022  |              | 0.0364      |
| 11/1/2022  | 0.00405      | 0.0357      |
| 11/2/2022  |              |             |
| 4/3/2023   |              | 0.0345      |
| 4/4/2023   | 0.00396      |             |
| 4/5/2023   |              |             |

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-15V | BY-AP-MW-16 | BY-AP-MW-16V | BY-AP-MW-17H | BY-AP-MW-17V | BY-AP-MW-18H | BY-AP-MW-19H | BY-AP-MW-1V | BY-AP-MW-2  |
|------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|
| 3/2/2016   |              | 0.0212      |              |              |              |              |              |             | 0.00842 (J) |
| 4/19/2016  |              | 0.018       |              |              |              |              |              |             | 0.008 (J)   |
| 6/8/2016   |              | 0.0176      |              |              |              |              |              |             | 0.00796 (J) |
| 8/31/2016  |              | 0.0134      |              |              |              |              |              |             | 0.00752 (J) |
| 10/19/2016 |              | 0.0193      |              |              |              |              |              |             | 0.00778 (J) |
| 1/31/2017  |              | 0.017       |              |              |              |              |              |             | 0.00647 (J) |
| 5/2/2017   |              | 0.0166      |              |              |              |              |              |             | 0.00686 (J) |
| 6/6/2017   |              | 0.0172      |              |              |              |              |              |             | 0.00694 (J) |
| 1/23/2018  |              | 0.00621 (J) |              |              |              |              |              |             |             |
| 1/24/2018  |              |             |              |              |              |              |              |             | 0.00592 (J) |
| 5/1/2018   |              | 0.0189      |              |              |              |              |              |             | 0.00693 (J) |
| 11/27/2018 |              | 0.0182      |              |              |              |              |              |             | 0.0066      |
| 1/8/2019   |              |             |              |              |              |              |              | 0.00911     |             |
| 3/20/2019  |              |             |              |              |              | <0.000203    |              |             |             |
| 5/29/2019  |              | 0.0206      |              |              |              |              |              |             | 0.00745     |
| 7/31/2019  | 0.0632       |             |              | <0.005       |              |              | <0.005       |             |             |
| 10/1/2019  | 0.0629       | 0.0107      |              |              |              | <0.000203    | <0.005       |             | 0.00696     |
| 10/2/2019  |              |             |              | 0.0033 (J)   |              |              |              | 0.00289 (J) |             |
| 3/30/2020  |              |             |              |              |              |              |              | <0.005      |             |
| 3/31/2020  |              | 0.0199      |              |              |              |              |              |             | 0.00716     |
| 4/1/2020   |              |             |              | <0.005       |              | 0.013        |              |             |             |
| 8/31/2020  |              |             |              |              |              |              |              |             | 0.00751     |
| 9/1/2020   | 0.0665       |             |              | 0.00258 (J)  | 0.022        | <0.000203    | <0.005       | 0.00407 (J) |             |
| 9/2/2020   |              | 0.0192      | 0.0163       |              |              |              |              |             |             |
| 5/17/2021  |              |             |              | 0.0013       |              |              |              |             |             |
| 5/18/2021  |              |             |              |              | 0.0197       |              |              | 0.00483     | 0.00746     |
| 5/19/2021  |              | 0.0182      | 0.0153       |              |              | 0.00109      |              |             |             |
| 5/25/2021  | 0.0694       |             |              |              |              |              | 0.00294      |             |             |
| 10/25/2021 |              |             |              | 0.00371      | 0.00915      | 0.00101      | 0.00501      |             |             |
| 10/26/2021 | 0.0757       |             | 0.0159       |              |              |              |              |             |             |
| 11/1/2021  |              | 0.0139      |              |              |              |              |              | 0.00578     | 0.00706     |
| 5/23/2022  |              |             |              |              |              | 0.00108      |              |             |             |
| 5/24/2022  | 0.0764       |             |              |              |              |              | 0.00513      | 0.00765     | 0.00582     |
| 5/25/2022  |              | 0.0155      | 0.0139       | 0.0013       | 0.0685       |              |              |             |             |
| 10/31/2022 |              |             |              | 0.00156      | 0.0967       | 0.000688     | 0.00053      |             |             |
| 11/1/2022  |              | 0.00812     | 0.0185       |              |              |              |              | 0.00928     |             |
| 11/2/2022  | 0.0748       |             |              |              |              |              |              |             | 0.00497     |
| 4/3/2023   |              |             |              |              |              |              |              |             | 0.0042      |
| 4/4/2023   |              |             | 0.0168       | 0.000596     | 0.13         |              |              | 0.00568     |             |
| 4/5/2023   |              | 0.00721     |              |              |              | <0.000203    |              |             |             |
| 4/24/2023  | 0.0817       |             |              |              |              |              | 0.00147      |             |             |

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | BY-AP-MW-20H | BY-AP-MW-20V |
|------------|--------------|--------------|
| 3/2/2016   |              |              |
| 4/19/2016  |              |              |
| 6/8/2016   |              |              |
| 8/31/2016  |              |              |
| 10/19/2016 |              |              |
| 1/31/2017  |              |              |
| 5/2/2017   |              |              |
| 6/6/2017   |              |              |
| 1/23/2018  |              |              |
| 1/24/2018  |              |              |
| 5/1/2018   |              |              |
| 11/27/2018 |              |              |
| 1/8/2019   |              |              |
| 3/20/2019  |              |              |
| 5/29/2019  |              |              |
| 7/31/2019  | 0.00433 (J)  |              |
| 10/1/2019  | 0.00431 (J)  |              |
| 10/2/2019  |              |              |
| 3/30/2020  |              |              |
| 3/31/2020  |              |              |
| 4/1/2020   | 0.00541      |              |
| 8/31/2020  |              |              |
| 9/1/2020   | 0.0046 (J)   | 0.012        |
| 9/2/2020   |              |              |
| 5/17/2021  |              |              |
| 5/18/2021  |              |              |
| 5/19/2021  | 0.00426      | 0.0173       |
| 5/25/2021  |              |              |
| 10/25/2021 |              |              |
| 10/26/2021 | 0.00447      |              |
| 11/1/2021  |              | 0.0236       |
| 5/23/2022  | 0.00423      |              |
| 5/24/2022  |              | 0.0264       |
| 5/25/2022  |              |              |
| 10/31/2022 | 0.00455      |              |
| 11/1/2022  |              | 0.0309       |
| 11/2/2022  |              |              |
| 4/3/2023   |              |              |
| 4/4/2023   |              |              |
| 4/5/2023   |              |              |
| 4/24/2023  | 0.00442      | 0.000458     |

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-22H | BY-AP-MW-23H | BY-AP-MW-23V | BY-AP-MW-24H | BY-AP-MW-25H | BY-AP-MW-3   | BY-AP-MW-4  | BY-AP-MW-5 | BY-AP-MW-5V |
|------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|------------|-------------|
| 3/1/2016   |              |              |              |              |              |              | <0.005      | <0.005     |             |
| 3/2/2016   |              |              |              |              |              | <0.005       |             |            |             |
| 4/19/2016  |              |              |              |              |              | <0.005       | <0.005      |            |             |
| 4/20/2016  |              |              |              |              |              |              |             | <0.005     |             |
| 6/7/2016   |              |              |              |              |              | <0.005       | 0.00424 (J) | <0.005     |             |
| 8/30/2016  |              |              |              |              |              |              | 0.00262 (J) | <0.005     |             |
| 8/31/2016  |              |              |              |              |              | <0.005       |             |            |             |
| 10/18/2016 |              |              |              |              |              |              |             | <0.005     |             |
| 10/19/2016 |              |              |              |              |              | <0.005       | 0.00469 (J) |            |             |
| 1/31/2017  |              |              |              |              |              | <0.005       | 0.0127 (O)  | <0.005     |             |
| 5/2/2017   |              |              |              |              |              | <0.005       | 0.00891 (J) |            |             |
| 5/3/2017   |              |              |              |              |              |              |             | <0.005     |             |
| 6/6/2017   |              |              |              |              |              | <0.005       | 0.00217 (J) |            |             |
| 6/7/2017   |              |              |              |              |              |              |             | <0.005     |             |
| 1/24/2018  |              |              |              |              |              | <0.005       | <0.005      | <0.005     |             |
| 5/1/2018   |              |              |              |              |              | <0.005       | 0.0126 (O)  |            |             |
| 5/2/2018   |              |              |              |              |              |              |             | <0.005     |             |
| 11/27/2018 |              |              |              |              |              | <0.005       | 0.00363 (J) | <0.005     |             |
| 11/28/2018 |              |              |              |              |              |              |             |            |             |
| 1/8/2019   |              |              |              | 0.00243 (J)  |              |              |             |            | <0.000203   |
| 5/29/2019  |              |              |              |              |              | <0.005       | 0.00549     | <0.005     |             |
| 7/31/2019  | 0.00233 (J)  | 0.0031 (J)   |              |              |              |              |             |            |             |
| 9/30/2019  |              |              |              |              |              |              |             |            |             |
| 10/1/2019  | 0.00268 (J)  | 0.00201 (J)  |              |              |              | <0.005       | <0.005      | <0.005     |             |
| 10/2/2019  |              |              |              | 0.00513      |              |              |             |            | <0.000203   |
| 3/30/2020  |              |              |              |              |              |              |             |            |             |
| 3/31/2020  |              |              |              | 0.00528      |              | <0.005       | 0.0205      | <0.005     | <0.000203   |
| 4/1/2020   |              | 0.0206       |              |              |              |              |             |            |             |
| 9/1/2020   | 0.00294 (J)  | 0.0273       | <0.0002      |              |              | <0.005       | 0.00657     | <0.005     | <0.000203   |
| 9/2/2020   |              |              |              | 0.0061       | 0.00246 (J)  |              |             |            |             |
| 5/17/2021  |              |              | 0.000217     |              |              |              |             |            |             |
| 5/18/2021  |              |              |              |              |              | 0.000196 (J) | 0.018       |            |             |
| 5/24/2021  |              | 0.00682      |              |              | 0.00156      |              |             |            |             |
| 5/25/2021  | 0.00264      |              |              | 0.00542      |              |              |             |            |             |
| 10/26/2021 | 0.00285      | 0.00495      | <0.0002      | 0.00591      |              |              |             |            |             |
| 10/27/2021 |              |              |              |              |              |              |             |            |             |
| 11/1/2021  |              |              |              |              |              | 0.00016 (J)  | 0.00478     |            |             |
| 11/2/2021  |              |              |              |              | 0.00146      |              |             | 0.00197    | 0.00013 (J) |
| 5/24/2022  | 0.0027       |              |              | 0.00571      |              |              |             |            |             |
| 5/25/2022  |              | 0.002        | <0.0002      |              | 0.00132      | 0.00028      | 0.00455     | 0.00184    | 0.00106     |
| 10/31/2022 | 0.00274      |              |              |              | 0.00135      |              | 0.00319     | 0.0015     | 9.5E-05 (J) |
| 11/1/2022  |              | 0.00076      | 0.000236     |              |              | 0.000152 (J) |             |            |             |
| 11/2/2022  |              |              |              | 0.00575      |              |              |             |            |             |
| 4/3/2023   |              |              |              | 0.00563      | 0.00113      |              |             |            |             |
| 4/4/2023   |              | 0.000522     | 0.0375       |              |              | 0.000108 (J) | 0.0031      | 0.00112    | <0.000203   |
| 4/24/2023  | 0.00275      |              |              |              |              |              |             |            |             |

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-6 | BY-AP-MW-7 |
|------------|------------|------------|
| 3/1/2016   | <0.005     | 0.011      |
| 3/2/2016   |            |            |
| 4/19/2016  | <0.005     |            |
| 4/20/2016  |            | 0.0148     |
| 6/7/2016   | <0.005     | 0.0172     |
| 8/30/2016  | <0.005     |            |
| 8/31/2016  |            | 0.0175     |
| 10/18/2016 |            |            |
| 10/19/2016 | <0.005     | 0.0189     |
| 1/31/2017  | <0.005     | 0.0165     |
| 5/2/2017   |            |            |
| 5/3/2017   | <0.005     | 0.0172     |
| 6/6/2017   |            |            |
| 6/7/2017   | <0.005     | 0.0173     |
| 1/24/2018  | <0.005     | 0.0158     |
| 5/1/2018   |            |            |
| 5/2/2018   | <0.005     | 0.0169     |
| 11/27/2018 |            |            |
| 11/28/2018 | <0.005     | 0.0178     |
| 1/8/2019   |            |            |
| 5/29/2019  | <0.005     | 0.0197     |
| 7/31/2019  |            |            |
| 9/30/2019  |            | 0.0186     |
| 10/1/2019  | <0.005     |            |
| 10/2/2019  |            |            |
| 3/30/2020  |            | 0.0172     |
| 3/31/2020  | <0.005     |            |
| 4/1/2020   |            |            |
| 9/1/2020   |            |            |
| 9/2/2020   | <0.005     | 0.0197     |
| 5/17/2021  | 0.000678   |            |
| 5/18/2021  |            | 0.0189     |
| 5/24/2021  |            |            |
| 5/25/2021  |            |            |
| 10/26/2021 |            |            |
| 10/27/2021 |            | 0.0206     |
| 11/1/2021  |            |            |
| 11/2/2021  | 0.0006     |            |
| 5/24/2022  |            | 0.023      |
| 5/25/2022  | 0.00098    |            |
| 10/31/2022 | 0.000588   | 0.00239    |
| 11/1/2022  |            |            |
| 11/2/2022  |            |            |
| 4/3/2023   |            | 0.00492    |
| 4/4/2023   | 0.000584   |            |
| 4/24/2023  |            |            |



# Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-7V  | BY-AP-MW-8 | BY-AP-MW-8V | BY-AP-MW-9 | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|------------|--------------|------------|-------------|------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 2/23/2016  |              |            |             |            | 0.0035 (J)      | <0.01           | <0.005          | <0.005          |              |
| 3/1/2016   |              | <0.005     |             | <0.005     |                 |                 |                 |                 |              |
| 4/19/2016  |              |            |             |            | 0.0038 (J)      | <0.01           | <0.005          | <0.005          |              |
| 4/20/2016  |              | <0.005     |             | <0.005     |                 |                 |                 |                 |              |
| 6/6/2016   |              |            |             |            | 0.00427 (J)     |                 |                 |                 | <0.005       |
| 6/7/2016   |              | <0.005     |             |            |                 | <0.01           | <0.005          |                 |              |
| 6/8/2016   |              |            |             | <0.005     |                 |                 |                 |                 |              |
| 8/30/2016  |              | <0.005     |             |            | 0.00348 (J)     | <0.01           | <0.005          | <0.005          |              |
| 8/31/2016  |              |            |             | <0.005     |                 |                 |                 |                 |              |
| 10/18/2016 |              | <0.005     |             |            | 0.00338 (J)     | <0.01           | <0.005          | <0.005          |              |
| 10/19/2016 |              |            |             | <0.005     |                 |                 |                 |                 |              |
| 1/31/2017  |              | <0.005     |             |            | 0.00308 (J)     | <0.01           | <0.005          | <0.005          |              |
| 2/1/2017   |              |            |             | <0.005     |                 |                 |                 |                 |              |
| 5/2/2017   |              |            |             |            | 0.00314 (J)     | <0.01           | <0.005          | <0.005          |              |
| 5/3/2017   |              | <0.005     |             | <0.005     |                 |                 |                 |                 |              |
| 6/6/2017   |              |            |             |            | 0.0036 (J)      | <0.01           | <0.005          | <0.005          |              |
| 6/7/2017   |              | <0.005     |             | <0.005     |                 |                 |                 |                 |              |
| 1/23/2018  |              |            |             | <0.005     | 0.00586 (J)     | 0.0021 (J)      | <0.005          | <0.005          |              |
| 1/24/2018  |              | <0.005     |             |            |                 |                 |                 |                 |              |
| 5/1/2018   |              |            |             |            |                 | <0.01           | <0.005          | <0.005          |              |
| 5/2/2018   |              | <0.005     |             | <0.005     | 0.00702 (J)     |                 |                 |                 |              |
| 11/26/2018 |              |            |             |            |                 |                 |                 |                 | <0.005       |
| 11/27/2018 |              | <0.005     |             |            | 0.0157          |                 | <0.005          |                 |              |
| 11/28/2018 |              |            |             | <0.005     |                 |                 |                 |                 |              |
| 1/9/2019   | <0.005       |            | <0.005      |            |                 |                 |                 |                 |              |
| 5/28/2019  |              |            |             |            |                 |                 |                 |                 | <0.005       |
| 5/29/2019  |              | <0.005     |             |            | 0.0109          | 0.00248 (J)     | <0.005          |                 |              |
| 5/30/2019  |              |            |             | <0.005     |                 |                 |                 |                 |              |
| 9/30/2019  |              | <0.005     |             | <0.005     |                 |                 |                 |                 |              |
| 10/1/2019  | <0.005       |            | <0.005      |            |                 |                 |                 |                 |              |
| 10/2/2019  |              |            |             |            | 0.0129          | 0.00244 (J)     | <0.005          | <0.005          |              |
| 3/30/2020  | <0.005       | <0.005     | <0.005      |            |                 |                 |                 |                 |              |
| 3/31/2020  |              |            |             | <0.005     | 0.0123          | 0.00224 (J)     | <0.005          | <0.005          |              |
| 9/2/2020   | <0.005       | <0.005     | <0.005      | <0.005     |                 |                 |                 |                 | <0.005       |
| 9/8/2020   |              |            |             |            |                 |                 |                 |                 | <0.005       |
| 9/9/2020   |              |            |             |            | 0.00697         | 0.00219 (J)     | <0.005          |                 |              |
| 5/11/2021  |              | 0.000778   |             |            |                 | 0.00194         | 0.00142         | 0.00137         |              |
| 5/12/2021  |              |            |             |            | 0.00611         |                 |                 |                 |              |
| 5/18/2021  | 0.000139 (J) |            | 0.000882    | 0.000725   |                 |                 |                 |                 |              |
| 5/24/2021  |              |            |             |            |                 |                 |                 |                 | 0.000422     |
| 10/18/2021 |              |            |             |            |                 |                 | 0.00146         | 0.00139         |              |
| 10/19/2021 |              |            |             |            | 0.00517         | 0.00192         |                 |                 |              |
| 10/26/2021 |              | 0.00079    | 0.00088     |            |                 |                 |                 |                 |              |
| 10/27/2021 | 0.00013 (J)  |            |             | 0.0007     |                 |                 |                 |                 |              |
| 11/2/2021  |              |            |             |            |                 |                 |                 |                 | 0.00037      |
| 5/23/2022  |              |            | 0.00092     |            |                 |                 |                 |                 |              |
| 5/24/2022  | 0.00011 (J)  | 0.00067    |             | 0.00069    |                 |                 |                 |                 |              |
| 5/25/2022  |              |            |             |            |                 |                 |                 |                 | 0.00028      |
| 5/31/2022  |              |            |             |            | 0.00487         | 0.00194         | 0.00149         | 0.0015          |              |
| 10/31/2022 | 7.8E-05 (J)  |            | 0.000614    | 0.000698   |                 |                 |                 |                 |              |
| 11/1/2022  |              |            |             |            | 0.00394         | 0.0016          | 0.00143         | 0.00169         | 0.000337     |
| 11/2/2022  |              | 0.00059    |             |            |                 |                 |                 |                 |              |

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|           | BY-AP-MW-7V  | BY-AP-MW-8   | BY-AP-MW-8V | BY-AP-MW-9 | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|-----------|--------------|--------------|-------------|------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 4/3/2023  | 0.000148 (J) | 0.000153 (J) | 0.000362    |            |                 |                 |                 |                 | 0.000304     |
| 4/4/2023  |              |              |             | 0.000737   |                 |                 |                 |                 |              |
| 4/12/2023 |              |              |             |            | 0.00398         | 0.00157         | 0.0013          | 0.00127         |              |

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

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-13V | BY-AP-MW-14 |
|------------|------------|-------------|--------------|-------------|-------------|--------------|-------------|--------------|-------------|
| 3/1/2016   |            | <3          |              | <3          |             |              |             |              |             |
| 3/2/2016   | <3         |             |              |             | <3          |              | <3          |              | <3          |
| 4/19/2016  | 3.0268     |             |              |             |             |              |             |              |             |
| 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       |
| 8/30/2016  |            |             |              |             |             |              |             |              | 0.693       |
| 8/31/2016  | 2.19       | 0.871       |              | 0.726       | 0.528       |              | 0.46 (U)    |              |             |
| 10/18/2016 |            |             |              |             |             |              |             |              | 0.626       |
| 10/19/2016 |            | 1.575 (D)   |              | 0.737       | 0.81        |              | 0.601       |              |             |
| 1/31/2017  | 1.23       |             |              |             |             |              | 1.1         |              | 0.0723 (U)  |
| 2/1/2017   |            | 1           |              | 0.766       | 1.11        |              |             |              |             |
| 5/2/2017   | 1.62       |             |              |             |             |              |             |              | 0.363 (U)   |
| 5/3/2017   |            | 1.07        |              | 0.515       | 0.639       |              | 0.832       |              |             |
| 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       |              |             |
| 1/8/2019   |            |             | 1.35         |             |             | 1.04         |             |              |             |
| 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       |             | 1.99         |             | 0.984       |              | 1.07        |              | 1.11        |
| 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   |            |             |              |             |             |              |             |              |             |
| 6/17/2020  |            |             |              |             |             |              |             | 1.22         |             |
| 5/11/2021  |            | 1.12 (U)    |              |             |             |              |             |              |             |
| 5/18/2021  | 2.99       |             | 1.66         |             | 1.11        | 1.31         |             |              |             |
| 5/19/2021  |            |             |              | 1.15        |             |              | 1.15        | 0.783 (U)    |             |
| 5/25/2021  |            |             |              |             |             |              |             |              | 0.978 (U)   |
| 10/26/2021 |            |             |              |             |             |              | 1.74        | 1.6          |             |
| 10/27/2021 |            | 1.2 (U)     | 1.44 (U)     |             |             |              |             |              | 0.587 (U)   |
| 11/1/2021  | 2.22       |             |              |             | 1.79        | 0.814 (U)    |             |              |             |
| 11/2/2021  |            |             |              | 0.504 (U)   |             |              |             |              |             |
| 5/23/2022  |            |             |              | 0.452 (U)   | 1.4         | 0.962 (U)    |             |              |             |
| 5/24/2022  | 2.12       | 1.36 (U)    | 1.2          |             |             |              | 0.915 (U)   |              |             |
| 5/25/2022  |            |             |              |             |             |              |             | 0.951 (U)    | 1.25        |
| 11/1/2022  |            |             | 1.34         | 1.03        | 0.672 (U)   | 0.816 (U)    | 0.569 (U)   | 0.933 (U)    | 0.528 (U)   |
| 11/2/2022  | 1.96       | 0.886 (U)   |              |             |             |              |             |              |             |
| 4/3/2023   | 1.84       | 0.75 (U)    | 1.24         |             |             |              |             |              |             |
| 4/4/2023   |            |             |              | 0.562 (U)   | 1.42        | 1.48         | 0.885 (U)   | 0.957 (U)    |             |
| 4/5/2023   |            |             |              |             |             |              |             |              | 0.746 (U)   |

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-14V | BY-AP-MW-15 |
|------------|--------------|-------------|
| 3/1/2016   |              |             |
| 3/2/2016   |              | <3          |
| 4/19/2016  |              | <3          |
| 4/20/2016  |              |             |
| 6/7/2016   |              |             |
| 6/8/2016   |              | 0.557       |
| 8/30/2016  |              |             |
| 8/31/2016  |              | 0.765       |
| 10/18/2016 |              |             |
| 10/19/2016 |              | 0.654       |
| 1/31/2017  |              | 0.402 (U)   |
| 2/1/2017   |              |             |
| 5/2/2017   |              | 0.578       |
| 5/3/2017   |              |             |
| 6/6/2017   |              | 0.128 (U)   |
| 6/7/2017   |              |             |
| 1/22/2018  |              | 0.768 (U)   |
| 1/23/2018  |              |             |
| 1/24/2018  |              |             |
| 5/1/2018   |              | 0.651       |
| 5/2/2018   |              |             |
| 11/27/2018 |              | 0.764       |
| 11/28/2018 |              |             |
| 1/8/2019   |              |             |
| 5/29/2019  |              | 0.433       |
| 5/30/2019  |              |             |
| 9/30/2019  |              |             |
| 10/1/2019  |              | 0.988       |
| 10/2/2019  |              |             |
| 3/30/2020  |              |             |
| 3/31/2020  |              |             |
| 4/1/2020   |              | 0.527       |
| 6/17/2020  | 0.726        |             |
| 5/11/2021  |              | 0.684 (U)   |
| 5/18/2021  |              |             |
| 5/19/2021  |              |             |
| 5/25/2021  | 0.859 (U)    |             |
| 10/26/2021 | 1.34 (U)     | 1.95        |
| 10/27/2021 |              |             |
| 11/1/2021  |              |             |
| 11/2/2021  |              |             |
| 5/23/2022  |              |             |
| 5/24/2022  | 1.26         |             |
| 5/25/2022  |              | 1.3         |
| 11/1/2022  | 1.38         | 1.15        |
| 11/2/2022  |              |             |
| 4/3/2023   |              | 1.63        |
| 4/4/2023   | 1.23 (U)     |             |
| 4/5/2023   |              |             |

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-15V | BY-AP-MW-16 | BY-AP-MW-16V | BY-AP-MW-17H | BY-AP-MW-17V | BY-AP-MW-18H | BY-AP-MW-19H | BY-AP-MW-1V | BY-AP-MW-2  |
|------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|
| 3/2/2016   |              | <3          |              |              |              |              |              |             | <3          |
| 4/19/2016  |              | <3          |              |              |              |              |              |             | <3          |
| 6/8/2016   |              | 0.344 (U)   |              |              |              |              |              |             | 0.121 (U)   |
| 8/31/2016  |              | 0.582       |              |              |              |              |              |             | 0.348 (U)   |
| 10/19/2016 |              | 0.448       |              |              |              |              |              |             | 0.48        |
| 1/31/2017  |              | 0.653       |              |              |              |              |              |             | 0.00333 (U) |
| 5/2/2017   |              | 0.698       |              |              |              |              |              |             | 0.4 (U)     |
| 6/6/2017   |              | 0.548       |              |              |              |              |              |             | 0.083 (U)   |
| 1/23/2018  |              | 0.98 (U)    |              |              |              |              |              |             |             |
| 1/24/2018  |              |             |              |              |              |              |              |             | 0.404 (U)   |
| 5/1/2018   |              | 0.623       |              |              |              |              |              |             | 0.457       |
| 11/27/2018 |              | 0.744       |              |              |              |              |              |             | 0.359 (U)   |
| 1/8/2019   |              |             |              |              |              |              |              | 1.06        |             |
| 5/29/2019  |              | 2.51        |              |              |              |              |              |             | 1.18        |
| 7/31/2019  | 1.09 (D)     |             |              | 0.621 (D)    |              |              | 0.272 (UD)   |             |             |
| 10/1/2019  | 1.51         | 0.443 (U)   |              |              |              | 0.6          | 0.817        |             | 0.284 (U)   |
| 10/2/2019  |              |             |              | 1.14         |              |              |              | 1.03        |             |
| 3/30/2020  |              |             |              |              |              |              |              | 0.579       |             |
| 3/31/2020  |              | 0.341 (U)   |              |              |              |              |              |             | 0.699       |
| 4/1/2020   |              |             |              | 0.797        |              | 1.05         |              |             |             |
| 5/12/2020  | 1.67         |             |              |              |              |              | 0.691        |             |             |
| 6/16/2020  |              |             | 0.642        |              | 2.17         |              |              |             |             |
| 6/17/2020  |              |             |              |              |              |              |              |             |             |
| 5/17/2021  |              |             |              | 1.64         |              |              |              |             |             |
| 5/18/2021  |              |             |              |              | 1.05 (U)     |              |              | 0.814 (U)   | 0.72 (U)    |
| 5/19/2021  |              | 0.321 (U)   | 0.496 (U)    |              |              | 0.971 (U)    |              |             |             |
| 5/25/2021  | 1.72         |             |              |              |              |              | 1.04 (U)     |             |             |
| 10/25/2021 |              |             |              | 1.57         | 1.04 (U)     | 1.2          | 1.03 (U)     |             |             |
| 10/26/2021 | 2.53         |             | 0.773 (U)    |              |              |              |              |             |             |
| 11/1/2021  |              | 1.28        |              |              |              |              |              | 1.3 (U)     | 0.523 (U)   |
| 5/23/2022  |              |             |              |              |              | 1.03 (U)     |              |             |             |
| 5/24/2022  | 1.85         |             |              |              |              |              | 1.06 (U)     | 2           | 0.732 (U)   |
| 5/25/2022  |              | 0.927 (U)   | 1.03 (U)     | 1.71         | 5.37         |              |              |             |             |
| 10/31/2022 |              |             |              | 0.928 (U)    | 5.26         | 0.691 (U)    | 1.11         |             |             |
| 11/1/2022  |              | 1.09        | 0.705 (U)    |              |              |              |              | 1.35        |             |
| 11/2/2022  | 1.46         |             |              |              |              |              |              |             | 0.366 (U)   |
| 4/3/2023   |              |             |              |              |              |              |              |             | 0.24 (U)    |
| 4/4/2023   |              |             | 1.07         | 1.09 (U)     | 9.59         |              |              | 1.62        |             |
| 4/5/2023   |              | 1.5         |              |              |              | 0.675 (U)    |              |             |             |
| 4/24/2023  | 2.02         |             |              |              |              |              | 1.35         |             |             |

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-20H | BY-AP-MW-20V |
|------------|--------------|--------------|
| 3/2/2016   |              |              |
| 4/19/2016  |              |              |
| 6/8/2016   |              |              |
| 8/31/2016  |              |              |
| 10/19/2016 |              |              |
| 1/31/2017  |              |              |
| 5/2/2017   |              |              |
| 6/6/2017   |              |              |
| 1/23/2018  |              |              |
| 1/24/2018  |              |              |
| 5/1/2018   |              |              |
| 11/27/2018 |              |              |
| 1/8/2019   |              |              |
| 5/29/2019  |              |              |
| 7/31/2019  | 0.268 (UD)   |              |
| 10/1/2019  | 1.22         |              |
| 10/2/2019  |              |              |
| 3/30/2020  |              |              |
| 3/31/2020  |              |              |
| 4/1/2020   | 0.968        |              |
| 5/12/2020  |              |              |
| 6/16/2020  |              |              |
| 6/17/2020  |              | 0.767        |
| 5/17/2021  |              |              |
| 5/18/2021  |              |              |
| 5/19/2021  | 1.03 (U)     | 1.43         |
| 5/25/2021  |              |              |
| 10/25/2021 |              |              |
| 10/26/2021 | 1.28 (U)     |              |
| 11/1/2021  |              | 1.48         |
| 5/23/2022  | 0.657 (U)    |              |
| 5/24/2022  |              | 0.97 (U)     |
| 5/25/2022  |              |              |
| 10/31/2022 | 1.15         |              |
| 11/1/2022  |              | 0.873        |
| 11/2/2022  |              |              |
| 4/3/2023   |              |              |
| 4/4/2023   |              |              |
| 4/5/2023   |              |              |
| 4/24/2023  | 1.17         | 0.605 (U)    |

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-22H | BY-AP-MW-23H | BY-AP-MW-23V | BY-AP-MW-24H | BY-AP-MW-25H | BY-AP-MW-3 | BY-AP-MW-4 | BY-AP-MW-5 | BY-AP-MW-5V |
|------------|--------------|--------------|--------------|--------------|--------------|------------|------------|------------|-------------|
| 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       |             |
| 11/28/2018 |              |              |              |              |              |            |            |            |             |
| 1/8/2019   |              |              |              | 1.49         |              |            |            |            | 0.298 (U)   |
| 5/29/2019  |              |              |              |              |              | 2.31       | 0.947      | 2.16       |             |
| 7/31/2019  | 0.448 (D)    | 0.331 (UD)   |              |              |              |            |            |            |             |
| 9/30/2019  |              |              |              |              |              |            |            |            |             |
| 10/1/2019  | 0.508        | 1.05         |              |              |              | 1.52       | 0.7        | 2.14       |             |
| 10/2/2019  |              |              |              | 1.24         |              |            |            |            | 0.206 (U)   |
| 3/30/2020  |              |              |              |              |              |            |            |            |             |
| 3/31/2020  |              |              |              | 0.577        |              | 0.478 (U)  | 0.323 (U)  | 0.754      | 0.024 (U)   |
| 4/1/2020   |              | 0.618        |              |              |              |            |            |            |             |
| 5/12/2020  | 0.61         |              |              |              |              |            |            |            |             |
| 6/16/2020  |              |              | 0.752 (U)    |              |              |            |            |            |             |
| 6/17/2020  |              |              |              |              | 0.554        |            |            |            |             |
| 5/17/2021  |              |              | 0.374 (U)    |              |              |            |            |            |             |
| 5/18/2021  |              |              |              |              |              | 0.749 (U)  | 0.734 (U)  |            |             |
| 5/24/2021  |              | 1.1 (U)      |              |              | 0.545 (U)    |            |            |            |             |
| 5/25/2021  | 1.26         |              |              | 0.695 (U)    |              |            |            |            |             |
| 10/26/2021 | 1.52         | 1.13 (U)     | 0.285 (U)    | 0.987 (U)    |              |            |            |            |             |
| 10/27/2021 |              |              |              |              |              |            |            |            |             |
| 11/1/2021  |              |              |              |              |              | 0.688 (U)  | 0.888 (U)  |            |             |
| 11/2/2021  |              |              |              |              | 0.707 (U)    |            |            | 2.06       | 0.158 (U)   |
| 5/24/2022  | 0.656 (U)    |              |              | 1.08 (U)     |              |            |            |            |             |
| 5/25/2022  |              | 0.674 (U)    | 0.285 (U)    |              | 0.682 (U)    | 1.72       | 0.821 (U)  | 1.71       | 1.03 (U)    |
| 10/31/2022 | 0.454 (U)    |              |              |              | 0.793 (U)    |            | 0.927      | 0.75 (U)   | 0.7 (U)     |
| 11/1/2022  |              | 0.583 (U)    | 0.656 (U)    |              |              | 0.505 (U)  |            |            |             |
| 11/2/2022  |              |              |              | 1.05         |              |            |            |            |             |
| 4/3/2023   |              |              |              | 1.46         | 0.724 (U)    |            |            |            |             |
| 4/4/2023   |              | 0.92 (U)     | 1.91         |              |              | 0.479 (U)  | 1.82       | 1.15       | 1.13 (U)    |
| 4/24/2023  | 1 (U)        |              |              |              |              |            |            |            |             |

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-6  | BY-AP-MW-7 |
|------------|-------------|------------|
| 3/1/2016   | <3          | <3         |
| 3/2/2016   |             |            |
| 4/19/2016  | <3          |            |
| 4/20/2016  |             | <3         |
| 6/7/2016   | 0.353 (U)   | 0.555 (U)  |
| 8/30/2016  | 0.428 (U)   |            |
| 8/31/2016  |             | 0.284 (U)  |
| 10/18/2016 |             |            |
| 10/19/2016 | 0.449 (U)   | 0.557 (U)  |
| 1/31/2017  | -0.0173 (U) | 0.0949 (U) |
| 5/2/2017   |             |            |
| 5/3/2017   | 0.447       | 0.53       |
| 6/6/2017   |             |            |
| 6/7/2017   | 0.572       | -0.231 (U) |
| 1/24/2018  | 1.09 (U)    | 0.691 (U)  |
| 5/1/2018   |             |            |
| 5/2/2018   | 0.187 (U)   | 0.535      |
| 11/27/2018 |             |            |
| 11/28/2018 | 0.478 (U)   | 0.62       |
| 1/8/2019   |             |            |
| 5/29/2019  | -0.276 (U)  | 0.244 (U)  |
| 7/31/2019  |             |            |
| 9/30/2019  |             | 0.388 (U)  |
| 10/1/2019  | 0.742       |            |
| 10/2/2019  |             |            |
| 3/30/2020  |             | 0.744      |
| 3/31/2020  | 0.291 (U)   |            |
| 4/1/2020   |             |            |
| 5/12/2020  |             |            |
| 6/16/2020  |             |            |
| 6/17/2020  |             |            |
| 5/17/2021  | 1.84        |            |
| 5/18/2021  |             | 0.597 (U)  |
| 5/24/2021  |             |            |
| 5/25/2021  |             |            |
| 10/26/2021 |             |            |
| 10/27/2021 |             | 1.46 (U)   |
| 11/1/2021  |             |            |
| 11/2/2021  | 0.773 (U)   |            |
| 5/24/2022  |             | 1.05 (U)   |
| 5/25/2022  | 1.06 (U)    |            |
| 10/31/2022 | 0.925       | 0.932      |
| 11/1/2022  |             |            |
| 11/2/2022  |             |            |
| 4/3/2023   |             | 0.49 (U)   |
| 4/4/2023   | 1.33        |            |
| 4/24/2023  |             |            |



# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-7V | BY-AP-MW-8 | BY-AP-MW-8V | BY-AP-MW-9 | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|------------|-------------|------------|-------------|------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 2/23/2016  |             |            |             |            | 2.8971 (U)      | 3 (U)           | 3 (U)           | 2.1138          |              |
| 3/1/2016   |             | <3         |             | <3         |                 |                 |                 |                 |              |
| 4/19/2016  |             |            |             |            | 3 (U)           | 3 (U)           | 3 (U)           | 3 (U)           |              |
| 4/20/2016  |             | <3         |             | <3         |                 |                 |                 |                 |              |
| 6/6/2016   |             |            |             |            | 0.841           |                 |                 | 0.757           |              |
| 6/7/2016   |             | 0.853      |             |            |                 | 0.652           | 0.342 (U)       |                 |              |
| 6/8/2016   |             |            |             | 0.837      |                 |                 |                 |                 |              |
| 8/30/2016  |             | 0.669      |             |            | 1.74            | 0.411 (U)       | 0.702           | 0.992           |              |
| 8/31/2016  |             |            |             | 0.917      |                 |                 |                 |                 |              |
| 10/18/2016 |             | 1.32       |             |            | 1.47            | 1               | 0.791           | 0.905           |              |
| 10/19/2016 |             |            |             | 1.41       |                 |                 |                 |                 |              |
| 1/31/2017  |             | 0.801      |             |            | 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   |             | 0.648      |             | 1.33       |                 |                 |                 |                 |              |
| 6/6/2017   |             |            |             |            | 1.04            | 0.639           | 0.748           | 1.1             |              |
| 6/7/2017   |             | 0.408 (U)  |             | 0.758      |                 |                 |                 |                 |              |
| 1/23/2018  |             |            |             | 1.06 (U)   | 0.513 (U)       | 0.669 (U)       | 0.558 (U)       | 1.32 (U)        |              |
| 1/24/2018  |             | 0.706 (U)  |             |            |                 |                 |                 |                 |              |
| 5/1/2018   |             |            |             |            |                 | 1.06            | 0.296 (U)       | 1.19            |              |
| 5/2/2018   |             | 0.572      |             | 0.983      | 0.916           |                 |                 |                 |              |
| 11/26/2018 |             |            |             |            |                 |                 |                 | 0.863           |              |
| 11/27/2018 |             | 0.687      |             |            | 1.37            | 0.636           | 0.357 (U)       |                 |              |
| 11/28/2018 |             |            |             | 0.747      |                 |                 |                 |                 |              |
| 1/9/2019   | 0.527       |            | 1.69        |            |                 |                 |                 |                 |              |
| 5/28/2019  |             |            |             |            |                 |                 |                 | 0.474 (U)       |              |
| 5/29/2019  |             | 0.627 (U)  |             |            | 1.57            | 0.579 (U)       | 0.275 (U)       |                 |              |
| 5/30/2019  |             |            |             | 1.08       |                 |                 |                 |                 |              |
| 9/30/2019  |             | 0.321 (U)  |             | 0.58       |                 |                 |                 |                 |              |
| 10/1/2019  | 1.01        |            | 1.66        |            |                 |                 |                 |                 |              |
| 10/2/2019  |             |            |             |            | 0.905           | 1.33            | 0.458 (U)       | 0.624 (U)       |              |
| 3/30/2020  | 0.604       | 0.6        | 0.787       |            |                 |                 |                 |                 |              |
| 3/31/2020  |             |            |             | 0.82       | 1.77            | 0.814           | 0.941           | 1.09            |              |
| 6/17/2020  |             |            |             |            |                 |                 |                 |                 | 0.479        |
| 5/11/2021  |             | 0.648 (U)  |             |            |                 | 0.945 (U)       | 0.521 (U)       | 0.969 (U)       |              |
| 5/12/2021  |             |            |             |            | 0.639 (U)       |                 |                 |                 |              |
| 5/18/2021  | 0.199 (U)   |            | 0.975 (U)   | 0.98 (U)   |                 |                 |                 |                 |              |
| 5/24/2021  |             |            |             |            |                 |                 |                 |                 | 0.531 (U)    |
| 10/18/2021 |             |            |             |            |                 |                 | 1.75            | 2.19            |              |
| 10/19/2021 |             |            |             |            | 1.77            | 1.85            |                 |                 |              |
| 10/26/2021 |             | 1.61       | 1.61        |            |                 |                 |                 |                 |              |
| 10/27/2021 | 0.914 (U)   |            |             | 1.07 (U)   |                 |                 |                 |                 |              |
| 11/2/2021  |             |            |             |            |                 |                 |                 |                 | 1.05 (U)     |
| 5/23/2022  |             |            | 1.13        |            |                 |                 |                 |                 |              |
| 5/24/2022  | 0.619 (U)   | 0.733 (U)  |             | 2.11       |                 |                 |                 |                 |              |
| 5/25/2022  |             |            |             |            |                 |                 |                 |                 | 0.527 (U)    |
| 5/31/2022  |             |            |             |            | 1.34            | 1.38            | 1.67            | 1.47            |              |
| 10/31/2022 | 0.332 (U)   |            | 1.12        | 1.64       |                 |                 |                 |                 |              |
| 11/1/2022  |             |            |             |            | 1.11            | 1               | 0.53 (U)        | 1.36            | 0.545 (U)    |
| 11/2/2022  |             | 0.503 (U)  |             |            |                 |                 |                 |                 |              |
| 4/3/2023   | 0.856 (U)   | 1.21       | 0.795 (U)   |            |                 |                 |                 |                 | 1.32         |
| 4/4/2023   |             |            |             | 1.05 (U)   |                 |                 |                 |                 |              |

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|           | BY-AP-MW-7V | BY-AP-MW-8 | BY-AP-MW-8V | BY-AP-MW-9 | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|-----------|-------------|------------|-------------|------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 4/12/2023 |             |            |             |            | 1.03 (U)        | 1.07            | 1.28            | 1.17            |              |

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

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-13V | BY-AP-MW-14 |
|------------|------------|-------------|--------------|-------------|-------------|--------------|-------------|--------------|-------------|
| 3/1/2016   |            | 0.02 (J)    |              | 0.06 (J)    |             |              |             |              |             |
| 3/2/2016   | 0.03 (J)   |             |              |             | 0.04 (J)    |              | 0.05 (J)    |              | 0.07 (J)    |
| 4/19/2016  | 0.052 (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)   |
| 8/30/2016  |            |             |              |             |             |              |             |              | 0.083 (J)   |
| 8/31/2016  | 0.043 (J)  | 0.04 (J)    |              | 0.064 (J)   | 0.059 (J)   |              | 0.062 (J)   |              |             |
| 10/18/2016 |            |             |              |             |             |              |             |              | 0.067 (J)   |
| 10/19/2016 | <0.1       | 0.03 (J)    |              | 0.05 (J)    | 0.045 (J)   |              | 0.049 (J)   |              |             |
| 3/21/2017  | 0.04 (J)   |             |              |             |             |              |             |              |             |
| 3/22/2017  |            | <0.125      |              | 0.05 (J)    | 0.04 (J)    |              | 0.05 (J)    |              | 0.06 (J)    |
| 5/2/2017   | 0.05 (J)   |             |              |             |             |              |             |              | 0.08 (J)    |
| 5/3/2017   |            | 0.04 (J)    |              | 0.06 (J)    | 0.06 (J)    |              | 0.06 (J)    |              |             |
| 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  |            | <0.125      |              | 0.06 (J)    | 0.05 (J)    |              |             |              | 0.08 (J)    |
| 1/24/2018  | 0.05 (J)   |             |              |             |             |              |             |              |             |
| 5/1/2018   | 0.05 (J)   |             |              |             |             |              |             |              |             |
| 5/2/2018   |            | <0.125      |              | 0.06 (J)    | 0.06 (J)    |              | 0.07 (J)    |              | 0.08 (J)    |
| 11/27/2018 |            |             |              |             |             |              |             |              | 0.06 (J)    |
| 11/28/2018 | <0.1       | <0.125      |              | 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)  |
| 5/30/2019  |            | 0.0573 (J)  |              |             |             |              |             |              |             |
| 9/30/2019  |            | <0.125      |              | 0.0733 (J)  |             |              |             |              |             |
| 10/1/2019  | 0.0744 (J) |             | 0.0517 (J)   |             | 0.0682 (J)  |              | 0.0703 (J)  |              | 0.0885 (J)  |
| 10/2/2019  |            |             |              |             |             | 0.12         |             |              |             |
| 3/30/2020  | 0.0726 (J) |             |              |             |             |              |             |              |             |
| 3/31/2020  |            | <0.125      | <0.125       | 0.078 (J)   | 0.0755 (J)  | 0.0828 (J)   | 0.0665 (J)  |              | 0.0867 (J)  |
| 4/1/2020   |            |             |              |             |             |              |             |              |             |
| 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   |            |             |              |             |             |              |             | 0.0864 (J)   | 0.0957 (J)  |
| 5/11/2021  |            | 0.105       |              |             |             |              |             |              |             |
| 5/18/2021  | 0.0884 (J) |             | <0.125       |             | 0.0614 (J)  | 0.0783 (J)   |             |              |             |
| 5/19/2021  |            |             |              | 0.0994 (J)  |             |              | 0.0748 (J)  | 0.0884 (J)   |             |
| 5/25/2021  |            |             |              |             |             |              |             |              | 0.0957 (J)  |
| 10/26/2021 |            |             |              |             |             |              | 0.0641 (J)  | 0.096 (J)    |             |
| 10/27/2021 |            | <0.125      | <0.125       |             |             |              |             |              | 0.0651 (J)  |
| 11/1/2021  | 0.181      |             |              |             | 0.0928 (J)  | 0.123        |             |              |             |
| 11/2/2021  |            |             |              | 0.101       |             |              |             |              |             |
| 5/23/2022  |            |             |              | 0.0709 (J)  | 0.0873 (J)  | <0.125       |             |              |             |
| 5/24/2022  | 0.0801 (J) | <0.125      | <0.125       |             |             |              | 0.0769 (J)  |              |             |
| 5/25/2022  |            |             |              |             |             |              |             | <0.125       | 0.0733 (J)  |
| 11/1/2022  |            |             | 0.0602 (J)   | 0.0612 (J)  | 0.0695 (J)  | 0.13         | 0.13        | 0.069 (J)    | 0.0685 (J)  |
| 11/2/2022  | 0.0665 (J) | <0.125      |              |             |             |              |             |              |             |
| 4/3/2023   | 0.0717 (J) | <0.125      | <0.125       |             |             |              |             |              |             |
| 4/4/2023   |            |             |              | 0.126       | 0.081 (J)   | 0.126        | 0.187       | 0.0687 (J)   |             |
| 4/5/2023   |            |             |              |             |             |              |             |              | 0.127       |

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-14V | BY-AP-MW-15 |
|------------|--------------|-------------|
| 3/1/2016   |              |             |
| 3/2/2016   |              | 0.18 (J)    |
| 4/19/2016  |              | 0.21 (J)    |
| 4/20/2016  |              |             |
| 6/8/2016   |              | 0.223 (J)   |
| 8/30/2016  |              |             |
| 8/31/2016  |              | 0.196 (J)   |
| 10/18/2016 |              |             |
| 10/19/2016 |              | 0.166 (J)   |
| 3/21/2017  |              | 0.18        |
| 3/22/2017  |              |             |
| 5/2/2017   |              | 0.18        |
| 5/3/2017   |              |             |
| 6/6/2017   |              | 0.18        |
| 6/7/2017   |              |             |
| 9/13/2017  |              | <0.1 (U*)   |
| 9/14/2017  |              |             |
| 1/22/2018  |              | 0.19        |
| 1/23/2018  |              |             |
| 1/24/2018  |              |             |
| 5/1/2018   |              | 0.19        |
| 5/2/2018   |              |             |
| 11/27/2018 |              | 0.18        |
| 11/28/2018 |              |             |
| 1/8/2019   |              |             |
| 5/29/2019  |              | 0.168       |
| 5/30/2019  |              |             |
| 9/30/2019  |              |             |
| 10/1/2019  |              | 0.185       |
| 10/2/2019  |              |             |
| 3/30/2020  |              |             |
| 3/31/2020  |              |             |
| 4/1/2020   |              | 0.187       |
| 9/1/2020   |              |             |
| 9/2/2020   | 0.359        | 0.18        |
| 5/11/2021  |              | 0.214       |
| 5/18/2021  |              |             |
| 5/19/2021  |              |             |
| 5/25/2021  | 0.378        |             |
| 10/26/2021 | 0.384        | 0.171       |
| 10/27/2021 |              |             |
| 11/1/2021  |              |             |
| 11/2/2021  |              |             |
| 5/23/2022  |              |             |
| 5/24/2022  | 0.291        |             |
| 5/25/2022  |              | 0.214       |
| 11/1/2022  | 0.275        | 0.177       |
| 11/2/2022  |              |             |
| 4/3/2023   |              | 0.26        |
| 4/4/2023   | 0.302        |             |
| 4/5/2023   |              |             |

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-15V | BY-AP-MW-16 | BY-AP-MW-16V | BY-AP-MW-17H | BY-AP-MW-17V | BY-AP-MW-18H | BY-AP-MW-19H | BY-AP-MW-1V | BY-AP-MW-2 |
|------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|-------------|------------|
| 3/2/2016   |              | 0.04 (J)    |              |              |              |              |              |             | 0.04 (J)   |
| 4/19/2016  |              | 0.05 (J)    |              |              |              |              |              |             | 0.038 (J)  |
| 6/8/2016   |              | 0.073 (J)   |              |              |              |              |              |             | 0.067 (J)  |
| 8/31/2016  |              | 0.051 (J)   |              |              |              |              |              |             | 0.05 (J)   |
| 10/19/2016 |              | <0.125      |              |              |              |              |              |             | <0.125     |
| 3/21/2017  |              | 0.04 (J)    |              |              |              |              |              |             | <0.125     |
| 5/2/2017   |              | 0.05 (J)    |              |              |              |              |              |             | 0.04 (J)   |
| 6/6/2017   |              | 0.053 (J)   |              |              |              |              |              |             | 0.04 (J)   |
| 9/12/2017  |              |             |              |              |              |              |              |             | 0.037 (J)  |
| 9/13/2017  |              | <0.125 (U*) |              |              |              |              |              |             |            |
| 1/23/2018  |              | 0.05 (J)    |              |              |              |              |              |             |            |
| 1/24/2018  |              |             |              |              |              |              |              |             | <0.125     |
| 5/1/2018   |              | 0.05 (J)    |              |              |              |              |              |             | <0.125     |
| 11/27/2018 |              | <0.125      |              |              |              |              |              |             | <0.125     |
| 1/8/2019   |              |             |              |              |              |              |              | 0.0548 (J)  |            |
| 3/20/2019  |              |             |              |              |              | 0.215        |              |             |            |
| 5/29/2019  |              | 0.0683 (J)  |              |              |              |              |              |             | <0.125     |
| 7/31/2019  | 0.0515 (J)   |             |              | 0.178        |              |              | 0.153        |             |            |
| 10/1/2019  | 0.0931 (J)   | 0.0774 (J)  |              |              |              | 0.071 (J)    | 0.0712 (J)   |             | <0.125     |
| 10/2/2019  |              |             |              | 0.254        |              |              |              | 0.0595 (J)  |            |
| 3/30/2020  |              |             |              |              |              |              |              | <0.125      |            |
| 3/31/2020  |              | 0.0602 (J)  |              |              |              |              |              |             | <0.125     |
| 4/1/2020   |              |             |              | 0.151        |              | 0.0722 (J)   |              |             |            |
| 8/31/2020  |              |             |              |              |              |              |              |             | <0.125     |
| 9/1/2020   | 0.0624 (J)   |             |              | 0.196        | 0.144        | 0.0784 (J)   | 0.0752 (J)   | <0.125      |            |
| 9/2/2020   |              | <0.125      | <0.125       |              |              |              |              |             |            |
| 5/17/2021  |              |             |              | 0.148        |              |              |              |             |            |
| 5/18/2021  |              |             |              |              | 0.16         |              |              | <0.125      | <0.125     |
| 5/19/2021  |              | 0.0793 (J)  | <0.125       |              |              | 0.0886 (J)   |              |             |            |
| 5/25/2021  | <0.125       |             |              |              |              |              | 0.0673 (J)   |             |            |
| 10/25/2021 |              |             |              | 0.162        | 0.172        | 0.11         | <0.125       |             |            |
| 10/26/2021 | 0.0808 (J)   |             | <0.125       |              |              |              |              |             |            |
| 11/1/2021  |              | 0.0887 (J)  |              |              |              |              |              | <0.125      | <0.125     |
| 5/23/2022  |              |             |              |              |              | 0.0857 (J)   |              |             |            |
| 5/24/2022  | <0.125 (D)   |             |              |              |              |              | <0.125       | <0.125      | <0.125     |
| 5/25/2022  |              | <0.125      | <0.125       | 0.138        | 0.0799 (J)   |              |              |             |            |
| 10/31/2022 |              |             |              | 0.135        | 0.118 (J)    | 0.148        | <0.125       |             |            |
| 11/1/2022  |              | 0.112 (J)   | <0.125       |              |              |              |              | <0.125      |            |
| 11/2/2022  | <0.125       |             |              |              |              |              |              |             | 0.0711 (J) |
| 4/3/2023   |              |             |              |              |              |              |              |             | <0.125     |
| 4/4/2023   |              |             | <0.125       | 0.176        | 0.108 (J)    |              |              | <0.125      |            |
| 4/5/2023   |              | 0.144       |              |              |              | 0.0765 (J)   |              |             |            |
| 4/24/2023  | <0.125       |             |              |              |              |              | 0.083 (J)    |             |            |

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-20H | BY-AP-MW-20V |
|------------|--------------|--------------|
| 3/2/2016   |              |              |
| 4/19/2016  |              |              |
| 6/8/2016   |              |              |
| 8/31/2016  |              |              |
| 10/19/2016 |              |              |
| 3/21/2017  |              |              |
| 5/2/2017   |              |              |
| 6/6/2017   |              |              |
| 9/12/2017  |              |              |
| 9/13/2017  |              |              |
| 1/23/2018  |              |              |
| 1/24/2018  |              |              |
| 5/1/2018   |              |              |
| 11/27/2018 |              |              |
| 1/8/2019   |              |              |
| 3/20/2019  |              |              |
| 5/29/2019  |              |              |
| 7/31/2019  | 0.0934 (J)   |              |
| 10/1/2019  | 0.0838 (J)   |              |
| 10/2/2019  |              |              |
| 3/30/2020  |              |              |
| 3/31/2020  |              |              |
| 4/1/2020   | 0.0793 (J)   |              |
| 8/31/2020  |              |              |
| 9/1/2020   | 0.0954 (J)   | 0.106        |
| 9/2/2020   |              |              |
| 5/17/2021  |              |              |
| 5/18/2021  |              |              |
| 5/19/2021  | 0.0852 (J)   | 0.123        |
| 5/25/2021  |              |              |
| 10/25/2021 |              |              |
| 10/26/2021 | 0.114        |              |
| 11/1/2021  |              | 0.14         |
| 5/23/2022  | 0.124 (J)    |              |
| 5/24/2022  |              | 0.0811 (J)   |
| 5/25/2022  |              |              |
| 10/31/2022 | 0.0822 (J)   |              |
| 11/1/2022  |              | 0.0715 (J)   |
| 11/2/2022  |              |              |
| 4/3/2023   |              |              |
| 4/4/2023   |              |              |
| 4/5/2023   |              |              |
| 4/24/2023  | 0.0659 (J)   | 0.145        |

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-22H | BY-AP-MW-23H | BY-AP-MW-23V | BY-AP-MW-24H | BY-AP-MW-25H | BY-AP-MW-3 | BY-AP-MW-4 | BY-AP-MW-5 | BY-AP-MW-5V |
|------------|--------------|--------------|--------------|--------------|--------------|------------|------------|------------|-------------|
| 3/1/2016   |              |              |              |              |              |            | 0.02 (J)   | 0.04 (J)   |             |
| 3/2/2016   |              |              |              |              |              | 0.01 (J)   |            |            |             |
| 4/19/2016  |              |              |              |              |              | 0.014 (J)  | 0.016 (J)  |            |             |
| 4/20/2016  |              |              |              |              |              |            |            | 0.043 (J)  |             |
| 6/7/2016   |              |              |              |              |              | 0.049 (J)  | 0.047 (J)  | 0.075 (J)  |             |
| 8/30/2016  |              |              |              |              |              |            | 0.035 (J)  | 0.057 (J)  |             |
| 8/31/2016  |              |              |              |              |              | 0.034 (J)  |            |            |             |
| 10/18/2016 |              |              |              |              |              |            |            | 0.049 (J)  |             |
| 10/19/2016 |              |              |              |              |              | 0.023 (J)  | 0.025 (J)  |            |             |
| 3/21/2017  |              |              |              |              |              | <0.125     | <0.125     |            |             |
| 3/22/2017  |              |              |              |              |              |            |            | 0.04 (J)   |             |
| 5/2/2017   |              |              |              |              |              | <0.125     | <0.125     |            |             |
| 5/3/2017   |              |              |              |              |              |            |            | 0.05 (J)   |             |
| 6/6/2017   |              |              |              |              |              | <0.125     | <0.125     |            |             |
| 6/7/2017   |              |              |              |              |              |            |            | 0.05 (J)   |             |
| 9/12/2017  |              |              |              |              |              | <0.125     | <0.125     |            |             |
| 9/14/2017  |              |              |              |              |              |            |            | 0.06 (J)   |             |
| 1/24/2018  |              |              |              |              |              | <0.125     | <0.125     | 0.05 (J)   |             |
| 5/1/2018   |              |              |              |              |              | <0.125     | <0.125     |            |             |
| 5/2/2018   |              |              |              |              |              |            |            | 0.05 (J)   |             |
| 11/27/2018 |              |              |              |              |              | <0.125     | <0.125     | <0.125     |             |
| 11/28/2018 |              |              |              |              |              |            |            |            |             |
| 1/8/2019   |              |              |              | 0.147        |              |            |            |            | <0.125      |
| 5/29/2019  |              |              |              |              |              | <0.125     | <0.125     | 0.0923 (J) |             |
| 7/31/2019  | 0.257        | 0.0766 (J)   |              |              |              |            |            |            |             |
| 9/30/2019  |              |              |              |              |              |            |            |            |             |
| 10/1/2019  | 0.268        | 0.0804 (J)   |              |              |              | <0.125     | <0.125     | 0.0557 (J) |             |
| 10/2/2019  |              |              |              | 0.183        |              |            |            |            | 0.0777 (J)  |
| 3/30/2020  |              |              |              |              |              |            |            |            |             |
| 3/31/2020  |              |              |              | 0.148        |              | <0.125     | <0.125     | 0.0735 (J) | <0.125      |
| 4/1/2020   |              | 0.0607 (J)   |              |              |              |            |            |            |             |
| 9/1/2020   | 0.301        | 0.0919 (J)   | 0.401        |              |              | <0.125     | <0.125     | 0.0921 (J) | 0.0807 (J)  |
| 9/2/2020   |              |              |              | 0.158        | <0.125       |            |            |            |             |
| 5/17/2021  |              |              | 0.379        |              |              |            |            |            |             |
| 5/18/2021  |              |              |              |              |              | <0.125     | <0.125     |            |             |
| 5/24/2021  |              | 0.0734 (J)   |              |              | <0.125       |            |            |            |             |
| 5/25/2021  | 0.282        |              |              | 0.156        |              |            |            |            |             |
| 10/26/2021 | 0.323        | 0.0709 (J)   | 0.445        | 0.158        |              |            |            |            |             |
| 10/27/2021 |              |              |              |              |              |            |            |            |             |
| 11/1/2021  |              |              |              |              |              | <0.125     | <0.125     |            |             |
| 11/2/2021  |              |              |              |              | <0.125       |            |            | 0.0964 (J) | 0.0627 (J)  |
| 5/24/2022  | 0.318        |              |              | 0.135        |              |            |            |            |             |
| 5/25/2022  |              | <0.125       | 0.385        |              | <0.125       | <0.125     | <0.125     | <0.125     | <0.125      |
| 10/31/2022 | 0.257        |              |              |              | <0.125       |            | <0.125     | 0.0614 (J) | <0.125      |
| 11/1/2022  |              | <0.125       | 0.222        |              |              | <0.125     |            |            |             |
| 11/2/2022  |              |              |              | 0.131        |              |            |            |            |             |
| 4/3/2023   |              |              |              | 0.175        | <0.125       |            |            |            |             |
| 4/4/2023   |              | 0.0744 (J)   | 0.0682 (J)   |              |              | <0.125     | <0.125     | 0.0631 (J) | <0.125      |
| 4/24/2023  | 0.255        |              |              |              |              |            |            |            |             |

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-6 | BY-AP-MW-7 |
|------------|------------|------------|
| 3/1/2016   | <0.125     | 0.06 (J)   |
| 3/2/2016   |            |            |
| 4/19/2016  | 0.016 (J)  |            |
| 4/20/2016  |            | 0.078 (J)  |
| 6/7/2016   | 0.048 (J)  | 0.101 (J)  |
| 8/30/2016  | 0.034 (J)  |            |
| 8/31/2016  |            | 0.086 (J)  |
| 10/18/2016 |            |            |
| 10/19/2016 | 0.023 (J)  | 0.075 (J)  |
| 3/21/2017  |            |            |
| 3/22/2017  | <0.125     | 0.06 (J)   |
| 5/2/2017   |            |            |
| 5/3/2017   | <0.125     | 0.08 (J)   |
| 6/6/2017   |            |            |
| 6/7/2017   | <0.125     | 0.08 (J)   |
| 9/12/2017  |            |            |
| 9/14/2017  | <0.125     | 0.07 (J)   |
| 1/24/2018  | <0.125     | 0.09 (J)   |
| 5/1/2018   |            |            |
| 5/2/2018   | <0.125     | 0.08 (J)   |
| 11/27/2018 |            |            |
| 11/28/2018 | <0.125     | 0.07 (J)   |
| 1/8/2019   |            |            |
| 5/29/2019  | <0.125     | 0.0937 (J) |
| 7/31/2019  |            |            |
| 9/30/2019  |            | 0.0925 (J) |
| 10/1/2019  | <0.125     |            |
| 10/2/2019  |            |            |
| 3/30/2020  |            | 0.0933 (J) |
| 3/31/2020  | <0.125     |            |
| 4/1/2020   |            |            |
| 9/1/2020   |            |            |
| 9/2/2020   | <0.125     | 0.109      |
| 5/17/2021  | <0.125     |            |
| 5/18/2021  |            | 0.11       |
| 5/24/2021  |            |            |
| 5/25/2021  |            |            |
| 10/26/2021 |            |            |
| 10/27/2021 |            | 0.0823 (J) |
| 11/1/2021  |            |            |
| 11/2/2021  | <0.125     |            |
| 5/24/2022  |            | 0.0724 (J) |
| 5/25/2022  | <0.125     |            |
| 10/31/2022 | <0.125     | 0.381      |
| 11/1/2022  |            |            |
| 11/2/2022  |            |            |
| 4/3/2023   |            | 0.171      |
| 4/4/2023   | <0.125     |            |
| 4/24/2023  |            |            |



# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-7V | BY-AP-MW-8 | BY-AP-MW-8V | BY-AP-MW-9 | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|------------|-------------|------------|-------------|------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 2/23/2016  |             |            |             |            | 0.03 (J)        | 0.02 (J)        | 0.02 (J)        | 0.02 (J)        |              |
| 3/1/2016   |             | 0.03 (J)   |             | 0.04 (J)   |                 |                 |                 |                 |              |
| 4/19/2016  |             |            |             |            | 0.023 (J)       | 0.021 (J)       | 0.016 (J)       | 0.015 (J)       |              |
| 4/20/2016  |             | 0.043 (J)  |             | 0.052 (J)  |                 |                 |                 |                 |              |
| 6/6/2016   |             |            |             |            | 0.062 (J)       |                 |                 | 0.05 (J)        |              |
| 6/7/2016   |             | 0.069 (J)  |             |            |                 | 0.06 (J)        | 0.052 (J)       |                 |              |
| 6/8/2016   |             |            |             | 0.077 (J)  |                 |                 |                 |                 |              |
| 8/30/2016  |             | 0.052 (J)  |             |            | 0.053 (J)       | 0.05 (J)        | 0.038 (J)       | 0.036 (J)       |              |
| 8/31/2016  |             |            |             | 0.056 (J)  |                 |                 |                 |                 |              |
| 10/18/2016 |             | 0.042 (J)  |             |            | 0.042 (J)       | 0.04 (J)        | 0.03 (J)        | 0.025 (J)       |              |
| 10/19/2016 |             |            |             | 0.045 (J)  |                 |                 |                 |                 |              |
| 3/20/2017  |             |            |             |            | <0.125          | <0.125          | <0.125          | <0.125          |              |
| 3/22/2017  |             | <0.125     |             | 0.05 (J)   |                 |                 |                 |                 |              |
| 5/2/2017   |             |            |             |            | 0.04 (JD)       | 0.04 (JD)       | 0.1 (D)         | 0.1 (D)         |              |
| 5/3/2017   |             | 0.05 (J)   |             | 0.06 (J)   |                 |                 |                 |                 |              |
| 6/6/2017   |             |            |             |            | 0.1 (D)         | 0.04 (JD)       | 0.1 (D)         | 0.1 (D)         |              |
| 6/7/2017   |             | 0.05 (J)   |             | 0.06 (J)   |                 |                 |                 |                 |              |
| 9/12/2017  |             |            |             |            |                 |                 |                 |                 | <0.125       |
| 9/13/2017  |             |            |             |            | 0.04 (J)        | 0.043 (J)       | <0.125          |                 |              |
| 9/14/2017  |             | 0.05 (J)   |             | 0.07 (J)   |                 |                 |                 |                 |              |
| 1/23/2018  |             |            |             | 0.06 (J)   | <0.125          | 0.04 (J)        | <0.125          | <0.125          |              |
| 1/24/2018  |             | 0.04 (J)   |             |            |                 |                 |                 |                 |              |
| 5/1/2018   |             |            |             |            |                 | 0.04 (J)        | <0.125          | <0.125          |              |
| 5/2/2018   |             | 0.04 (J)   |             | 0.05 (J)   | 0.04 (J)        |                 |                 |                 |              |
| 11/26/2018 |             |            |             |            |                 |                 |                 |                 | <0.125       |
| 11/27/2018 |             | <0.125     |             |            | <0.125          | <0.125          | <0.125          |                 |              |
| 11/28/2018 |             |            |             | 0.04 (J)   |                 |                 |                 |                 |              |
| 1/9/2019   | 0.139       |            | 0.0831 (J)  |            |                 |                 |                 |                 |              |
| 5/28/2019  |             |            |             |            |                 |                 |                 |                 | <0.125       |
| 5/29/2019  |             | 0.0958 (J) |             |            | 0.0502 (J)      | <0.125          | <0.125          |                 |              |
| 5/30/2019  |             |            |             | 0.0763 (J) |                 |                 |                 |                 |              |
| 9/30/2019  |             | 0.0559 (J) |             | 0.0679 (J) |                 |                 |                 |                 |              |
| 10/1/2019  | 0.0871 (J)  |            | 0.0832 (J)  |            |                 |                 |                 |                 |              |
| 10/2/2019  |             |            |             |            | <0.125          | <0.125          | <0.125          | <0.125          |              |
| 3/30/2020  | 0.127       | 0.0701 (J) | 0.0935 (J)  |            |                 |                 |                 |                 |              |
| 3/31/2020  |             |            |             | 0.0655 (J) | <0.125          | <0.125          | <0.125          | <0.125          |              |
| 9/2/2020   | 0.126       | <0.125     | 0.098 (J)   | 0.0804 (J) |                 |                 |                 |                 | <0.125       |
| 9/8/2020   |             |            |             |            |                 |                 |                 |                 | <0.125       |
| 9/9/2020   |             |            |             |            | <0.125          | <0.125          | <0.125          | <0.125          |              |
| 5/11/2021  |             | 0.094 (J)  |             |            |                 | <0.125          | <0.125          | <0.125          |              |
| 5/12/2021  |             |            |             |            | <0.125          |                 |                 |                 |              |
| 5/18/2021  | 0.112       |            | 0.0958 (J)  | 0.0709 (J) |                 |                 |                 |                 |              |
| 5/24/2021  |             |            |             |            |                 |                 |                 |                 | <0.125       |
| 10/18/2021 |             |            |             |            |                 |                 | <0.125          | <0.125          |              |
| 10/19/2021 |             |            |             |            | <0.125          | <0.125          |                 |                 |              |
| 10/26/2021 |             | <0.125     | 0.107       |            |                 |                 |                 |                 |              |
| 10/27/2021 | 0.0795 (J)  |            |             | 0.0803 (J) |                 |                 |                 |                 |              |
| 11/2/2021  |             |            |             |            |                 |                 |                 |                 | <0.125       |
| 5/23/2022  |             |            | 0.108 (J)   |            |                 |                 |                 |                 |              |
| 5/24/2022  | 0.0869 (J)  | 0.0713 (J) |             | <0.125     |                 |                 |                 |                 |              |
| 5/25/2022  |             |            |             |            |                 |                 |                 |                 | <0.125       |
| 5/31/2022  |             |            |             |            | <0.125          | <0.125          | <0.125          | <0.125          |              |

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-7V | BY-AP-MW-8 | BY-AP-MW-8V | BY-AP-MW-9 | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|------------|-------------|------------|-------------|------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 10/31/2022 | 0.428       |            | 0.0963 (J)  | 0.0788 (J) |                 |                 |                 |                 |              |
| 11/1/2022  |             |            |             |            | <0.125          | <0.125          | <0.125          | <0.125          | <0.125       |
| 11/2/2022  |             | <0.125     |             |            |                 |                 |                 |                 |              |
| 4/3/2023   | 0.418       | 0.0706 (J) | 0.212       |            |                 |                 |                 |                 | <0.125       |
| 4/4/2023   |             |            |             | 0.0797 (J) |                 |                 |                 |                 |              |
| 4/12/2023  |             |            |             |            | <0.125          | <0.125          | <0.125          | <0.125          |              |

# Time Series

Constituent: Lead (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

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-13V | BY-AP-MW-14  |
|------------|--------------|-------------|--------------|--------------|-------------|--------------|--------------|--------------|--------------|
| 3/1/2016   |              | <0.000203   |              | <0.005       |             |              |              |              |              |
| 3/2/2016   | <0.0002      |             |              |              | <0.000203   |              | <0.0002      |              | <0.005       |
| 4/19/2016  | <0.0002      |             |              |              |             |              |              |              |              |
| 4/20/2016  |              | <0.000203   |              | <0.005       | <0.000203   |              | <0.0002      |              | <0.005       |
| 6/8/2016   | <0.0002      | <0.000203   |              | <0.005       | <0.000203   |              | <0.0002      |              | <0.005       |
| 8/30/2016  |              |             |              |              |             |              |              |              | <0.005       |
| 8/31/2016  | <0.0002      | <0.000203   |              | <0.005       | <0.000203   |              | <0.0002      |              |              |
| 10/18/2016 |              |             |              |              |             |              |              |              | <0.005       |
| 10/19/2016 | <0.0002      | <0.000203   |              | <0.005       | <0.000203   |              | <0.0002      |              |              |
| 1/31/2017  | <0.0002      |             |              |              |             |              | <0.0002      |              | <0.005       |
| 2/1/2017   |              | <0.000203   |              | <0.005       | <0.000203   |              |              |              |              |
| 5/2/2017   | <0.0002      |             |              |              |             |              |              |              | <0.005       |
| 5/3/2017   |              | <0.000203   |              | <0.005       | <0.000203   |              | <0.0002      |              |              |
| 6/6/2017   | <0.0002      |             |              |              |             |              |              |              | <0.005       |
| 6/7/2017   |              | <0.000203   |              | <0.005       | <0.000203   |              | <0.0002      |              |              |
| 1/22/2018  |              |             |              |              |             |              | <0.0002      |              |              |
| 1/23/2018  |              | <0.000203   |              | <0.005       | <0.000203   |              |              |              | <0.005       |
| 1/24/2018  | <0.0002      |             |              |              |             |              |              |              |              |
| 5/1/2018   | <0.0002      |             |              |              |             |              |              |              |              |
| 5/2/2018   |              | <0.000203   |              | <0.005       | <0.000203   |              | <0.0002      |              | <0.005       |
| 11/27/2018 |              |             |              |              |             |              |              |              | <0.005       |
| 11/28/2018 | <0.0002      | <0.000203   |              | <0.005       | <0.000203   |              | <0.0002      |              |              |
| 1/8/2019   |              |             | <0.000203    |              |             | <0.000203    |              |              |              |
| 5/29/2019  | <0.0002      |             |              | <0.005       | <0.000203   |              | <0.0002      |              | <0.005       |
| 5/30/2019  |              | <0.000203   |              |              |             |              |              |              |              |
| 9/30/2019  |              | <0.000203   |              | <0.005       |             |              |              |              |              |
| 10/1/2019  | <0.0002      |             | <0.000203    |              | <0.000203   |              | <0.0002      |              | <0.005       |
| 10/2/2019  |              |             |              |              |             | <0.000203    |              |              |              |
| 3/30/2020  | <0.0002      |             |              |              |             |              |              |              |              |
| 3/31/2020  |              | <0.000203   | <0.000203    | <0.005       | <0.000203   | <0.000203    | <0.0002      |              | <0.005       |
| 4/1/2020   |              |             |              |              |             |              |              |              |              |
| 9/1/2020   | <0.0002      | <0.000203   | <0.000203    | <0.005       | <0.000203   | <0.000203    | <0.0002      |              |              |
| 9/2/2020   |              |             |              |              |             |              |              | <0.000203    | <0.005       |
| 5/11/2021  |              | <0.000203   |              |              |             |              |              |              |              |
| 5/18/2021  | <0.0002      |             | <0.000203    |              | 0.000326    | 8.16E-05 (J) |              |              |              |
| 5/19/2021  |              |             |              | 0.000102 (J) |             |              | <0.0002      | <0.000203    |              |
| 5/25/2021  |              |             |              |              |             |              |              |              | 7.64E-05 (J) |
| 10/26/2021 |              |             |              |              |             |              | <0.0002      | <0.000203    |              |
| 10/27/2021 |              | <0.000203   | <0.000203    |              |             |              |              |              | 9E-05 (J)    |
| 11/1/2021  | <0.0002      |             |              |              | 0.00029     | <0.000203    |              |              |              |
| 11/2/2021  |              |             |              | 0.00013 (J)  |             |              |              |              |              |
| 5/23/2022  |              |             |              | 9E-05 (J)    | 0.00018 (J) | <0.000203    |              |              |              |
| 5/24/2022  | <0.0002      | <0.000203   | <0.000203    |              |             |              | 0.00015 (J)  |              |              |
| 5/25/2022  |              |             |              |              |             |              |              | <0.000203    | 0.0001 (J)   |
| 11/1/2022  |              |             | <0.000203    | 7.8E-05 (J)  | <0.000203   | <0.000203    | 0.000151 (J) | <0.000203    | 8.3E-05 (J)  |
| 11/2/2022  | 9.2E-05 (J)  | <0.000203   |              |              |             |              |              |              |              |
| 4/3/2023   | 0.000122 (J) | <0.000203   | <0.000203    |              |             |              |              |              |              |
| 4/4/2023   |              |             |              | 6.9E-05 (J)  | <0.000203   | <0.000203    | 0.000101 (J) | <0.000203    |              |
| 4/5/2023   |              |             |              |              |             |              |              |              | 0.00011 (J)  |

# Time Series

Constituent: Lead (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-14V | BY-AP-MW-15 |
|------------|--------------|-------------|
| 3/1/2016   |              |             |
| 3/2/2016   |              | <0.000203   |
| 4/19/2016  |              | <0.000203   |
| 4/20/2016  |              |             |
| 6/8/2016   |              | <0.000203   |
| 8/30/2016  |              |             |
| 8/31/2016  |              | <0.000203   |
| 10/18/2016 |              |             |
| 10/19/2016 |              | <0.000203   |
| 1/31/2017  |              | <0.000203   |
| 2/1/2017   |              |             |
| 5/2/2017   |              | <0.000203   |
| 5/3/2017   |              |             |
| 6/6/2017   |              | <0.000203   |
| 6/7/2017   |              |             |
| 1/22/2018  |              | <0.000203   |
| 1/23/2018  |              |             |
| 1/24/2018  |              |             |
| 5/1/2018   |              | <0.000203   |
| 5/2/2018   |              |             |
| 11/27/2018 |              | <0.000203   |
| 11/28/2018 |              |             |
| 1/8/2019   |              |             |
| 5/29/2019  |              | <0.000203   |
| 5/30/2019  |              |             |
| 9/30/2019  |              |             |
| 10/1/2019  |              | <0.000203   |
| 10/2/2019  |              |             |
| 3/30/2020  |              |             |
| 3/31/2020  |              |             |
| 4/1/2020   |              | <0.000203   |
| 9/1/2020   |              |             |
| 9/2/2020   | <0.000203    | <0.000203   |
| 5/11/2021  |              | <0.000203   |
| 5/18/2021  |              |             |
| 5/19/2021  |              |             |
| 5/25/2021  | 7.24E-05 (J) |             |
| 10/26/2021 | <0.000203    | <0.000203   |
| 10/27/2021 |              |             |
| 11/1/2021  |              |             |
| 11/2/2021  |              |             |
| 5/23/2022  |              |             |
| 5/24/2022  | <0.000203    |             |
| 5/25/2022  |              | <0.000203   |
| 11/1/2022  | <0.000203    | <0.000203   |
| 11/2/2022  |              |             |
| 4/3/2023   |              | <0.000203   |
| 4/4/2023   | <0.000203    |             |
| 4/5/2023   |              |             |

# Time Series

Constituent: Lead (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-15V | BY-AP-MW-16  | BY-AP-MW-16V | BY-AP-MW-17H | BY-AP-MW-17V | BY-AP-MW-18H | BY-AP-MW-19H | BY-AP-MW-1V | BY-AP-MW-2 |
|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|------------|
| 3/2/2016   |              | <0.000203    |              |              |              |              |              |             | <0.000203  |
| 4/19/2016  |              | <0.000203    |              |              |              |              |              |             | <0.000203  |
| 6/8/2016   |              | <0.000203    |              |              |              |              |              |             | <0.000203  |
| 8/31/2016  |              | <0.000203    |              |              |              |              |              |             | <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  |
| 1/23/2018  |              | <0.000203    |              |              |              |              |              |             | <0.000203  |
| 1/24/2018  |              |              |              |              |              |              |              |             | <0.000203  |
| 5/1/2018   |              | <0.000203    |              |              |              |              |              |             | <0.000203  |
| 11/27/2018 |              | <0.000203    |              |              |              |              |              |             | <0.000203  |
| 1/8/2019   |              |              |              |              |              |              |              | <0.000203   |            |
| 3/20/2019  |              |              |              |              |              | <0.000203    |              |             |            |
| 5/29/2019  |              | <0.000203    |              |              |              |              |              |             | <0.000203  |
| 7/31/2019  | <0.000203    |              |              | <0.000203    |              |              | <0.000203    |             |            |
| 10/1/2019  | <0.000203    | <0.000203    |              |              |              | <0.000203    | <0.000203    |             | <0.000203  |
| 10/2/2019  |              |              |              | <0.000203    |              |              |              | <0.000203   |            |
| 3/30/2020  |              |              |              |              |              |              |              | <0.000203   |            |
| 3/31/2020  |              | <0.000203    |              |              |              |              |              |             | <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    | <0.000203   |            |
| 9/2/2020   |              | <0.000203    | <0.000203    |              |              |              |              |             |            |
| 5/17/2021  |              |              |              | 9.09E-05 (J) |              |              |              |             |            |
| 5/18/2021  |              |              |              |              | 0.000137 (J) |              |              | <0.000203   | <0.000203  |
| 5/19/2021  |              | 0.000191 (J) | <0.000203    |              |              | <0.000203    |              |             |            |
| 5/25/2021  | <0.000203    |              |              |              |              |              | <0.000203    |             |            |
| 10/25/2021 |              |              |              | <0.000203    | <0.000203    | <0.000203    | <0.000203    |             |            |
| 10/26/2021 | <0.000203    |              | <0.000203    |              |              |              |              |             |            |
| 11/1/2021  |              | <0.000203    |              |              |              |              |              | <0.000203   | <0.000203  |
| 5/23/2022  |              |              |              |              |              | <0.000203    |              |             |            |
| 5/24/2022  | 0.00011 (J)  |              |              |              |              |              | <0.000203    | <0.000203   | <0.000203  |
| 5/25/2022  |              | <0.000203    | <0.000203    | <0.000203    | 7E-05 (J)    |              |              |             |            |
| 10/31/2022 |              |              |              | <0.000203    | <0.000203    | <0.000203    | <0.000203    |             |            |
| 11/1/2022  |              | <0.000203    | <0.000203    |              |              |              |              | <0.000203   |            |
| 11/2/2022  | <0.000203    |              |              |              |              |              |              |             | <0.000203  |
| 4/3/2023   |              |              |              |              |              |              |              |             | <0.000203  |
| 4/4/2023   |              |              | 0.000253     | 7.6E-05 (J)  | <0.000203    |              |              | <0.000203   |            |
| 4/5/2023   |              | <0.000203    |              |              |              | <0.000203    |              |             |            |
| 4/24/2023  | <0.000203    |              |              |              |              |              | <0.000203    |             |            |

# Time Series

Constituent: Lead (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-20H | BY-AP-MW-20V |
|------------|--------------|--------------|
| 3/2/2016   |              |              |
| 4/19/2016  |              |              |
| 6/8/2016   |              |              |
| 8/31/2016  |              |              |
| 10/19/2016 |              |              |
| 1/31/2017  |              |              |
| 5/2/2017   |              |              |
| 6/6/2017   |              |              |
| 1/23/2018  |              |              |
| 1/24/2018  |              |              |
| 5/1/2018   |              |              |
| 11/27/2018 |              |              |
| 1/8/2019   |              |              |
| 3/20/2019  |              |              |
| 5/29/2019  |              |              |
| 7/31/2019  | <0.000203    |              |
| 10/1/2019  | <0.000203    |              |
| 10/2/2019  |              |              |
| 3/30/2020  |              |              |
| 3/31/2020  |              |              |
| 4/1/2020   | <0.000203    |              |
| 8/31/2020  |              |              |
| 9/1/2020   | <0.000203    | <0.000203    |
| 9/2/2020   |              |              |
| 5/17/2021  |              |              |
| 5/18/2021  |              |              |
| 5/19/2021  | 0.000224     | <0.000203    |
| 5/25/2021  |              |              |
| 10/25/2021 |              |              |
| 10/26/2021 | <0.000203    |              |
| 11/1/2021  |              | <0.000203    |
| 5/23/2022  | <0.000203    |              |
| 5/24/2022  |              | <0.000203    |
| 5/25/2022  |              |              |
| 10/31/2022 | <0.000203    |              |
| 11/1/2022  |              | <0.000203    |
| 11/2/2022  |              |              |
| 4/3/2023   |              |              |
| 4/4/2023   |              |              |
| 4/5/2023   |              |              |
| 4/24/2023  | <0.000203    | 8.6E-05 (J)  |

# Time Series

Constituent: Lead (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-22H | BY-AP-MW-23H | BY-AP-MW-23V | BY-AP-MW-24H | BY-AP-MW-25H | BY-AP-MW-3 | BY-AP-MW-4   | BY-AP-MW-5 | BY-AP-MW-5V |
|------------|--------------|--------------|--------------|--------------|--------------|------------|--------------|------------|-------------|
| 3/1/2016   |              |              |              |              |              |            | <0.005       | <0.000203  |             |
| 3/2/2016   |              |              |              |              |              | <0.000203  |              |            |             |
| 4/19/2016  |              |              |              |              |              | <0.000203  | <0.005       |            |             |
| 4/20/2016  |              |              |              |              |              |            |              | <0.000203  |             |
| 6/7/2016   |              |              |              |              |              | <0.000203  | <0.005       | <0.000203  |             |
| 8/30/2016  |              |              |              |              |              |            | <0.005       | <0.000203  |             |
| 8/31/2016  |              |              |              |              |              | <0.000203  |              |            |             |
| 10/18/2016 |              |              |              |              |              |            |              | <0.000203  |             |
| 10/19/2016 |              |              |              |              |              | <0.000203  | <0.005       |            |             |
| 1/31/2017  |              |              |              |              |              | <0.000203  | <0.005       | <0.000203  |             |
| 5/2/2017   |              |              |              |              |              | <0.000203  | <0.005       |            |             |
| 5/3/2017   |              |              |              |              |              |            |              | <0.000203  |             |
| 6/6/2017   |              |              |              |              |              | <0.000203  | <0.005       |            |             |
| 6/7/2017   |              |              |              |              |              |            |              | <0.000203  |             |
| 1/24/2018  |              |              |              |              |              | <0.000203  | <0.005       | <0.000203  |             |
| 5/1/2018   |              |              |              |              |              | <0.000203  | <0.005       |            |             |
| 5/2/2018   |              |              |              |              |              |            |              | <0.000203  |             |
| 11/27/2018 |              |              |              |              |              | <0.000203  | <0.005       | <0.000203  |             |
| 11/28/2018 |              |              |              |              |              |            |              |            |             |
| 1/8/2019   |              |              |              | <0.000203    |              |            |              |            | <0.000203   |
| 5/29/2019  |              |              |              |              |              | <0.000203  | <0.005       | <0.000203  |             |
| 7/31/2019  | <0.000203    | <0.000203    |              |              |              |            |              |            |             |
| 9/30/2019  |              |              |              |              |              |            |              |            |             |
| 10/1/2019  | <0.000203    | <0.000203    |              |              |              | <0.000203  | <0.005       | <0.000203  |             |
| 10/2/2019  |              |              |              | <0.000203    |              |            |              |            | <0.000203   |
| 3/30/2020  |              |              |              |              |              |            |              |            |             |
| 3/31/2020  |              |              |              | <0.000203    |              | <0.000203  | <0.005       | <0.000203  | <0.000203   |
| 4/1/2020   |              | <0.000203    |              |              |              |            |              |            |             |
| 9/1/2020   | <0.000203    | <0.000203    | <0.000203    |              |              | <0.000203  | <0.005       | <0.000203  | <0.000203   |
| 9/2/2020   |              |              |              | <0.000203    | <0.000203    |            |              |            |             |
| 5/17/2021  |              |              | 0.000216     |              |              |            |              |            |             |
| 5/18/2021  |              |              |              |              |              | <0.000203  | 0.00013 (J)  |            |             |
| 5/24/2021  |              | <0.000203    |              |              | <0.000203    |            |              |            |             |
| 5/25/2021  | <0.000203    |              |              | <0.000203    |              |            |              |            |             |
| 10/26/2021 | <0.000203    | <0.000203    | 0.0001 (J)   | <0.000203    |              |            |              |            |             |
| 10/27/2021 |              |              |              |              |              |            |              |            |             |
| 11/1/2021  |              |              |              |              |              | <0.000203  | 7E-05 (J)    |            |             |
| 11/2/2021  |              |              |              |              | <0.000203    |            |              | <0.000203  | <0.000203   |
| 5/24/2022  | <0.000203    |              |              | <0.000203    |              |            |              |            |             |
| 5/25/2022  |              | <0.000203    | 0.00012 (J)  |              | <0.000203    | <0.000203  | 0.00018 (J)  | <0.000203  | <0.000203   |
| 10/31/2022 | <0.000203    |              |              |              | <0.000203    |            | 0.000144 (J) | <0.000203  | <0.000203   |
| 11/1/2022  |              | <0.000203    | <0.000203    |              |              | <0.000203  |              |            |             |
| 11/2/2022  |              |              |              | <0.000203    |              |            |              |            |             |
| 4/3/2023   |              |              |              | <0.000203    | <0.000203    |            |              |            |             |
| 4/4/2023   |              | <0.000203    | <0.000203    |              |              | <0.000203  | 8.5E-05 (J)  | <0.000203  | <0.000203   |
| 4/24/2023  | <0.000203    |              |              |              |              |            |              |            |             |

# Time Series

Constituent: Lead (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-6  | BY-AP-MW-7 |
|------------|-------------|------------|
| 3/1/2016   | <0.005      | <0.000203  |
| 3/2/2016   |             |            |
| 4/19/2016  | <0.005      |            |
| 4/20/2016  |             | <0.000203  |
| 6/7/2016   | <0.005      | <0.000203  |
| 8/30/2016  | <0.005      |            |
| 8/31/2016  |             | <0.000203  |
| 10/18/2016 |             |            |
| 10/19/2016 | <0.005      | <0.000203  |
| 1/31/2017  | <0.005      | <0.000203  |
| 5/2/2017   |             |            |
| 5/3/2017   | <0.005      | <0.000203  |
| 6/6/2017   |             |            |
| 6/7/2017   | <0.005      | <0.000203  |
| 1/24/2018  | <0.005      | <0.000203  |
| 5/1/2018   |             |            |
| 5/2/2018   | <0.005      | <0.000203  |
| 11/27/2018 |             |            |
| 11/28/2018 | <0.005      | <0.000203  |
| 1/8/2019   |             |            |
| 5/29/2019  | 0.00185 (J) | <0.000203  |
| 7/31/2019  |             |            |
| 9/30/2019  |             | <0.000203  |
| 10/1/2019  | 0.00545     |            |
| 10/2/2019  |             |            |
| 3/30/2020  |             | <0.000203  |
| 3/31/2020  | 0.00276 (J) |            |
| 4/1/2020   |             |            |
| 9/1/2020   |             |            |
| 9/2/2020   | 0.00171 (J) | <0.000203  |
| 5/17/2021  | 0.00162     |            |
| 5/18/2021  |             | <0.000203  |
| 5/24/2021  |             |            |
| 5/25/2021  |             |            |
| 10/26/2021 |             |            |
| 10/27/2021 |             | <0.000203  |
| 11/1/2021  |             |            |
| 11/2/2021  | 0.00336     |            |
| 5/24/2022  |             | <0.000203  |
| 5/25/2022  | 0.0112      |            |
| 10/31/2022 | 0.00148     | <0.000203  |
| 11/1/2022  |             |            |
| 11/2/2022  |             |            |
| 4/3/2023   |             | <0.000203  |
| 4/4/2023   | 0.00183     |            |
| 4/24/2023  |             |            |



# Time Series

Constituent: Lead (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-7V  | BY-AP-MW-8 | BY-AP-MW-8V | BY-AP-MW-9  | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|------------|--------------|------------|-------------|-------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 2/23/2016  |              |            |             |             | <0.005          | <0.005          | <0.000203       | <0.005          |              |
| 3/1/2016   |              | <0.000203  |             | <0.000203   |                 |                 |                 |                 |              |
| 4/19/2016  |              |            |             |             | <0.005          | <0.005          | <0.000203       | <0.005          |              |
| 4/20/2016  |              | <0.000203  |             | <0.000203   |                 |                 |                 |                 |              |
| 6/6/2016   |              |            |             |             | <0.005          |                 |                 | <0.005          |              |
| 6/7/2016   |              | <0.000203  |             |             |                 | <0.005          | <0.000203       |                 |              |
| 6/8/2016   |              |            |             | <0.000203   |                 |                 |                 |                 |              |
| 8/30/2016  |              | <0.000203  |             |             | <0.005          | <0.005          | <0.000203       | <0.005          |              |
| 8/31/2016  |              |            |             | <0.000203   |                 |                 |                 |                 |              |
| 10/18/2016 |              | <0.000203  |             |             | <0.005          | <0.005          | <0.000203       | <0.005          |              |
| 10/19/2016 |              |            |             | <0.000203   |                 |                 |                 |                 |              |
| 1/31/2017  |              | <0.000203  |             |             | <0.005          | <0.005          | <0.000203       | <0.005          |              |
| 2/1/2017   |              |            |             | <0.000203   |                 |                 |                 |                 |              |
| 5/2/2017   |              |            |             |             | <0.005          | <0.005          | <0.000203       | <0.005          |              |
| 5/3/2017   |              | <0.000203  |             | <0.000203   |                 |                 |                 |                 |              |
| 6/6/2017   |              |            |             |             | <0.005          | <0.005          | <0.000203       | <0.005          |              |
| 6/7/2017   |              | <0.000203  |             | <0.000203   |                 |                 |                 |                 |              |
| 1/23/2018  |              |            |             | <0.000203   | <0.005          | <0.005          | <0.000203       | <0.005          |              |
| 1/24/2018  |              | <0.000203  |             |             |                 |                 |                 |                 |              |
| 5/1/2018   |              |            |             |             |                 | <0.005          | <0.000203       | <0.005          |              |
| 5/2/2018   |              | <0.000203  |             | <0.000203   | <0.005          |                 |                 |                 |              |
| 11/26/2018 |              |            |             |             |                 |                 |                 | <0.005          |              |
| 11/27/2018 |              | <0.000203  |             |             | <0.005          | <0.005          | <0.000203       |                 |              |
| 11/28/2018 |              |            |             | <0.000203   |                 |                 |                 |                 |              |
| 1/9/2019   | <0.0002      |            | <0.000203   |             |                 |                 |                 |                 |              |
| 5/28/2019  |              |            |             |             |                 |                 |                 | <0.005          |              |
| 5/29/2019  |              | <0.000203  |             |             | <0.005          | <0.005          | <0.000203       |                 |              |
| 5/30/2019  |              |            |             | 0.00108 (J) |                 |                 |                 |                 |              |
| 9/30/2019  |              | <0.000203  |             | <0.000203   |                 |                 |                 |                 |              |
| 10/1/2019  | <0.0002      |            | <0.000203   |             |                 |                 |                 |                 |              |
| 10/2/2019  |              |            |             |             | <0.005          | <0.005          | <0.000203       | <0.005          |              |
| 3/30/2020  | <0.0002      | <0.000203  | <0.000203   |             |                 |                 |                 |                 |              |
| 3/31/2020  |              |            |             | <0.000203   | <0.005          | <0.005          | <0.000203       | 0.00126 (J)     |              |
| 9/2/2020   | <0.0002      | <0.000203  | <0.000203   | <0.000203   |                 |                 |                 |                 | <0.000203    |
| 9/8/2020   |              |            |             |             |                 |                 |                 | <0.005          |              |
| 9/9/2020   |              |            |             |             | <0.005          | <0.005          | <0.000203       |                 |              |
| 5/11/2021  |              | <0.000203  |             |             |                 | 0.000118 (J)    | <0.000203       | 0.000159 (J)    |              |
| 5/12/2021  |              |            |             |             | 9.79E-05 (J)    |                 |                 |                 |              |
| 5/18/2021  | <0.0002      |            | <0.000203   | <0.000203   |                 |                 |                 |                 |              |
| 5/24/2021  |              |            |             |             |                 |                 |                 |                 | <0.000203    |
| 10/18/2021 |              |            |             |             |                 |                 | <0.000203       | 0.00012 (J)     |              |
| 10/19/2021 |              |            |             |             | 0.00012 (J)     | 0.0001 (J)      |                 |                 |              |
| 10/26/2021 |              | <0.000203  | <0.000203   |             |                 |                 |                 |                 |              |
| 10/27/2021 | <0.0002      |            |             | <0.000203   |                 |                 |                 |                 |              |
| 11/2/2021  |              |            |             |             |                 |                 |                 |                 | <0.000203    |
| 5/23/2022  |              |            | <0.000203   |             |                 |                 |                 |                 |              |
| 5/24/2022  | <0.0002      | <0.000203  |             | <0.000203   |                 |                 |                 |                 |              |
| 5/25/2022  |              |            |             |             |                 |                 |                 |                 | <0.000203    |
| 5/31/2022  |              |            |             |             | 8E-05 (J)       | 8E-05 (J)       | <0.000203       | 0.00017 (J)     |              |
| 10/31/2022 | 0.000114 (J) |            | <0.000203   | <0.000203   |                 |                 |                 |                 |              |
| 11/1/2022  |              |            |             |             | 0.00017 (J)     | 0.000411        | <0.000203       | 8.6E-05 (J)     | <0.000203    |
| 11/2/2022  |              | <0.000203  |             |             |                 |                 |                 |                 |              |

# Time Series

Constituent: Lead (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|           | BY-AP-MW-7V  | BY-AP-MW-8 | BY-AP-MW-8V  | BY-AP-MW-9 | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|-----------|--------------|------------|--------------|------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 4/3/2023  | 0.000161 (J) | <0.000203  | 0.000158 (J) |            |                 |                 |                 |                 | <0.000203    |
| 4/4/2023  |              |            |              | <0.000203  |                 |                 |                 |                 |              |
| 4/12/2023 |              |            |              |            | 7.6E-05 (J)     | 0.00014 (J)     | 8.3E-05 (J)     | 8.6E-05 (J)     |              |

# Time Series

Constituent: Lithium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

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-13V | BY-AP-MW-14 |
|------------|------------|-------------|--------------|-------------|-------------|--------------|-------------|--------------|-------------|
| 3/1/2016   |            | <0.02       |              | <0.02       |             |              |             |              |             |
| 3/2/2016   | <0.02      |             |              |             | <0.02       |              | <0.02       |              | <0.02       |
| 4/19/2016  | <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       |
| 8/30/2016  |            |             |              |             |             |              |             |              | <0.02       |
| 8/31/2016  | <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       |              |             |
| 1/31/2017  | <0.02      |             |              |             |             |              | <0.02       |              | <0.02       |
| 2/1/2017   |            | <0.02       |              | <0.02       | <0.02       |              |             |              |             |
| 5/2/2017   | <0.02      |             |              |             |             |              |             |              | <0.02       |
| 5/3/2017   |            | <0.02       |              | <0.02       | <0.02       |              | <0.02       |              |             |
| 6/6/2017   | <0.02      |             |              |             |             |              |             |              | <0.02       |
| 6/7/2017   |            | <0.02       |              | <0.02       | <0.02       |              | <0.02       |              |             |
| 1/22/2018  |            |             |              |             |             |              | <0.02       |              |             |
| 1/23/2018  |            | <0.02       |              | <0.02       | <0.02       |              |             |              | <0.02       |
| 1/24/2018  | <0.02      |             |              |             |             |              |             |              |             |
| 5/1/2018   | <0.02      |             |              |             |             |              |             |              |             |
| 5/2/2018   |            | <0.02       |              | 0.0384 (J)  | <0.02       |              | <0.02       |              | <0.02       |
| 11/27/2018 |            |             |              |             |             |              |             |              | <0.02       |
| 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       |
| 5/30/2019  |            | <0.02       |              |             |             |              |             |              |             |
| 9/30/2019  |            | <0.02       |              | 0.0228      |             |              |             |              |             |
| 10/1/2019  | <0.02      |             | <0.02        |             | <0.02       |              | <0.02       |              | <0.02       |
| 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   |            |             |              |             |             |              |             |              |             |
| 9/1/2020   | <0.02      | <0.02       | <0.02        | <0.02       | <0.02       | <0.02        | <0.02       |              |             |
| 9/2/2020   |            |             |              |             |             |              |             | <0.01999956  | <0.02       |
| 5/11/2021  |            | <0.02       |              |             |             |              |             |              |             |
| 5/18/2021  | <0.02      |             | <0.02        |             | <0.02       | <0.02        |             |              |             |
| 5/19/2021  |            |             |              | 0.00754 (J) |             |              | <0.02       | <0.01999956  |             |
| 5/25/2021  |            |             |              |             |             |              |             |              | <0.02       |
| 10/26/2021 |            |             |              |             |             |              | <0.02       | 0.0484       |             |
| 10/27/2021 |            | <0.02       | <0.02        |             |             |              |             |              | <0.02       |
| 11/1/2021  | <0.02      |             |              |             | <0.02       | <0.02        |             |              |             |
| 11/2/2021  |            |             |              | <0.02       |             |              |             |              |             |
| 5/23/2022  |            |             |              | 0.0269      | <0.02       | <0.02        |             |              |             |
| 5/24/2022  | <0.02      | <0.02       | <0.02        |             |             |              | <0.02       |              |             |
| 5/25/2022  |            |             |              |             |             |              |             | 0.0318       | <0.02       |
| 11/1/2022  |            |             | <0.02        | 0.0182 (J)  | <0.02       | <0.02        | <0.02       | 0.0331       | <0.02       |
| 11/2/2022  | <0.02      | <0.02       |              |             |             |              |             |              |             |
| 4/3/2023   | <0.02      | <0.02       | <0.02        |             |             |              |             |              |             |
| 4/4/2023   |            |             |              | 0.034       | <0.02       | <0.02        | <0.02       | 0.0351       |             |
| 4/5/2023   |            |             |              |             |             |              |             |              | <0.02       |

# Time Series

Constituent: Lithium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-14V | BY-AP-MW-15 |
|------------|--------------|-------------|
| 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  |              | <0.02       |
| 1/23/2018  |              |             |
| 1/24/2018  |              |             |
| 5/1/2018   |              | <0.02       |
| 5/2/2018   |              |             |
| 11/27/2018 |              | 0.0169 (J)  |
| 11/28/2018 |              |             |
| 1/8/2019   |              |             |
| 5/29/2019  |              | 0.0254      |
| 5/30/2019  |              |             |
| 9/30/2019  |              |             |
| 10/1/2019  |              | 0.0248      |
| 10/2/2019  |              |             |
| 3/30/2020  |              |             |
| 3/31/2020  |              |             |
| 4/1/2020   |              | 0.0174 (J)  |
| 9/1/2020   |              |             |
| 9/2/2020   | <0.02        | <0.02       |
| 5/11/2021  |              | 0.00788 (J) |
| 5/18/2021  |              |             |
| 5/19/2021  |              |             |
| 5/25/2021  | <0.02        |             |
| 10/26/2021 | <0.02        | 0.0117 (J)  |
| 10/27/2021 |              |             |
| 11/1/2021  |              |             |
| 11/2/2021  |              |             |
| 5/23/2022  |              |             |
| 5/24/2022  | <0.02        |             |
| 5/25/2022  |              | 0.0118 (J)  |
| 11/1/2022  | <0.02        | <0.02       |
| 11/2/2022  |              |             |
| 4/3/2023   |              | 0.0189 (J)  |
| 4/4/2023   | <0.02        |             |
| 4/5/2023   |              |             |

# Time Series

Constituent: Lithium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-15V | BY-AP-MW-16 | BY-AP-MW-16V | BY-AP-MW-17H | BY-AP-MW-17V | BY-AP-MW-18H | BY-AP-MW-19H | BY-AP-MW-1V | BY-AP-MW-2 |
|------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|-------------|------------|
| 3/2/2016   |              | <0.02       |              |              |              |              |              |             | <0.02      |
| 4/19/2016  |              | <0.02       |              |              |              |              |              |             | <0.02      |
| 6/8/2016   |              | <0.02       |              |              |              |              |              |             | <0.02      |
| 8/31/2016  |              | <0.02       |              |              |              |              |              |             | <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      |
| 1/23/2018  |              | <0.02       |              |              |              |              |              |             | <0.02      |
| 1/24/2018  |              |             |              |              |              |              |              |             | <0.02      |
| 5/1/2018   |              | <0.02       |              |              |              |              |              |             | <0.02      |
| 11/27/2018 |              | <0.02       |              |              |              |              |              |             | <0.02      |
| 1/8/2019   |              |             |              |              |              |              |              | 0.0219      |            |
| 3/20/2019  |              |             |              |              |              | <0.02        |              |             |            |
| 5/29/2019  |              | <0.02       |              |              |              |              |              |             | <0.02      |
| 7/31/2019  | <0.02        |             |              | <0.02        |              |              | <0.02        |             |            |
| 10/1/2019  | <0.02        | <0.02       |              |              |              | <0.02        | <0.02        |             | <0.02      |
| 10/2/2019  |              |             |              | <0.02        |              |              |              | <0.02       |            |
| 3/30/2020  |              |             |              |              |              |              |              | <0.02       |            |
| 3/31/2020  |              | <0.02       |              |              |              |              |              |             | <0.02      |
| 4/1/2020   |              |             |              | <0.02        |              | <0.02        |              |             |            |
| 8/31/2020  |              |             |              |              |              |              |              |             | <0.02      |
| 9/1/2020   | <0.02        |             |              | <0.02        | <0.02        | <0.02        | <0.02        | <0.02       |            |
| 9/2/2020   |              | <0.02       | <0.02        |              |              |              |              |             |            |
| 5/17/2021  |              |             |              | <0.02        |              |              |              |             |            |
| 5/18/2021  |              |             |              |              | <0.02        |              |              | <0.02       | <0.02      |
| 5/19/2021  |              | <0.02       | <0.02        |              |              | <0.02        |              |             |            |
| 5/25/2021  | <0.02        |             |              |              |              |              | <0.02        |             |            |
| 10/25/2021 |              |             |              | <0.02        | <0.02        | <0.02        | <0.02        |             |            |
| 10/26/2021 | <0.02        |             | <0.02        |              |              |              |              |             |            |
| 11/1/2021  |              | <0.02       |              |              |              |              |              | <0.02       | <0.02      |
| 5/23/2022  |              |             |              |              |              | <0.02        |              |             |            |
| 5/24/2022  | <0.02        |             |              |              |              |              | <0.02        | <0.02       | <0.02      |
| 5/25/2022  |              | <0.02       | <0.02        | <0.02        | <0.02        |              |              |             |            |
| 10/31/2022 |              |             |              | <0.02        | <0.02        | <0.02        | <0.02        |             |            |
| 11/1/2022  |              | <0.02       | <0.02        |              |              |              |              | <0.02       |            |
| 11/2/2022  | <0.02        |             |              |              |              |              |              |             | <0.02      |
| 4/3/2023   |              |             |              |              |              |              |              |             | <0.02      |
| 4/4/2023   |              |             | <0.02        | <0.02        | <0.02        |              |              | <0.02       |            |
| 4/5/2023   |              | <0.02       |              |              |              | <0.02        |              |             |            |
| 4/24/2023  | <0.02        |             |              |              |              |              | <0.02        |             |            |

# Time Series

Constituent: Lithium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-20H | BY-AP-MW-20V |
|------------|--------------|--------------|
| 3/2/2016   |              |              |
| 4/19/2016  |              |              |
| 6/8/2016   |              |              |
| 8/31/2016  |              |              |
| 10/19/2016 |              |              |
| 1/31/2017  |              |              |
| 5/2/2017   |              |              |
| 6/6/2017   |              |              |
| 1/23/2018  |              |              |
| 1/24/2018  |              |              |
| 5/1/2018   |              |              |
| 11/27/2018 |              |              |
| 1/8/2019   |              |              |
| 3/20/2019  |              |              |
| 5/29/2019  |              |              |
| 7/31/2019  | <0.02        |              |
| 10/1/2019  | <0.02        |              |
| 10/2/2019  |              |              |
| 3/30/2020  |              |              |
| 3/31/2020  |              |              |
| 4/1/2020   | <0.02        |              |
| 8/31/2020  |              |              |
| 9/1/2020   | <0.02        | <0.02        |
| 9/2/2020   |              |              |
| 5/17/2021  |              |              |
| 5/18/2021  |              |              |
| 5/19/2021  | <0.02        | <0.02        |
| 5/25/2021  |              |              |
| 10/25/2021 |              |              |
| 10/26/2021 | <0.02        |              |
| 11/1/2021  |              | <0.02        |
| 5/23/2022  | <0.02        |              |
| 5/24/2022  |              | <0.02        |
| 5/25/2022  |              |              |
| 10/31/2022 | <0.02        |              |
| 11/1/2022  |              | <0.02        |
| 11/2/2022  |              |              |
| 4/3/2023   |              |              |
| 4/4/2023   |              |              |
| 4/5/2023   |              |              |
| 4/24/2023  | <0.02        | <0.02        |

# Time Series

Constituent: Lithium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-22H | BY-AP-MW-23H | BY-AP-MW-23V | BY-AP-MW-24H | BY-AP-MW-25H | BY-AP-MW-3 | BY-AP-MW-4 | BY-AP-MW-5 | BY-AP-MW-5V |
|------------|--------------|--------------|--------------|--------------|--------------|------------|------------|------------|-------------|
| 3/1/2016   |              |              |              |              |              |            | <0.02      | <0.02      |             |
| 3/2/2016   |              |              |              |              |              | <0.02      |            |            |             |
| 4/19/2016  |              |              |              |              |              | <0.02      | <0.02      |            |             |
| 4/20/2016  |              |              |              |              |              |            |            | <0.02      |             |
| 6/7/2016   |              |              |              |              |              | <0.02      | <0.02      | <0.02      |             |
| 8/30/2016  |              |              |              |              |              |            | <0.02      | <0.02      |             |
| 8/31/2016  |              |              |              |              |              | <0.02      |            |            |             |
| 10/18/2016 |              |              |              |              |              |            |            | <0.02      |             |
| 10/19/2016 |              |              |              |              |              | <0.02      | <0.02      |            |             |
| 1/31/2017  |              |              |              |              |              | <0.02      | <0.02      | <0.02      |             |
| 5/2/2017   |              |              |              |              |              | <0.02      | <0.02      |            |             |
| 5/3/2017   |              |              |              |              |              |            |            | <0.02      |             |
| 6/6/2017   |              |              |              |              |              | <0.02      | <0.02      |            |             |
| 6/7/2017   |              |              |              |              |              |            |            | <0.02      |             |
| 1/24/2018  |              |              |              |              |              | <0.02      | <0.02      | <0.02      |             |
| 5/1/2018   |              |              |              |              |              | <0.02      | <0.02      |            |             |
| 5/2/2018   |              |              |              |              |              |            |            | <0.02      |             |
| 11/27/2018 |              |              |              |              |              | <0.02      | <0.02      | <0.02      |             |
| 11/28/2018 |              |              |              |              |              |            |            |            |             |
| 1/8/2019   |              |              |              | 0.0183 (J)   |              |            |            |            | <0.02       |
| 5/29/2019  |              |              |              |              |              | <0.02      | <0.02      | <0.02      |             |
| 7/31/2019  | <0.02        | <0.02        |              |              |              |            |            |            |             |
| 9/30/2019  |              |              |              |              |              |            |            |            |             |
| 10/1/2019  | <0.02        | <0.02        |              |              |              | <0.02      | <0.02      | <0.02      |             |
| 10/2/2019  |              |              |              | <0.02        |              |            |            |            | <0.02       |
| 3/30/2020  |              |              |              |              |              |            |            |            |             |
| 3/31/2020  |              |              |              | <0.02        |              | <0.02      | <0.02      | <0.02      | <0.02       |
| 4/1/2020   |              | <0.02        |              |              |              |            |            |            |             |
| 9/1/2020   | <0.02        | <0.02        | <0.02        |              |              | <0.02      | <0.02      | <0.02      | <0.02       |
| 9/2/2020   |              |              |              | <0.02        | <0.02        |            |            |            |             |
| 5/17/2021  |              |              | <0.02        |              |              |            |            |            |             |
| 5/18/2021  |              |              |              |              |              | <0.02      | <0.02      |            |             |
| 5/24/2021  |              | <0.02        |              |              | <0.02        |            |            |            |             |
| 5/25/2021  | <0.02        |              |              | <0.02        |              |            |            |            |             |
| 10/26/2021 | <0.02        | <0.02        | <0.02        | <0.02        |              |            |            |            |             |
| 10/27/2021 |              |              |              |              |              |            |            |            |             |
| 11/1/2021  |              |              |              |              |              | <0.02      | <0.02      |            |             |
| 11/2/2021  |              |              |              |              | <0.02        |            |            | <0.02      | <0.02       |
| 5/24/2022  | <0.02        |              |              | <0.02        |              |            |            |            |             |
| 5/25/2022  |              | <0.02        | <0.02        |              | <0.02        | <0.02      | <0.02      | <0.02      | <0.02       |
| 10/31/2022 | <0.02        |              |              |              | <0.02        |            | <0.02      | <0.02      | <0.02       |
| 11/1/2022  |              | <0.02        | <0.02        |              |              | <0.02      |            |            |             |
| 11/2/2022  |              |              |              | <0.02        |              |            |            |            |             |
| 4/3/2023   |              |              |              | <0.02        | <0.02        |            |            |            |             |
| 4/4/2023   |              | <0.02        | <0.02        |              |              | <0.02      | <0.02      | <0.02      | <0.02       |
| 4/24/2023  | <0.02        |              |              |              |              |            |            |            |             |

# Time Series

Constituent: Lithium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-6 | BY-AP-MW-7 |
|------------|------------|------------|
| 3/1/2016   | <0.02      | <0.02      |
| 3/2/2016   |            |            |
| 4/19/2016  | <0.02      |            |
| 4/20/2016  |            | <0.02      |
| 6/7/2016   | <0.02      | <0.02      |
| 8/30/2016  | <0.02      |            |
| 8/31/2016  |            | <0.02      |
| 10/18/2016 |            |            |
| 10/19/2016 | <0.02      | <0.02      |
| 1/31/2017  | <0.02      | <0.02      |
| 5/2/2017   |            |            |
| 5/3/2017   | <0.02      | <0.02      |
| 6/6/2017   |            |            |
| 6/7/2017   | <0.02      | <0.02      |
| 1/24/2018  | <0.02      | <0.02      |
| 5/1/2018   |            |            |
| 5/2/2018   | <0.02      | 0.0108 (J) |
| 11/27/2018 |            |            |
| 11/28/2018 | <0.02      | <0.02      |
| 1/8/2019   |            |            |
| 5/29/2019  | <0.02      | <0.02      |
| 7/31/2019  |            |            |
| 9/30/2019  |            | <0.02      |
| 10/1/2019  | <0.02      |            |
| 10/2/2019  |            |            |
| 3/30/2020  |            | 0.0102 (J) |
| 3/31/2020  | <0.02      |            |
| 4/1/2020   |            |            |
| 9/1/2020   |            |            |
| 9/2/2020   | <0.02      | <0.02      |
| 5/17/2021  | <0.02      |            |
| 5/18/2021  |            | 0.0882     |
| 5/24/2021  |            |            |
| 5/25/2021  |            |            |
| 10/26/2021 |            |            |
| 10/27/2021 |            | <0.02      |
| 11/1/2021  |            |            |
| 11/2/2021  | <0.02      |            |
| 5/24/2022  |            | <0.02      |
| 5/25/2022  | <0.02      |            |
| 10/31/2022 | <0.02      | <0.02      |
| 11/1/2022  |            |            |
| 11/2/2022  |            |            |
| 4/3/2023   |            | <0.02      |
| 4/4/2023   | <0.02      |            |
| 4/24/2023  |            |            |



# Time Series

Constituent: Lithium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-7V | BY-AP-MW-8 | BY-AP-MW-8V | BY-AP-MW-9 | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|------------|-------------|------------|-------------|------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 2/23/2016  |             |            |             |            | <0.02           | <0.02           | <0.02           | <0.02           |              |
| 3/1/2016   |             | <0.02      |             | <0.02      |                 |                 |                 |                 |              |
| 4/19/2016  |             |            |             |            | <0.02           | <0.02           | <0.02           | <0.02           |              |
| 4/20/2016  |             | <0.02      |             | <0.02      |                 |                 |                 |                 |              |
| 6/6/2016   |             |            |             |            | <0.02           |                 |                 |                 | <0.02        |
| 6/7/2016   |             | <0.02      |             |            |                 | <0.02           | <0.02           |                 |              |
| 6/8/2016   |             |            |             | <0.02      |                 |                 |                 |                 |              |
| 8/30/2016  |             | <0.02      |             |            | <0.02           | <0.02           | <0.02           | <0.02           |              |
| 8/31/2016  |             |            |             | <0.02      |                 |                 |                 |                 |              |
| 10/18/2016 |             | <0.02      |             |            | <0.02           | <0.02           | <0.02           | <0.02           |              |
| 10/19/2016 |             |            |             | <0.02      |                 |                 |                 |                 |              |
| 1/31/2017  |             | <0.02      |             |            | <0.02           | <0.02           | <0.02           | <0.02           |              |
| 2/1/2017   |             |            |             | <0.02      |                 |                 |                 |                 |              |
| 5/2/2017   |             |            |             |            | <0.02           | <0.02           | <0.02           | <0.02           |              |
| 5/3/2017   |             | <0.02      |             | <0.02      |                 |                 |                 |                 |              |
| 6/6/2017   |             |            |             |            | <0.02           | <0.02           | <0.02           | <0.02           |              |
| 6/7/2017   |             | <0.02      |             | <0.02      |                 |                 |                 |                 |              |
| 1/23/2018  |             |            |             | <0.02      | <0.02           | <0.02           | <0.02           | <0.02           |              |
| 1/24/2018  |             | <0.02      |             |            |                 |                 |                 |                 |              |
| 5/1/2018   |             |            |             |            |                 | <0.02           | <0.02           | <0.02           |              |
| 5/2/2018   |             | <0.02      |             | <0.02      | <0.02           |                 |                 |                 |              |
| 11/26/2018 |             |            |             |            |                 |                 |                 |                 | <0.02        |
| 11/27/2018 |             | <0.02      |             |            | <0.02           | <0.02           | <0.02           |                 |              |
| 11/28/2018 |             |            |             | <0.02      |                 |                 |                 |                 |              |
| 1/9/2019   | 0.0662      |            | 0.0217      |            |                 |                 |                 |                 |              |
| 5/28/2019  |             |            |             |            |                 |                 |                 |                 | <0.02        |
| 5/29/2019  |             | <0.02      |             |            | <0.02           | <0.02           | <0.02           |                 |              |
| 5/30/2019  |             |            |             | <0.02      |                 |                 |                 |                 |              |
| 9/30/2019  |             | <0.02      |             | <0.02      |                 |                 |                 |                 |              |
| 10/1/2019  | <0.02       |            | <0.02       |            |                 |                 |                 |                 |              |
| 10/2/2019  |             |            |             |            | <0.02           | <0.02           | <0.02           | <0.02           |              |
| 12/2/2019  | <0.02       |            |             |            |                 |                 |                 |                 |              |
| 3/30/2020  | <0.02       | <0.02      | <0.02       |            |                 |                 |                 |                 |              |
| 3/31/2020  |             |            |             | <0.02      | <0.02           | <0.02           | <0.02           | <0.02           |              |
| 9/2/2020   | <0.02       | <0.02      | <0.02       | <0.02      |                 |                 |                 |                 | <0.02        |
| 9/8/2020   |             |            |             |            |                 |                 |                 | <0.02           |              |
| 9/9/2020   |             |            |             |            | <0.02           | <0.02           | <0.02           | <0.02           |              |
| 5/11/2021  |             | <0.02      |             |            |                 | <0.02           | <0.02           | <0.02           |              |
| 5/12/2021  |             |            |             |            | <0.02           |                 |                 |                 |              |
| 5/18/2021  | <0.02       |            | <0.02       | <0.02      |                 |                 |                 |                 |              |
| 5/24/2021  |             |            |             |            |                 |                 |                 |                 | <0.02        |
| 10/18/2021 |             |            |             |            |                 |                 | <0.02           | <0.02           |              |
| 10/19/2021 |             |            |             |            | <0.02           | <0.02           |                 |                 |              |
| 10/26/2021 |             | <0.02      | <0.02       |            |                 |                 |                 |                 |              |
| 10/27/2021 | 0.00746 (J) |            |             | <0.02      |                 |                 |                 |                 |              |
| 11/2/2021  |             |            |             |            |                 |                 |                 |                 | <0.02        |
| 5/23/2022  |             |            | <0.02       |            |                 |                 |                 |                 |              |
| 5/24/2022  | <0.02       | <0.02      |             | <0.02      |                 |                 |                 |                 |              |
| 5/25/2022  |             |            |             |            |                 |                 |                 |                 | <0.02        |
| 5/31/2022  |             |            |             |            | <0.02           | <0.02           | <0.02           | <0.02           |              |
| 10/31/2022 | <0.02       |            | <0.02       | <0.02      |                 |                 |                 |                 |              |
| 11/1/2022  |             |            |             |            | <0.02           | <0.02           | <0.02           | <0.02           | <0.02        |

# Time Series

Constituent: Lithium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

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|           | BY-AP-MW-7V | BY-AP-MW-8 | BY-AP-MW-8V | BY-AP-MW-9 | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|-----------|-------------|------------|-------------|------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 11/2/2022 |             | <0.02      |             |            |                 |                 |                 |                 |              |
| 4/3/2023  | <0.02       | <0.02      | 0.00904 (J) |            |                 |                 |                 |                 | <0.02        |
| 4/4/2023  |             |            |             | <0.02      |                 |                 |                 |                 |              |
| 4/12/2023 |             |            |             |            | <0.02           | <0.02           | <0.02           | <0.02           |              |

# Time Series

Constituent: Mercury (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

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-13V | BY-AP-MW-14 |
|------------|------------|-------------|--------------|-------------|-------------|--------------|-------------|--------------|-------------|
| 3/1/2016   |            | <0.0005     |              | <0.0005     |             |              |             |              |             |
| 3/2/2016   | <0.0005    |             |              |             | <0.0005     |              | <0.0005     |              | <0.0005     |
| 4/19/2016  | <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     |
| 8/30/2016  |            |             |              |             |             |              |             |              | <0.0005     |
| 8/31/2016  | <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     |              |             |
| 1/31/2017  | <0.0005    |             |              |             |             |              | <0.0005     |              | <0.0005     |
| 2/1/2017   |            | <0.0005     |              | <0.0005     | <0.0005     |              |             |              |             |
| 5/2/2017   | <0.0005    |             |              |             |             |              |             |              | <0.0005     |
| 5/3/2017   |            | <0.0005     |              | <0.0005     | <0.0005     |              | <0.0005     |              |             |
| 6/6/2017   | <0.0005    |             |              |             |             |              |             |              | <0.0005     |
| 6/7/2017   |            | <0.0005     |              | <0.0005     | <0.0005     |              | <0.0005     |              |             |
| 1/22/2018  |            |             |              |             |             |              | <0.0005     |              |             |
| 1/23/2018  |            | <0.0005     |              | <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     |              | <0.0005     |              | <0.0005     |
| 11/27/2018 |            |             |              |             |             |              |             |              | <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     |
| 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     |
| 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   |            |             |              |             |             |              |             |              |             |
| 9/1/2020   | <0.0005    | <0.0005     | <0.0005      | <0.0005     | <0.0005     | <0.0005      | <0.0005     |              |             |
| 9/2/2020   |            |             |              |             |             |              |             | <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     |             |              | <0.0005     | <0.0005      |             |
| 5/25/2021  |            |             |              |             |             |              |             |              | <0.0005     |
| 10/26/2021 |            |             |              |             |             |              | <0.0005     | <0.0005      |             |
| 10/27/2021 |            | <0.0005     | <0.0005      |             |             |              |             |              | <0.0005     |
| 11/1/2021  | <0.0005    |             |              |             | <0.0005     | <0.0005      |             |              |             |
| 11/2/2021  |            |             |              | <0.0005     |             |              |             |              |             |
| 5/23/2022  |            |             |              | <0.0005     | <0.0005     | <0.0005      |             |              |             |
| 5/24/2022  | <0.0005    | <0.0005     | <0.0005      |             |             |              | <0.0005     |              |             |
| 5/25/2022  |            |             |              |             |             |              |             | <0.0005      | <0.0005     |
| 11/1/2022  |            |             | <0.0005      | <0.0005     | <0.0005     | <0.0005      | <0.0005     | <0.0005      | <0.0005     |
| 11/2/2022  | <0.0005    | <0.0005     |              |             |             |              |             |              |             |
| 4/3/2023   | <0.0005    | <0.0005     | <0.0005      |             |             |              |             |              |             |
| 4/4/2023   |            |             |              | <0.0005     | <0.0005     | <0.0005      | <0.0005     | <0.0005      |             |
| 4/5/2023   |            |             |              |             |             |              |             |              | <0.0005     |

# Time Series

Constituent: Mercury (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-14V | BY-AP-MW-15 |
|------------|--------------|-------------|
| 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  |              | <0.0005     |
| 1/23/2018  |              |             |
| 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  |              |             |
| 9/30/2019  |              |             |
| 10/1/2019  |              | <0.0005     |
| 10/2/2019  |              |             |
| 3/30/2020  |              |             |
| 3/31/2020  |              |             |
| 4/1/2020   |              | <0.0005     |
| 9/1/2020   |              |             |
| 9/2/2020   | <0.0005      | <0.0005     |
| 5/11/2021  |              | <0.0005     |
| 5/18/2021  |              |             |
| 5/19/2021  |              |             |
| 5/25/2021  | <0.0005      |             |
| 10/26/2021 | <0.0005      | <0.0005     |
| 10/27/2021 |              |             |
| 11/1/2021  |              |             |
| 11/2/2021  |              |             |
| 5/23/2022  |              |             |
| 5/24/2022  | <0.0005      |             |
| 5/25/2022  |              | <0.0005     |
| 11/1/2022  | <0.0005      | <0.0005     |
| 11/2/2022  |              |             |
| 4/3/2023   |              | <0.0005     |
| 4/4/2023   | <0.0005      |             |
| 4/5/2023   |              |             |

# Time Series

Constituent: Mercury (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-15V | BY-AP-MW-16 | BY-AP-MW-16V | BY-AP-MW-17H | BY-AP-MW-17V | BY-AP-MW-18H | BY-AP-MW-19H | BY-AP-MW-1V | BY-AP-MW-2 |
|------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|-------------|------------|
| 3/2/2016   |              | <0.0005     |              |              |              |              |              |             | <0.0005    |
| 4/19/2016  |              | <0.0005     |              |              |              |              |              |             | <0.0005    |
| 6/8/2016   |              | <0.0005     |              |              |              |              |              |             | <0.0005    |
| 8/31/2016  |              | <0.0005     |              |              |              |              |              |             | <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    |
| 1/23/2018  |              | <0.0005     |              |              |              |              |              |             | <0.0005    |
| 1/24/2018  |              |             |              |              |              |              |              |             | <0.0005    |
| 5/1/2018   |              | <0.0005     |              |              |              |              |              |             | <0.0005    |
| 11/27/2018 |              | <0.0005     |              |              |              |              |              |             | <0.0005    |
| 1/8/2019   |              |             |              |              |              |              |              | <0.0005     |            |
| 3/20/2019  |              |             |              |              |              | <0.0005      |              |             |            |
| 5/29/2019  |              | <0.0005     |              |              |              |              |              |             | <0.0005    |
| 7/31/2019  | <0.0005      |             |              | <0.0005      |              |              | <0.0005      |             |            |
| 10/1/2019  | <0.0005      | <0.0005     |              |              |              | <0.0005      | <0.0005      |             | <0.0005    |
| 10/2/2019  |              |             |              | <0.0005      |              |              |              | <0.0005     |            |
| 3/30/2020  |              |             |              |              |              |              |              | <0.0005     |            |
| 3/31/2020  |              | <0.0005     |              |              |              |              |              |             | <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      | <0.0005     |            |
| 9/2/2020   |              | <0.0005     | <0.0005      |              |              |              |              |             |            |
| 5/17/2021  |              |             |              | <0.0005      |              |              |              |             |            |
| 5/18/2021  |              |             |              |              | <0.0005      |              |              | <0.0005     | <0.0005    |
| 5/19/2021  |              | <0.0005     | <0.0005      |              |              | <0.0005      |              |             |            |
| 5/25/2021  | <0.0005      |             |              |              |              |              | <0.0005      |             |            |
| 10/25/2021 |              |             |              | <0.0005      | <0.0005      | <0.0005      | <0.0005      |             |            |
| 10/26/2021 | <0.0005      |             | <0.0005      |              |              |              |              |             |            |
| 11/1/2021  |              | <0.0005     |              |              |              |              |              | <0.0005     | <0.0005    |
| 5/23/2022  |              |             |              |              |              | <0.0005      |              |             |            |
| 5/24/2022  | <0.0005      |             |              |              |              |              | <0.0005      | <0.0005     | <0.0005    |
| 5/25/2022  |              | <0.0005     | <0.0005      | <0.0005      | <0.0005      |              |              |             |            |
| 10/31/2022 |              |             |              | <0.0005      | <0.0005      | <0.0005      | <0.0005      |             |            |
| 11/1/2022  |              | <0.0005     | <0.0005      |              |              |              |              | <0.0005     |            |
| 11/2/2022  | <0.0005      |             |              |              |              |              |              |             | <0.0005    |
| 4/3/2023   |              |             |              |              |              |              |              |             | <0.0005    |
| 4/4/2023   |              |             | <0.0005      | <0.0005      | <0.0005      |              |              | <0.0005     |            |
| 4/5/2023   |              | <0.0005     |              |              |              | <0.0005      |              |             |            |
| 4/24/2023  | <0.0005      |             |              |              |              |              | <0.0005      |             |            |

# Time Series

Constituent: Mercury (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-20H | BY-AP-MW-20V |
|------------|--------------|--------------|
| 3/2/2016   |              |              |
| 4/19/2016  |              |              |
| 6/8/2016   |              |              |
| 8/31/2016  |              |              |
| 10/19/2016 |              |              |
| 1/31/2017  |              |              |
| 5/2/2017   |              |              |
| 6/6/2017   |              |              |
| 1/23/2018  |              |              |
| 1/24/2018  |              |              |
| 5/1/2018   |              |              |
| 11/27/2018 |              |              |
| 1/8/2019   |              |              |
| 3/20/2019  |              |              |
| 5/29/2019  |              |              |
| 7/31/2019  | <0.0005      |              |
| 10/1/2019  | <0.0005      |              |
| 10/2/2019  |              |              |
| 3/30/2020  |              |              |
| 3/31/2020  |              |              |
| 4/1/2020   | <0.0005      |              |
| 8/31/2020  |              |              |
| 9/1/2020   | <0.0005      | <0.0005      |
| 9/2/2020   |              |              |
| 5/17/2021  |              |              |
| 5/18/2021  |              |              |
| 5/19/2021  | <0.0005      | <0.0005      |
| 5/25/2021  |              |              |
| 10/25/2021 |              |              |
| 10/26/2021 | <0.0005      |              |
| 11/1/2021  |              | <0.0005      |
| 5/23/2022  | <0.0005      |              |
| 5/24/2022  |              | <0.0005      |
| 5/25/2022  |              |              |
| 10/31/2022 | <0.0005      |              |
| 11/1/2022  |              | <0.0005      |
| 11/2/2022  |              |              |
| 4/3/2023   |              |              |
| 4/4/2023   |              |              |
| 4/5/2023   |              |              |
| 4/24/2023  | <0.0005      | <0.0005      |

# Time Series

Constituent: Mercury (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-22H | BY-AP-MW-23H | BY-AP-MW-23V | BY-AP-MW-24H | BY-AP-MW-25H | BY-AP-MW-3 | BY-AP-MW-4 | BY-AP-MW-5 | BY-AP-MW-5V |
|------------|--------------|--------------|--------------|--------------|--------------|------------|------------|------------|-------------|
| 3/1/2016   |              |              |              |              |              |            | <0.0005    | <0.0005    |             |
| 3/2/2016   |              |              |              |              |              | <0.0005    |            |            |             |
| 4/19/2016  |              |              |              |              |              | <0.0005    | <0.0005    |            |             |
| 4/20/2016  |              |              |              |              |              |            |            | <0.0005    |             |
| 6/7/2016   |              |              |              |              |              | <0.0005    | <0.0005    | <0.0005    |             |
| 8/30/2016  |              |              |              |              |              |            | <0.0005    | <0.0005    |             |
| 8/31/2016  |              |              |              |              |              | <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    |             |
| 1/24/2018  |              |              |              |              |              | <0.0005    | <0.0005    | <0.0005    |             |
| 5/1/2018   |              |              |              |              |              | <0.0005    | <0.0005    |            |             |
| 5/2/2018   |              |              |              |              |              |            |            | <0.0005    |             |
| 11/27/2018 |              |              |              |              |              | <0.0005    | <0.0005    | <0.0005    |             |
| 11/28/2018 |              |              |              |              |              |            |            |            |             |
| 1/8/2019   |              |              |              | <0.0005      |              |            |            |            | <0.0005     |
| 5/29/2019  |              |              |              |              |              | <0.0005    | <0.0005    | <0.0005    |             |
| 7/31/2019  | <0.0005      | <0.0005      |              |              |              |            |            |            |             |
| 9/30/2019  |              |              |              |              |              |            |            |            |             |
| 10/1/2019  | <0.0005      | <0.0005      |              |              |              | <0.0005    | <0.0005    | <0.0005    |             |
| 10/2/2019  |              |              |              | <0.0005      |              |            |            |            | <0.0005     |
| 3/30/2020  |              |              |              |              |              |            |            |            |             |
| 3/31/2020  |              |              |              | <0.0005      |              | <0.0005    | <0.0005    | <0.0005    | <0.0005     |
| 4/1/2020   |              | <0.0005      |              |              |              |            |            |            |             |
| 9/1/2020   | <0.0005      | <0.0005      | <0.0005      |              |              | <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    | <0.0005    |            |             |
| 5/24/2021  |              | <0.0005      |              |              | <0.0005      |            |            |            |             |
| 5/25/2021  | <0.0005      |              |              | <0.0005      |              |            |            |            |             |
| 10/26/2021 | <0.0005      | <0.0005      | <0.0005      | <0.0005      |              |            |            |            |             |
| 10/27/2021 |              |              |              |              |              |            |            |            |             |
| 11/1/2021  |              |              |              |              |              | <0.0005    | <0.0005    |            |             |
| 11/2/2021  |              |              |              |              | <0.0005      |            |            | <0.0005    | <0.0005     |
| 5/24/2022  | <0.0005      |              |              | <0.0005      |              |            |            |            |             |
| 5/25/2022  |              | <0.0005      | <0.0005      |              | <0.0005      | <0.0005    | <0.0005    | <0.0005    | <0.0005     |
| 10/31/2022 | <0.0005      |              |              |              | <0.0005      |            | <0.0005    | <0.0005    | <0.0005     |
| 11/1/2022  |              | <0.0005      | <0.0005      |              |              | <0.0005    |            |            |             |
| 11/2/2022  |              |              |              | <0.0005      |              |            |            |            |             |
| 4/3/2023   |              |              |              | <0.0005      | <0.0005      |            |            |            |             |
| 4/4/2023   |              | <0.0005      | <0.0005      |              |              | <0.0005    | <0.0005    | <0.0005    | <0.0005     |
| 4/24/2023  | <0.0005      |              |              |              |              |            |            |            |             |

# Time Series

Constituent: Mercury (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-6 | BY-AP-MW-7 |
|------------|------------|------------|
| 3/1/2016   | <0.0005    | <0.0005    |
| 3/2/2016   |            |            |
| 4/19/2016  | <0.0005    |            |
| 4/20/2016  |            | <0.0005    |
| 6/7/2016   | <0.0005    | <0.0005    |
| 8/30/2016  | <0.0005    |            |
| 8/31/2016  |            | <0.0005    |
| 10/18/2016 |            |            |
| 10/19/2016 | <0.0005    | <0.0005    |
| 1/31/2017  | <0.0005    | <0.0005    |
| 5/2/2017   |            |            |
| 5/3/2017   | <0.0005    | <0.0005    |
| 6/6/2017   |            |            |
| 6/7/2017   | <0.0005    | <0.0005    |
| 1/24/2018  | <0.0005    | <0.0005    |
| 5/1/2018   |            |            |
| 5/2/2018   | <0.0005    | <0.0005    |
| 11/27/2018 |            |            |
| 11/28/2018 | <0.0005    | <0.0005    |
| 1/8/2019   |            |            |
| 5/29/2019  | <0.0005    | <0.0005    |
| 7/31/2019  |            |            |
| 9/30/2019  |            | <0.0005    |
| 10/1/2019  | <0.0005    |            |
| 10/2/2019  |            |            |
| 3/30/2020  |            | <0.0005    |
| 3/31/2020  | <0.0005    |            |
| 4/1/2020   |            |            |
| 9/1/2020   |            |            |
| 9/2/2020   | <0.0005    | <0.0005    |
| 5/17/2021  | <0.0005    |            |
| 5/18/2021  |            | <0.0005    |
| 5/24/2021  |            |            |
| 5/25/2021  |            |            |
| 10/26/2021 |            |            |
| 10/27/2021 |            | <0.0005    |
| 11/1/2021  |            |            |
| 11/2/2021  | <0.0005    |            |
| 5/24/2022  |            | <0.0005    |
| 5/25/2022  | <0.0005    |            |
| 10/31/2022 | <0.0005    | <0.0005    |
| 11/1/2022  |            |            |
| 11/2/2022  |            |            |
| 4/3/2023   |            | <0.0005    |
| 4/4/2023   | <0.0005    |            |
| 4/24/2023  |            |            |



# Time Series

Constituent: Mercury (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-7V | BY-AP-MW-8 | BY-AP-MW-8V | BY-AP-MW-9 | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|------------|-------------|------------|-------------|------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 2/23/2016  |             |            |             |            | <0.0005         | <0.0005         | <0.0005         | <0.0005         |              |
| 3/1/2016   |             | <0.0005    |             | <0.0005    |                 |                 |                 |                 |              |
| 4/19/2016  |             |            |             |            | <0.0005         | <0.0005         | <0.0005         | <0.0005         |              |
| 4/20/2016  |             | <0.0005    |             | <0.0005    |                 |                 |                 |                 |              |
| 6/6/2016   |             |            |             |            | <0.0005         |                 |                 |                 | <0.0005      |
| 6/7/2016   |             | <0.0005    |             |            |                 | <0.0005         | <0.0005         |                 |              |
| 6/8/2016   |             |            |             | <0.0005    |                 |                 |                 |                 |              |
| 8/30/2016  |             | <0.0005    |             |            | <0.0005         | <0.0005         | <0.0005         | <0.0005         |              |
| 8/31/2016  |             |            |             | <0.0005    |                 |                 |                 |                 |              |
| 10/18/2016 |             | <0.0005    |             |            | <0.0005         | <0.0005         | <0.0005         | <0.0005         |              |
| 10/19/2016 |             |            |             | <0.0005    |                 |                 |                 |                 |              |
| 1/31/2017  |             | <0.0005    |             |            | <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    |             | <0.0005    |                 |                 |                 |                 |              |
| 6/6/2017   |             |            |             |            | <0.0005         | <0.0005         | <0.0005         | <0.0005         |              |
| 6/7/2017   |             | <0.0005    |             | <0.0005    |                 |                 |                 |                 |              |
| 1/23/2018  |             |            |             | <0.0005    | <0.0005         | <0.0005         | <0.0005         | <0.0005         |              |
| 1/24/2018  |             | <0.0005    |             |            |                 |                 |                 |                 |              |
| 5/1/2018   |             |            |             |            |                 | <0.0005         | <0.0005         | <0.0005         |              |
| 5/2/2018   |             | <0.0005    |             | <0.0005    | <0.0005         |                 |                 |                 |              |
| 11/26/2018 |             |            |             |            |                 |                 |                 |                 | <0.0005      |
| 11/27/2018 |             | <0.0005    |             |            | <0.0005         | <0.0005         | <0.0005         |                 |              |
| 11/28/2018 |             |            |             | <0.0005    |                 |                 |                 |                 |              |
| 1/9/2019   | <0.0005     |            | <0.0005     |            |                 |                 |                 |                 |              |
| 5/28/2019  |             |            |             |            |                 |                 |                 |                 | <0.0005      |
| 5/29/2019  |             | <0.0005    |             |            | <0.0005         | <0.0005         | <0.0005         |                 |              |
| 5/30/2019  |             |            |             | <0.0005    |                 |                 |                 |                 |              |
| 9/30/2019  |             | <0.0005    |             | <0.0005    |                 |                 |                 |                 |              |
| 10/1/2019  | <0.0005     |            | <0.0005     |            |                 |                 |                 |                 |              |
| 10/2/2019  |             |            |             |            | <0.0005         | <0.0005         | <0.0005         | <0.0005         |              |
| 3/30/2020  | <0.0005     | <0.0005    | <0.0005     |            |                 |                 |                 |                 |              |
| 3/31/2020  |             |            |             | <0.0005    | <0.0005         | <0.0005         | <0.0005         | <0.0005         |              |
| 9/2/2020   | <0.0005     | <0.0005    | <0.0005     | <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         | <0.0005         |              |
| 5/12/2021  |             |            |             |            | <0.0005         |                 |                 |                 |              |
| 5/18/2021  | <0.0005     |            | <0.0005     | <0.0005    |                 |                 |                 |                 |              |
| 5/24/2021  |             |            |             |            |                 |                 |                 |                 | <0.0005      |
| 10/18/2021 |             |            |             |            |                 |                 | <0.0005         | <0.0005         |              |
| 10/19/2021 |             |            |             |            | <0.0005         | <0.0005         |                 |                 |              |
| 10/26/2021 |             | <0.0005    | <0.0005     |            |                 |                 |                 |                 |              |
| 10/27/2021 | <0.0005     |            |             | <0.0005    |                 |                 |                 |                 |              |
| 11/2/2021  |             |            |             |            |                 |                 |                 |                 | <0.0005      |
| 5/23/2022  |             |            | <0.0005     |            |                 |                 |                 |                 |              |
| 5/24/2022  | <0.0005     | <0.0005    |             | <0.0005    |                 |                 |                 |                 |              |
| 5/25/2022  |             |            |             |            |                 |                 |                 |                 | <0.0005      |
| 5/31/2022  |             |            |             |            | <0.0005         | <0.0005         | <0.0005         | <0.0005         |              |
| 10/31/2022 | <0.0005     |            | <0.0005     | <0.0005    |                 |                 |                 |                 |              |
| 11/1/2022  |             |            |             |            | <0.0005         | <0.0005         | <0.0005         | <0.0005         | <0.0005      |
| 11/2/2022  |             | <0.0005    |             |            |                 |                 |                 |                 |              |

# Time Series

Constituent: Mercury (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

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|           | BY-AP-MW-7V | BY-AP-MW-8 | BY-AP-MW-8V | BY-AP-MW-9 | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|-----------|-------------|------------|-------------|------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 4/3/2023  | <0.0005     | <0.0005    | <0.0005     |            |                 |                 |                 |                 | <0.0005      |
| 4/4/2023  |             |            |             | <0.0005    |                 |                 |                 |                 |              |
| 4/12/2023 |             |            |             |            | <0.0005         | <0.0005         | <0.0005         | <0.0005         |              |

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

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-13V | BY-AP-MW-14 |
|------------|--------------|-------------|--------------|-------------|-------------|--------------|-------------|--------------|-------------|
| 3/1/2016   |              | <0.01015    |              | <0.01015    |             |              |             |              |             |
| 3/2/2016   | <0.01015     |             |              |             | <0.01015    |              | <0.01       |              | <0.01015    |
| 4/19/2016  | <0.01015     |             |              |             |             |              |             |              |             |
| 4/20/2016  |              | <0.01015    |              | <0.01015    | <0.01015    |              | <0.01       |              | <0.01015    |
| 6/8/2016   | <0.01015     | <0.01015    |              | <0.01015    | <0.01015    |              | <0.01       |              | <0.01015    |
| 8/30/2016  |              |             |              |             |             |              |             |              | <0.01015    |
| 8/31/2016  | <0.01015     | <0.01015    |              | <0.01015    | <0.01015    |              | <0.01       |              |             |
| 10/18/2016 |              |             |              |             |             |              |             |              | <0.01015    |
| 10/19/2016 | <0.01015     | <0.01015    |              | <0.01015    | <0.01015    |              | <0.01       |              |             |
| 1/31/2017  | <0.01015     |             |              |             |             |              | <0.01       |              | <0.01015    |
| 2/1/2017   |              | <0.01015    |              | <0.01015    | <0.01015    |              |             |              |             |
| 5/2/2017   | <0.01015     |             |              |             |             |              |             |              | <0.01015    |
| 5/3/2017   |              | <0.01015    |              | <0.01015    | <0.01015    |              | <0.01       |              |             |
| 6/6/2017   | <0.01015     |             |              |             |             |              |             |              | <0.01015    |
| 6/7/2017   |              | <0.01015    |              | <0.01015    | <0.01015    |              | <0.01       |              |             |
| 1/22/2018  |              |             |              |             |             |              | <0.01       |              |             |
| 1/23/2018  |              | <0.01015    |              | <0.01015    | <0.01015    |              |             |              | <0.01015    |
| 1/24/2018  | <0.01015     |             |              |             |             |              |             |              |             |
| 5/1/2018   | <0.01015     |             |              |             |             |              |             |              |             |
| 5/2/2018   |              | <0.01015    |              | <0.01015    | <0.01015    |              | <0.01       |              | <0.01015    |
| 11/27/2018 |              |             |              |             |             |              |             |              | <0.01015    |
| 11/28/2018 | <0.01015     | <0.01015    |              | <0.01015    | <0.01015    |              | <0.01       |              |             |
| 1/8/2019   |              |             | 0.00335 (J)  |             |             | 0.00303 (J)  |             |              |             |
| 5/29/2019  | <0.01015     |             |              | <0.01015    | <0.01015    |              | <0.01       |              | <0.01015    |
| 5/30/2019  |              | <0.01015    |              |             |             |              |             |              |             |
| 9/30/2019  |              | <0.01015    |              | <0.01015    |             |              |             |              |             |
| 10/1/2019  | <0.01015     |             | <0.01015     |             | <0.01015    |              | <0.01       |              | <0.01015    |
| 10/2/2019  |              |             |              |             |             | <0.01015     |             |              |             |
| 3/30/2020  | <0.01015     |             |              |             |             |              |             |              |             |
| 3/31/2020  |              | <0.01015    | <0.01015     | <0.01015    | <0.01015    | <0.01015     | <0.01       |              | <0.01015    |
| 4/1/2020   |              |             |              |             |             |              |             |              |             |
| 9/1/2020   | <0.01015     | <0.01015    | <0.01015     | <0.01015    | <0.01015    | <0.01015     | <0.01       |              |             |
| 9/2/2020   |              |             |              |             |             |              |             | <0.01015     | <0.01015    |
| 5/11/2021  |              | <0.01015    |              |             |             |              |             |              |             |
| 5/18/2021  | 0.000106 (J) |             | 0.000148 (J) |             | 0.000947    | 0.00106      |             |              |             |
| 5/19/2021  |              |             |              | 0.00652     |             |              | 0.000437    | 0.000642     |             |
| 5/25/2021  |              |             |              |             |             |              |             |              | 0.000701    |
| 10/26/2021 |              |             |              |             |             |              | 0.00043     | 0.00135      |             |
| 10/27/2021 |              | <0.01015    | 0.00014 (J)  |             |             |              |             |              | 0.00053     |
| 11/1/2021  | 8E-05 (J)    |             |              |             | 0.00099     | 0.00118      |             |              |             |
| 11/2/2021  |              |             |              | 0.00161     |             |              |             |              |             |
| 5/23/2022  |              |             |              | 0.00141     | 0.00109     | 0.00123      |             |              |             |
| 5/24/2022  | <0.01015     | <0.01015    | 0.00011 (J)  |             |             |              | 0.00356     |              |             |
| 5/25/2022  |              |             |              |             |             |              |             | 0.0008       | 0.00052     |
| 11/1/2022  |              |             | 0.000103 (J) | 0.000972    | 0.000942    | 0.00112      | 0.00585     | 0.000573     | 0.000643    |
| 11/2/2022  | <0.01015     | <0.01015    |              |             |             |              |             |              |             |
| 4/3/2023   | <0.01015     | <0.01015    | <0.01015     |             |             |              |             |              |             |
| 4/4/2023   |              |             |              | <0.01015    | <0.01015    | <0.01015     | 0.0108      | <0.01015     |             |
| 4/5/2023   |              |             |              |             |             |              |             |              | <0.01015    |

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-14V | BY-AP-MW-15 |
|------------|--------------|-------------|
| 3/1/2016   |              |             |
| 3/2/2016   |              | 0.00238 (J) |
| 4/19/2016  |              | 0.00203 (J) |
| 4/20/2016  |              |             |
| 6/8/2016   |              | <0.01015    |
| 8/30/2016  |              |             |
| 8/31/2016  |              | <0.01015    |
| 10/18/2016 |              |             |
| 10/19/2016 |              | <0.01015    |
| 1/31/2017  |              | <0.01015    |
| 2/1/2017   |              |             |
| 5/2/2017   |              | 0.00201 (J) |
| 5/3/2017   |              |             |
| 6/6/2017   |              | <0.01015    |
| 6/7/2017   |              |             |
| 1/22/2018  |              | 0.00211 (J) |
| 1/23/2018  |              |             |
| 1/24/2018  |              |             |
| 5/1/2018   |              | <0.01015    |
| 5/2/2018   |              |             |
| 11/27/2018 |              | <0.01015    |
| 11/28/2018 |              |             |
| 1/8/2019   |              |             |
| 5/29/2019  |              | <0.01015    |
| 5/30/2019  |              |             |
| 9/30/2019  |              |             |
| 10/1/2019  |              | <0.01015    |
| 10/2/2019  |              |             |
| 3/30/2020  |              |             |
| 3/31/2020  |              |             |
| 4/1/2020   |              | <0.01015    |
| 9/1/2020   |              |             |
| 9/2/2020   | 0.00229 (J)  | 0.00209 (J) |
| 5/11/2021  |              | 0.00171     |
| 5/18/2021  |              |             |
| 5/19/2021  |              |             |
| 5/25/2021  | 0.00135      |             |
| 10/26/2021 | 0.0012       | 0.00206     |
| 10/27/2021 |              |             |
| 11/1/2021  |              |             |
| 11/2/2021  |              |             |
| 5/23/2022  |              |             |
| 5/24/2022  | 0.0031       |             |
| 5/25/2022  |              | 0.0018      |
| 11/1/2022  | 0.00119      | 0.00173     |
| 11/2/2022  |              |             |
| 4/3/2023   |              | <0.01015    |
| 4/4/2023   | <0.01015     |             |
| 4/5/2023   |              |             |

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-15V | BY-AP-MW-16  | BY-AP-MW-16V | BY-AP-MW-17H | BY-AP-MW-17V | BY-AP-MW-18H | BY-AP-MW-19H | BY-AP-MW-1V | BY-AP-MW-2 |
|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|------------|
| 3/2/2016   |              | <0.01015     |              |              |              |              |              |             | <0.01015   |
| 4/19/2016  |              | <0.01015     |              |              |              |              |              |             | <0.01015   |
| 6/8/2016   |              | <0.01015     |              |              |              |              |              |             | <0.01015   |
| 8/31/2016  |              | <0.01015     |              |              |              |              |              |             | <0.01015   |
| 10/19/2016 |              | <0.01015     |              |              |              |              |              |             | <0.01015   |
| 1/31/2017  |              | <0.01015     |              |              |              |              |              |             | <0.01015   |
| 5/2/2017   |              | <0.01015     |              |              |              |              |              |             | <0.01015   |
| 6/6/2017   |              | <0.01015     |              |              |              |              |              |             | <0.01015   |
| 1/23/2018  |              | <0.01015     |              |              |              |              |              |             | <0.01015   |
| 1/24/2018  |              |              |              |              |              |              |              |             | <0.01015   |
| 5/1/2018   |              | <0.01015     |              |              |              |              |              |             | <0.01015   |
| 11/27/2018 |              | <0.01015     |              |              |              |              |              |             | <0.01015   |
| 1/8/2019   |              |              |              |              |              |              |              | <0.01015    |            |
| 3/20/2019  |              |              |              |              |              | <0.01015     |              |             |            |
| 5/29/2019  |              | <0.01015     |              |              |              |              |              |             | <0.01015   |
| 7/31/2019  | <0.01015     |              |              | <0.01015     |              |              | <0.01015     |             |            |
| 10/1/2019  | <0.01015     | <0.01015     |              |              |              | <0.01015     | <0.01015     |             | <0.01015   |
| 10/2/2019  |              |              |              | <0.01015     |              |              |              | <0.01015    |            |
| 3/30/2020  |              |              |              |              |              |              |              | <0.01015    |            |
| 3/31/2020  |              | <0.01015     |              |              |              |              |              |             | <0.01015   |
| 4/1/2020   |              |              |              | <0.01015     |              | <0.01015     |              |             |            |
| 8/31/2020  |              |              |              |              |              |              |              |             | <0.01015   |
| 9/1/2020   | <0.01015     |              |              | <0.01015     | <0.01015     | <0.01015     | <0.01015     | <0.01015    |            |
| 9/2/2020   |              | <0.01015     | <0.01015     |              |              |              |              |             |            |
| 5/17/2021  |              |              |              | 0.000469     |              |              |              |             |            |
| 5/18/2021  |              |              |              |              | 0.000571     |              |              | 0.00018 (J) | <0.01015   |
| 5/19/2021  |              | 0.000136 (J) | <0.01015     |              |              | 0.00025      |              |             |            |
| 5/25/2021  | 0.000106 (J) |              |              |              |              |              | 0.000124 (J) |             |            |
| 10/25/2021 |              |              |              | 0.00078      | 0.00088      | 0.00025      | 8E-05 (J)    |             |            |
| 10/26/2021 | 0.00011 (J)  |              | <0.01015     |              |              |              |              |             |            |
| 11/1/2021  |              | <0.01015     |              |              |              |              |              | 0.00013 (J) | <0.01015   |
| 5/23/2022  |              |              |              |              |              | 0.00036      |              |             |            |
| 5/24/2022  | <0.01015     |              |              |              |              |              | <0.01015     | 0.00011 (J) | <0.01015   |
| 5/25/2022  |              | <0.01015     | <0.01015     | 0.00045      | 0.00043      |              |              |             |            |
| 10/31/2022 |              |              |              | 0.000432     | 0.000535     | 0.000165 (J) | 0.000139 (J) |             |            |
| 11/1/2022  |              | <0.01015     | <0.01015     |              |              |              |              | <0.01015    |            |
| 11/2/2022  | <0.01015     |              |              |              |              |              |              |             | <0.01015   |
| 4/3/2023   |              |              |              |              |              |              |              |             | <0.01015   |
| 4/4/2023   |              |              | <0.01015     | <0.01015     | <0.01015     |              |              | <0.01015    |            |
| 4/5/2023   |              | <0.01015     |              |              |              | <0.01015     |              |             |            |
| 4/24/2023  | <0.01015     |              |              |              |              |              | <0.01015     |             |            |

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-20H | BY-AP-MW-20V |
|------------|--------------|--------------|
| 3/2/2016   |              |              |
| 4/19/2016  |              |              |
| 6/8/2016   |              |              |
| 8/31/2016  |              |              |
| 10/19/2016 |              |              |
| 1/31/2017  |              |              |
| 5/2/2017   |              |              |
| 6/6/2017   |              |              |
| 1/23/2018  |              |              |
| 1/24/2018  |              |              |
| 5/1/2018   |              |              |
| 11/27/2018 |              |              |
| 1/8/2019   |              |              |
| 3/20/2019  |              |              |
| 5/29/2019  |              |              |
| 7/31/2019  | <0.01015     |              |
| 10/1/2019  | <0.01015     |              |
| 10/2/2019  |              |              |
| 3/30/2020  |              |              |
| 3/31/2020  |              |              |
| 4/1/2020   | <0.01015     |              |
| 8/31/2020  |              |              |
| 9/1/2020   | <0.01015     | <0.01015     |
| 9/2/2020   |              |              |
| 5/17/2021  |              |              |
| 5/18/2021  |              |              |
| 5/19/2021  | 0.000503     | 0.00155      |
| 5/25/2021  |              |              |
| 10/25/2021 |              |              |
| 10/26/2021 | 0.00048      |              |
| 11/1/2021  |              | 0.00181      |
| 5/23/2022  | 0.00054      |              |
| 5/24/2022  |              | 0.00164      |
| 5/25/2022  |              |              |
| 10/31/2022 | 0.000556     |              |
| 11/1/2022  |              | 0.00138      |
| 11/2/2022  |              |              |
| 4/3/2023   |              |              |
| 4/4/2023   |              |              |
| 4/5/2023   |              |              |
| 4/24/2023  | <0.01015     | <0.01015     |

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-22H | BY-AP-MW-23H | BY-AP-MW-23V | BY-AP-MW-24H | BY-AP-MW-25H | BY-AP-MW-3 | BY-AP-MW-4 | BY-AP-MW-5  | BY-AP-MW-5V |
|------------|--------------|--------------|--------------|--------------|--------------|------------|------------|-------------|-------------|
| 3/1/2016   |              |              |              |              |              |            | <0.01015   | <0.01015    |             |
| 3/2/2016   |              |              |              |              |              | <0.01015   |            |             |             |
| 4/19/2016  |              |              |              |              |              | <0.01015   | <0.01015   |             |             |
| 4/20/2016  |              |              |              |              |              |            |            | <0.01015    |             |
| 6/7/2016   |              |              |              |              |              | <0.01015   | <0.01015   | <0.01015    |             |
| 8/30/2016  |              |              |              |              |              |            | <0.01015   | <0.01015    |             |
| 8/31/2016  |              |              |              |              |              | <0.01015   |            |             |             |
| 10/18/2016 |              |              |              |              |              |            |            | <0.01015    |             |
| 10/19/2016 |              |              |              |              |              | <0.01015   | <0.01015   |             |             |
| 1/31/2017  |              |              |              |              |              | <0.01015   | <0.01015   | <0.01015    |             |
| 5/2/2017   |              |              |              |              |              | <0.01015   | <0.01015   |             |             |
| 5/3/2017   |              |              |              |              |              |            |            | <0.01015    |             |
| 6/6/2017   |              |              |              |              |              | <0.01015   | <0.01015   |             |             |
| 6/7/2017   |              |              |              |              |              |            |            | <0.01015    |             |
| 1/24/2018  |              |              |              |              |              | <0.01015   | <0.01015   | <0.01015    |             |
| 5/1/2018   |              |              |              |              |              | <0.01015   | <0.01015   |             |             |
| 5/2/2018   |              |              |              |              |              |            |            | <0.01015    |             |
| 11/27/2018 |              |              |              |              |              | <0.01015   | <0.01015   | <0.01015    |             |
| 11/28/2018 |              |              |              |              |              |            |            |             |             |
| 1/8/2019   |              |              |              | 0.00399 (J)  |              |            |            |             | <0.01015    |
| 5/29/2019  |              |              |              |              |              | <0.01015   | <0.01015   | <0.01015    |             |
| 7/31/2019  | 0.00426 (J)  | <0.01015     |              |              |              |            |            |             |             |
| 9/30/2019  |              |              |              |              |              |            |            |             |             |
| 10/1/2019  | <0.01015     | <0.01015     |              |              |              | <0.01015   | <0.01015   | <0.01015    |             |
| 10/2/2019  |              |              |              | <0.01015     |              |            |            |             | <0.01015    |
| 3/30/2020  |              |              |              |              |              |            |            |             |             |
| 3/31/2020  |              |              |              | <0.01015     |              | <0.01015   | <0.01015   | <0.01015    | <0.01015    |
| 4/1/2020   |              | <0.01015     |              |              |              |            |            |             |             |
| 9/1/2020   | <0.01015     | <0.01015     | <0.01015     |              |              | <0.01015   | <0.01015   | <0.01015    | <0.01015    |
| 9/2/2020   |              |              |              | <0.01015     | <0.01015     |            |            |             |             |
| 5/17/2021  |              |              | 0.00147      |              |              |            |            |             |             |
| 5/18/2021  |              |              |              |              |              | <0.01015   | <0.01015   |             |             |
| 5/24/2021  |              | 0.00069      |              |              | 0.000102 (J) |            |            |             |             |
| 5/25/2021  | 0.00137      |              |              | 0.000869     |              |            |            |             |             |
| 10/26/2021 | 0.00136      | 0.00035      | 0.00124      | 0.00096      |              |            |            |             |             |
| 10/27/2021 |              |              |              |              |              |            |            |             |             |
| 11/1/2021  |              |              |              |              |              | <0.01015   | <0.01015   |             |             |
| 11/2/2021  |              |              |              |              | 0.00014 (J)  |            |            | 0.00012 (J) | 8E-05 (J)   |
| 5/24/2022  | 0.00145      |              |              | 0.00092      |              |            |            |             |             |
| 5/25/2022  |              | 0.00013 (J)  | 0.00142      |              | 0.0001 (J)   | <0.01015   | <0.01015   | 0.00011 (J) | <0.01015    |
| 10/31/2022 | 0.00132      |              |              |              | 0.000107 (J) |            | <0.01015   | 0.000344    | <0.01015    |
| 11/1/2022  |              | <0.01015     | 0.000634     |              |              | <0.01015   |            |             |             |
| 11/2/2022  |              |              |              | 0.00104      |              |            |            |             |             |
| 4/3/2023   |              |              |              | <0.01015     | <0.01015     |            |            |             |             |
| 4/4/2023   |              | <0.01015     | <0.01015     |              |              | <0.01015   | <0.01015   | <0.01015    | <0.01015    |
| 4/24/2023  | <0.01015     |              |              |              |              |            |            |             |             |

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-6   | BY-AP-MW-7  |
|------------|--------------|-------------|
| 3/1/2016   | <0.01015     | <0.01015    |
| 3/2/2016   |              |             |
| 4/19/2016  | <0.01015     |             |
| 4/20/2016  |              | <0.01015    |
| 6/7/2016   | <0.01015     | <0.01015    |
| 8/30/2016  | <0.01015     |             |
| 8/31/2016  |              | <0.01015    |
| 10/18/2016 |              |             |
| 10/19/2016 | <0.01015     | <0.01015    |
| 1/31/2017  | <0.01015     | <0.01015    |
| 5/2/2017   |              |             |
| 5/3/2017   | <0.01015     | <0.01015    |
| 6/6/2017   |              |             |
| 6/7/2017   | <0.01015     | <0.01015    |
| 1/24/2018  | <0.01015     | <0.01015    |
| 5/1/2018   |              |             |
| 5/2/2018   | <0.01015     | <0.01015    |
| 11/27/2018 |              |             |
| 11/28/2018 | <0.01015     | <0.01015    |
| 1/8/2019   |              |             |
| 5/29/2019  | <0.01015     | <0.01015    |
| 7/31/2019  |              |             |
| 9/30/2019  |              | <0.01015    |
| 10/1/2019  | <0.01015     |             |
| 10/2/2019  |              |             |
| 3/30/2020  |              | <0.01015    |
| 3/31/2020  | <0.01015     |             |
| 4/1/2020   |              |             |
| 9/1/2020   |              |             |
| 9/2/2020   | <0.01015     | <0.01015    |
| 5/17/2021  | 0.000117 (J) |             |
| 5/18/2021  |              | 0.000214    |
| 5/24/2021  |              |             |
| 5/25/2021  |              |             |
| 10/26/2021 |              |             |
| 10/27/2021 |              | 0.00018 (J) |
| 11/1/2021  |              |             |
| 11/2/2021  | 0.00011 (J)  |             |
| 5/24/2022  |              | 0.00018 (J) |
| 5/25/2022  | 0.00033      |             |
| 10/31/2022 | 0.000122 (J) | 0.00289     |
| 11/1/2022  |              |             |
| 11/2/2022  |              |             |
| 4/3/2023   |              | <0.01015    |
| 4/4/2023   | <0.01015     |             |
| 4/24/2023  |              |             |



# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-7V | BY-AP-MW-8  | BY-AP-MW-8V | BY-AP-MW-9   | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|------------|-------------|-------------|-------------|--------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 2/23/2016  |             |             |             |              | <0.01015        | <0.01015        | <0.01015        | <0.01015        |              |
| 3/1/2016   |             | <0.01015    |             | <0.01015     |                 |                 |                 |                 |              |
| 4/19/2016  |             |             |             |              | <0.01015        | <0.01015        | <0.01015        | <0.01015        |              |
| 4/20/2016  |             | <0.01015    |             | <0.01015     |                 |                 |                 |                 |              |
| 6/6/2016   |             |             |             |              | <0.01015        |                 |                 |                 | <0.01015     |
| 6/7/2016   |             | <0.01015    |             |              |                 | <0.01015        | <0.01015        |                 |              |
| 6/8/2016   |             |             |             | <0.01015     |                 |                 |                 |                 |              |
| 8/30/2016  |             | <0.01015    |             |              | <0.01015        | <0.01015        | <0.01015        | <0.01015        |              |
| 8/31/2016  |             |             |             | <0.01015     |                 |                 |                 |                 |              |
| 10/18/2016 |             | <0.01015    |             |              | <0.01015        | <0.01015        | <0.01015        | <0.01015        |              |
| 10/19/2016 |             |             |             | <0.01015     |                 |                 |                 |                 |              |
| 1/31/2017  |             | <0.01015    |             |              | <0.01015        | <0.01015        | <0.01015        | <0.01015        |              |
| 2/1/2017   |             |             |             | <0.01015     |                 |                 |                 |                 |              |
| 5/2/2017   |             |             |             |              | <0.01015        | <0.01015        | <0.01015        | <0.01015        |              |
| 5/3/2017   |             | <0.01015    |             | <0.01015     |                 |                 |                 |                 |              |
| 6/6/2017   |             |             |             |              | <0.01015        | <0.01015        | <0.01015        | <0.01015        |              |
| 6/7/2017   |             | <0.01015    |             | <0.01015     |                 |                 |                 |                 |              |
| 1/23/2018  |             |             |             | <0.01015     | <0.01015        | <0.01015        | <0.01015        | <0.01015        |              |
| 1/24/2018  |             | <0.01015    |             |              |                 |                 |                 |                 |              |
| 5/1/2018   |             |             |             |              |                 | <0.01015        | <0.01015        | <0.01015        |              |
| 5/2/2018   |             | <0.01015    |             | <0.01015     | <0.01015        |                 |                 |                 |              |
| 11/26/2018 |             |             |             |              |                 |                 |                 |                 | <0.01015     |
| 11/27/2018 |             | <0.01015    |             |              | <0.01015        | <0.01015        | <0.01015        |                 |              |
| 11/28/2018 |             |             |             | <0.01015     |                 |                 |                 |                 |              |
| 1/9/2019   | 0.00511 (J) |             | 0.00243 (J) |              |                 |                 |                 |                 |              |
| 5/28/2019  |             |             |             |              |                 |                 |                 | <0.01015        |              |
| 5/29/2019  |             | <0.01015    |             |              | <0.01015        | <0.01015        | <0.01015        |                 |              |
| 5/30/2019  |             |             |             | <0.01015     |                 |                 |                 |                 |              |
| 9/30/2019  |             | <0.01015    |             | <0.01015     |                 |                 |                 |                 |              |
| 10/1/2019  | <0.01015    |             | <0.01015    |              |                 |                 |                 |                 |              |
| 10/2/2019  |             |             |             |              | <0.01015        | <0.01015        | <0.01015        | <0.01015        |              |
| 3/30/2020  | <0.01015    | <0.01015    | <0.01015    |              |                 |                 |                 |                 |              |
| 3/31/2020  |             |             |             | <0.01015     | <0.01015        | <0.01015        | <0.01015        | <0.01015        |              |
| 9/2/2020   | <0.01015    | <0.01015    | <0.01015    | <0.01015     |                 |                 |                 |                 | <0.01015     |
| 9/8/2020   |             |             |             |              |                 |                 |                 | <0.01015        |              |
| 9/9/2020   |             |             |             |              | <0.01015        | <0.01015        | <0.01015        | <0.01015        |              |
| 5/11/2021  |             | 0.000321    |             |              |                 | <0.01015        | <0.01015        | <0.01015        |              |
| 5/12/2021  |             |             |             |              | <0.01015        |                 |                 |                 |              |
| 5/18/2021  | 0.00021     |             | 0.000363    | 0.00022      |                 |                 |                 |                 |              |
| 5/24/2021  |             |             |             |              |                 |                 |                 |                 | 9.23E-05 (J) |
| 10/18/2021 |             |             |             |              |                 |                 | <0.01015        | <0.01015        |              |
| 10/19/2021 |             |             |             |              | <0.01015        | <0.01015        |                 |                 |              |
| 10/26/2021 |             | 0.00019 (J) | 0.00028     |              |                 |                 |                 |                 |              |
| 10/27/2021 | 0.00046     |             |             | 0.00021      |                 |                 |                 |                 |              |
| 11/2/2021  |             |             |             |              |                 |                 |                 |                 | <0.01015     |
| 5/23/2022  |             |             | 0.00029     |              |                 |                 |                 |                 |              |
| 5/24/2022  | 0.00074     | 0.00023     |             | 0.00024      |                 |                 |                 |                 |              |
| 5/25/2022  |             |             |             |              |                 |                 |                 |                 | <0.01015     |
| 5/31/2022  |             |             |             |              | <0.01015        | <0.01015        | <0.01015        | <0.01015        |              |
| 10/31/2022 | 0.00124     |             | 0.000222    | 0.000157 (J) |                 |                 |                 |                 |              |
| 11/1/2022  |             |             |             |              | <0.01015        | <0.01015        | <0.01015        | <0.01015        | <0.01015     |
| 11/2/2022  |             | 0.000232    |             |              |                 |                 |                 |                 |              |

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

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|           | BY-AP-MW-7V | BY-AP-MW-8 | BY-AP-MW-8V | BY-AP-MW-9 | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|-----------|-------------|------------|-------------|------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 4/3/2023  | <0.01015    | <0.01015   | <0.01015    |            |                 |                 |                 |                 | <0.01015     |
| 4/4/2023  |             |            |             | <0.01015   |                 |                 |                 |                 |              |
| 4/12/2023 |             |            |             |            | <0.01015        | <0.01015        | <0.01015        | <0.01015        |              |

# Time Series

Constituent: pH, field (SU) Analysis Run 6/23/2023 11:16 AM View: Descriptive

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-13V | BY-AP-MW-14 |
|------------|------------|-------------|--------------|-------------|-------------|--------------|-------------|--------------|-------------|
| 3/1/2016   |            | 6.33        |              | 6.34        |             |              |             |              |             |
| 3/2/2016   | 5.78       |             |              |             | 6.16        |              | 6.1         |              | 6.08        |
| 4/19/2016  | 5.8        |             |              |             |             |              |             |              |             |
| 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        |
| 8/30/2016  |            |             |              |             |             |              |             |              | 6.08        |
| 8/31/2016  | 5.85       | 6.35        |              | 6.29        | 6.23        |              | 6.1         |              |             |
| 10/18/2016 |            |             |              |             |             |              |             |              | 6.13        |
| 10/19/2016 | 5.87       | 6.35        |              | 6.26        | 6.2         |              | 6.1         |              |             |
| 1/31/2017  | 5.83       |             |              |             |             |              | 6.07        |              | 6.06        |
| 2/1/2017   |            | 6.27        |              | 6.22        | 6.08        |              |             |              |             |
| 3/21/2017  | 5.83       |             |              |             |             |              |             |              |             |
| 3/22/2017  |            | 6.29        |              | 6.22        | 6.12        |              | 6.07        |              | 6.09        |
| 5/2/2017   | 5.73       |             |              |             |             |              |             |              | 5.94        |
| 5/3/2017   |            | 6.23        |              | 6.15        | 6.12        |              | 6.1         |              |             |
| 6/6/2017   | 5.83       |             |              |             |             |              |             |              | 6.1         |
| 6/7/2017   |            | 6.27        |              | 6.21        | 6.13        |              | 6.07        |              |             |
| 9/13/2017  | 5.91       |             |              | 6.26        | 6.19        |              | 6.12        |              | 6.11        |
| 9/14/2017  |            | 6.27        |              |             |             |              |             |              |             |
| 1/22/2018  |            |             |              |             |             |              | 6.12        |              |             |
| 1/23/2018  |            | 6.32        |              | 6.28        | 6.17        |              |             |              | 6.12        |
| 1/24/2018  | 5.9        |             |              |             |             |              |             |              |             |
| 5/1/2018   | 5.83       |             |              |             |             |              |             |              |             |
| 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        |
| 11/27/2018 |            |             |              |             |             |              |             |              | 6.07        |
| 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        |
| 5/30/2019  |            | 6.23        |              |             |             |              |             |              |             |
| 9/30/2019  |            | 6.11        |              | 5.85        |             |              |             |              |             |
| 10/1/2019  | 5.47       |             | 6.05         |             | 6           |              | 6.02        |              | 6.01        |
| 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   |            |             |              |             |             |              |             |              |             |
| 9/1/2020   | 5.89       | 6.33        | 6.34         | 5.87        | 6.19        | 6.2          | 5.82        |              |             |
| 9/2/2020   |            |             |              |             |             |              |             | 6.23         | 5.8         |
| 5/11/2021  |            | 6.4         |              |             |             |              |             |              |             |
| 5/18/2021  | 5.86       |             | 6.34         |             | 5.58        | 5.92         |             |              |             |
| 5/19/2021  |            |             |              | 6.33        |             |              | 5.79        | 6.2          |             |
| 5/25/2021  |            |             |              |             |             |              |             |              | 5.82        |
| 10/26/2021 |            |             |              |             |             |              | 5.69        | 6.81         |             |
| 10/27/2021 |            | 5.91        | 6.1          |             |             |              |             |              | 6.41        |
| 11/1/2021  | 6.01       |             |              |             | 5.75        | 6.09         |             |              |             |
| 11/2/2021  |            |             |              | 5.84        |             |              |             |              |             |
| 5/23/2022  |            |             |              | 6.32        | 6.12        | 6.22         |             |              |             |
| 5/24/2022  | 5.44       | 5.81        | 5.77         |             |             |              | 5.5         |              |             |
| 5/25/2022  |            |             |              |             |             |              |             | 6.3          | 6.14        |
| 11/1/2022  |            |             | 6.41         | 6.28        | 6.21        | 6.32         | 6.09        | 6.29         | 5.93        |
| 11/2/2022  | 5.56       | 6.39        |              |             |             |              |             |              |             |



# Time Series

Constituent: pH, field (SU) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-14V | BY-AP-MW-15 |
|------------|--------------|-------------|
| 3/1/2016   |              |             |
| 3/2/2016   |              | 6.61        |
| 4/19/2016  |              | 6.75        |
| 4/20/2016  |              |             |
| 6/8/2016   |              | 6.63        |
| 8/30/2016  |              |             |
| 8/31/2016  |              | 6.71        |
| 10/18/2016 |              |             |
| 10/19/2016 |              | 6.66        |
| 1/31/2017  |              | 6.73        |
| 2/1/2017   |              |             |
| 3/21/2017  |              | 6.62        |
| 3/22/2017  |              |             |
| 5/2/2017   |              | 6.49        |
| 5/3/2017   |              |             |
| 6/6/2017   |              | 6.7         |
| 6/7/2017   |              |             |
| 9/13/2017  |              | 6.66        |
| 9/14/2017  |              |             |
| 1/22/2018  |              | 6.73        |
| 1/23/2018  |              |             |
| 1/24/2018  |              |             |
| 5/1/2018   |              | 6.62        |
| 5/2/2018   |              |             |
| 8/28/2018  |              |             |
| 8/29/2018  |              | 6.68        |
| 11/27/2018 |              | 6.58        |
| 11/28/2018 |              |             |
| 1/8/2019   |              |             |
| 5/29/2019  |              | 6.63        |
| 5/30/2019  |              |             |
| 9/30/2019  |              |             |
| 10/1/2019  |              | 6.2         |
| 10/2/2019  |              |             |
| 3/30/2020  |              |             |
| 3/31/2020  |              |             |
| 4/1/2020   |              | 6.72        |
| 9/1/2020   |              |             |
| 9/2/2020   | 7.02         | 6.57        |
| 5/11/2021  |              | 6.76        |
| 5/18/2021  |              |             |
| 5/19/2021  |              |             |
| 5/25/2021  | 7.2          |             |
| 10/26/2021 | 6.91         | 6.7         |
| 10/27/2021 |              |             |
| 11/1/2021  |              |             |
| 11/2/2021  |              |             |
| 5/23/2022  |              |             |
| 5/24/2022  | 6.71         |             |
| 5/25/2022  |              | 6.68        |
| 11/1/2022  | 6.9          | 6.64        |
| 11/2/2022  |              |             |

# Time Series

Constituent: pH, field (SU) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

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|          | BY-AP-MW-14V | BY-AP-MW-15 |
|----------|--------------|-------------|
| 4/3/2023 |              | 6.63        |
| 4/4/2023 | 6.8          |             |
| 4/5/2023 |              |             |

# Time Series

Constituent: pH, field (SU) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-15V | BY-AP-MW-16 | BY-AP-MW-16V | BY-AP-MW-17H | BY-AP-MW-17V | BY-AP-MW-18H | BY-AP-MW-19H | BY-AP-MW-1V | BY-AP-MW-2 |
|------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|-------------|------------|
| 3/2/2016   |              | 5.79        |              |              |              |              |              |             | 6.08       |
| 4/19/2016  |              | 5.78        |              |              |              |              |              |             | 5.92       |
| 6/8/2016   |              | 5.8         |              |              |              |              |              |             | 5.9        |
| 8/31/2016  |              | 5.83        |              |              |              |              |              |             | 5.87       |
| 10/19/2016 |              | 5.81        |              |              |              |              |              |             | 5.82       |
| 1/31/2017  |              | 5.84        |              |              |              |              |              |             | 5.87       |
| 3/21/2017  |              | 5.79        |              |              |              |              |              |             | 5.85       |
| 5/2/2017   |              | 5.68        |              |              |              |              |              |             | 5.61       |
| 6/6/2017   |              | 5.8         |              |              |              |              |              |             | 5.82       |
| 9/12/2017  |              |             |              |              |              |              |              |             | 5.61       |
| 9/13/2017  |              | 5.86        |              |              |              |              |              |             |            |
| 1/23/2018  |              | 5.86        |              |              |              |              |              |             |            |
| 1/24/2018  |              |             |              |              |              |              |              |             | 5.83       |
| 5/1/2018   |              | 5.85        |              |              |              |              |              |             | 5.8        |
| 8/28/2018  |              |             |              |              |              |              |              |             | 5.56       |
| 8/29/2018  |              | 5.87        |              |              |              |              |              |             |            |
| 11/27/2018 |              | 5.76        |              |              |              |              |              |             | 5.71       |
| 1/8/2019   |              |             |              |              |              |              |              | 6.38        |            |
| 3/20/2019  |              |             |              |              |              | 6.19         |              |             |            |
| 5/29/2019  |              | 5.76        |              |              |              |              |              |             | 5.7        |
| 7/31/2019  | 5.37         |             |              | 6.64         |              |              | 6.21         |             |            |
| 10/1/2019  | 5.68         | 5.23        |              |              |              | 6.26         | 6.33         |             | 4.97       |
| 10/2/2019  |              |             |              | 6.58         |              |              |              | 5.27        |            |
| 3/30/2020  |              |             |              |              |              |              |              | 5.65        |            |
| 3/31/2020  |              | 5.75        |              |              |              |              |              |             | 5.71       |
| 4/1/2020   |              |             |              | 6.52         |              | 6.48         |              |             |            |
| 8/31/2020  |              |             |              |              |              |              |              |             | 5.57       |
| 9/1/2020   | 5.91         |             |              | 6.56         | 6.49         | 6.15         | 6.31         | 5.62        |            |
| 9/2/2020   |              | 5.47        | 5.23         |              |              |              |              |             |            |
| 5/17/2021  |              |             |              | 6.35         |              |              |              |             |            |
| 5/18/2021  |              |             |              |              | 6.55         |              |              | 5.55        | 5.83       |
| 5/19/2021  |              | 5.8         | 5.24         |              |              | 6.23         |              |             |            |
| 5/25/2021  | 5.6          |             |              |              |              |              | 6.1          |             |            |
| 10/25/2021 |              |             |              | 6.48         | 6.53         | 6.76         | 6.13         |             |            |
| 10/26/2021 | 5.93         |             | 5.26         |              |              |              |              |             |            |
| 11/1/2021  |              | 5.36        |              |              |              |              |              | 5.76        | 5.2        |
| 5/23/2022  |              |             |              |              |              | 6.24         |              |             |            |
| 5/24/2022  | 5.7          |             |              |              |              |              | 5.8          | 4.9         | 4.78       |
| 5/25/2022  |              | 5.74        | 5.26         | 6.21         | 6.34         |              |              |             |            |
| 10/31/2022 |              |             |              | 6.34         | 6.4          | 6.23         | 6.1          |             |            |
| 11/1/2022  |              | 5.78        | 5.13         |              |              |              |              | 5.21        |            |
| 11/2/2022  | 5.38         |             |              |              |              |              |              |             | 5.68       |
| 4/3/2023   |              |             |              |              |              |              |              |             | 4.88       |
| 4/4/2023   |              |             | 4.97         | 6.25         | 6.48         |              |              | 5.69        |            |
| 4/5/2023   |              | 5.83        |              |              |              | 6.15         |              |             |            |
| 4/24/2023  | 5.61         |             |              |              |              |              | 6.35         |             |            |

# Time Series

Constituent: pH, field (SU) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-20H | BY-AP-MW-20V |
|------------|--------------|--------------|
| 3/2/2016   |              |              |
| 4/19/2016  |              |              |
| 6/8/2016   |              |              |
| 8/31/2016  |              |              |
| 10/19/2016 |              |              |
| 1/31/2017  |              |              |
| 3/21/2017  |              |              |
| 5/2/2017   |              |              |
| 6/6/2017   |              |              |
| 9/12/2017  |              |              |
| 9/13/2017  |              |              |
| 1/23/2018  |              |              |
| 1/24/2018  |              |              |
| 5/1/2018   |              |              |
| 8/28/2018  |              |              |
| 8/29/2018  |              |              |
| 11/27/2018 |              |              |
| 1/8/2019   |              |              |
| 3/20/2019  |              |              |
| 5/29/2019  |              |              |
| 7/31/2019  | 6.22         |              |
| 10/1/2019  | 6.24         |              |
| 10/2/2019  |              |              |
| 3/30/2020  |              |              |
| 3/31/2020  |              |              |
| 4/1/2020   | 6.45         |              |
| 8/31/2020  |              |              |
| 9/1/2020   | 6.15         | 6.03         |
| 9/2/2020   |              |              |
| 5/17/2021  |              |              |
| 5/18/2021  |              |              |
| 5/19/2021  | 6.17         | 6.44         |
| 5/25/2021  |              |              |
| 10/25/2021 |              |              |
| 10/26/2021 | 6.49         |              |
| 11/1/2021  |              | 6            |
| 5/23/2022  | 6.15         |              |
| 5/24/2022  |              | 6.28         |
| 5/25/2022  |              |              |
| 10/31/2022 | 6.12         |              |
| 11/1/2022  |              | 6.3          |
| 11/2/2022  |              |              |
| 4/3/2023   |              |              |
| 4/4/2023   |              |              |
| 4/5/2023   |              |              |
| 4/24/2023  | 6.16         | 6.35         |





# Time Series

Constituent: pH, field (SU) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-6 | BY-AP-MW-7 |
|------------|------------|------------|
| 3/1/2016   | 5.59       | 6.36       |
| 3/2/2016   |            |            |
| 4/19/2016  | 5.55       |            |
| 4/20/2016  |            | 6.31       |
| 6/7/2016   | 5.43       | 6.3        |
| 8/30/2016  | 5.39       |            |
| 8/31/2016  |            | 6.31       |
| 10/18/2016 |            |            |
| 10/19/2016 | 5.31       | 6.23       |
| 1/31/2017  | 5.26       | 6.26       |
| 3/21/2017  |            |            |
| 3/22/2017  | 5.32       | 6.32       |
| 5/2/2017   |            |            |
| 5/3/2017   | 5.35       | 6.29       |
| 6/6/2017   |            |            |
| 6/7/2017   | 5.32       | 6.27       |
| 9/12/2017  |            |            |
| 9/14/2017  | 5.29       | 6.25       |
| 1/24/2018  | 5.32       | 6.35       |
| 5/1/2018   |            |            |
| 5/2/2018   | 5.33       | 6.29       |
| 8/28/2018  |            |            |
| 8/29/2018  | 5.41       |            |
| 11/27/2018 |            |            |
| 11/28/2018 | 5.46       | 6.33       |
| 1/8/2019   |            |            |
| 5/29/2019  | 5.31       | 6.18       |
| 7/31/2019  |            |            |
| 9/30/2019  |            | 6.36       |
| 10/1/2019  | 4.7        |            |
| 10/2/2019  |            |            |
| 3/30/2020  |            | 6.32       |
| 3/31/2020  | 5.22       |            |
| 4/1/2020   |            |            |
| 9/1/2020   |            |            |
| 9/2/2020   | 5.16       | 6.25       |
| 5/17/2021  | 5.21       |            |
| 5/18/2021  |            | 6.4        |
| 5/24/2021  |            |            |
| 5/25/2021  |            |            |
| 10/26/2021 |            |            |
| 10/27/2021 |            | 6.35       |
| 11/1/2021  |            |            |
| 11/2/2021  | 5.59       |            |
| 5/24/2022  |            | 6.32       |
| 5/25/2022  | 4.57       |            |
| 10/31/2022 | 4.9        | 7.07       |
| 11/1/2022  |            |            |
| 11/2/2022  |            |            |
| 4/3/2023   |            | 6.53       |
| 4/4/2023   | 5.33       |            |
| 4/24/2023  |            |            |



# Time Series

Constituent: pH, field (SU) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-7V | BY-AP-MW-8 | BY-AP-MW-8V | BY-AP-MW-9 | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|------------|-------------|------------|-------------|------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 5/23/2022  |             |            | 6.08        |            |                 |                 |                 |                 |              |
| 5/24/2022  | 6.92        | 5.6        |             | 6.03       |                 |                 |                 |                 |              |
| 5/25/2022  |             |            |             |            |                 |                 |                 |                 | 5.45         |
| 5/31/2022  |             |            |             |            | 3.89            | 3.31            | 3.54            | 3.97            |              |
| 10/31/2022 | 7.9         |            | 6.23        | 6.26       |                 |                 |                 |                 |              |
| 11/1/2022  |             |            |             |            | 4.6             | 4.42            | 4.12            | 4.74            | 4.22         |
| 11/2/2022  |             | 6.28       |             |            |                 |                 |                 |                 |              |
| 4/3/2023   | 7.67        | 6.34       | 6.5         |            |                 |                 |                 |                 | 4.8          |
| 4/4/2023   |             |            |             | 6.15       |                 |                 |                 |                 |              |
| 4/12/2023  |             |            |             |            | 4.77            | 4.67            | 4.83            | 4.73            |              |

# Time Series

Constituent: Selenium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

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-13V | BY-AP-MW-14 |
|------------|------------|-------------|--------------|-------------|-------------|--------------|--------------|--------------|-------------|
| 3/1/2016   |            | <0.001015   |              | <0.001015   |             |              |              |              |             |
| 3/2/2016   | <0.001015  |             |              |             | <0.001015   |              | <0.00102     |              | <0.001015   |
| 4/19/2016  | <0.001015  |             |              |             |             |              |              |              |             |
| 4/20/2016  |            | <0.001015   |              | <0.001015   | <0.001015   |              | <0.00102     |              | <0.001015   |
| 6/8/2016   | <0.001015  | <0.001015   |              | <0.001015   | <0.001015   |              | <0.00102     |              | <0.001015   |
| 8/30/2016  |            |             |              |             |             |              |              |              | <0.001015   |
| 8/31/2016  | <0.001015  | <0.001015   |              | <0.001015   | <0.001015   |              | <0.00102     |              |             |
| 10/18/2016 |            |             |              |             |             |              |              |              | <0.001015   |
| 10/19/2016 | <0.001015  | <0.001015   |              | <0.001015   | <0.001015   |              | <0.00102     |              |             |
| 1/31/2017  | <0.001015  |             |              |             |             |              | <0.00102     |              | <0.001015   |
| 2/1/2017   |            | <0.001015   |              | <0.001015   | <0.001015   |              |              |              |             |
| 5/2/2017   | <0.001015  |             |              |             |             |              |              |              | <0.001015   |
| 5/3/2017   |            | <0.001015   |              | <0.001015   | <0.001015   |              | <0.00102     |              |             |
| 6/6/2017   | <0.001015  |             |              |             |             |              |              |              | <0.001015   |
| 6/7/2017   |            | <0.001015   |              | <0.001015   | <0.001015   |              | <0.00102     |              |             |
| 1/22/2018  |            |             |              |             |             |              | <0.00102     |              |             |
| 1/23/2018  |            | <0.001015   |              | <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   |              | <0.00102     |              | <0.001015   |
| 11/27/2018 |            |             |              |             |             |              |              |              | <0.001015   |
| 11/28/2018 | <0.001015  | <0.001015   |              | <0.001015   | <0.001015   |              | <0.00102     |              |             |
| 1/8/2019   |            |             | <0.001015    |             |             | <0.001015    |              |              |             |
| 5/29/2019  | <0.001015  |             |              | <0.001015   | <0.001015   |              | <0.00102     |              | <0.001015   |
| 5/30/2019  |            | <0.001015   |              |             |             |              |              |              |             |
| 9/30/2019  |            | <0.001015   |              | <0.001015   |             |              |              |              |             |
| 10/1/2019  | <0.001015  |             | <0.001015    |             | <0.001015   |              | <0.00102     |              | <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    | <0.00102     |              | <0.001015   |
| 4/1/2020   |            |             |              |             |             |              |              |              |             |
| 9/1/2020   | <0.001015  | <0.001015   | <0.001015    | <0.001015   | <0.001015   | <0.001015    | <0.00102     |              |             |
| 9/2/2020   |            |             |              |             |             |              |              | <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   |             |              | <0.00102     | <0.001015    |             |
| 5/25/2021  |            |             |              |             |             |              |              |              | <0.001015   |
| 10/26/2021 |            |             |              |             |             |              | <0.00102     | <0.001015    |             |
| 10/27/2021 |            | <0.001015   | <0.001015    |             |             |              |              |              | <0.001015   |
| 11/1/2021  | <0.001015  |             |              |             | <0.001015   | <0.001015    |              |              |             |
| 11/2/2021  |            |             |              | <0.001015   |             |              |              |              |             |
| 5/23/2022  |            |             |              | <0.001015   | <0.001015   | <0.001015    |              |              |             |
| 5/24/2022  | <0.001015  | <0.001015   | <0.001015    |             |             |              | 0.00056 (J)  |              |             |
| 5/25/2022  |            |             |              |             |             |              |              | <0.001015    | <0.001015   |
| 11/1/2022  |            |             | <0.001015    | <0.001015   | <0.001015   | <0.001015    | 0.000611 (J) | <0.001015    | <0.001015   |
| 11/2/2022  | <0.001015  | <0.001015   |              |             |             |              |              |              |             |
| 4/3/2023   | <0.001015  | <0.001015   | <0.001015    |             |             |              |              |              |             |
| 4/4/2023   |            |             |              | <0.001015   | <0.001015   | <0.001015    | 0.000664 (J) | <0.001015    |             |
| 4/5/2023   |            |             |              |             |             |              |              |              | <0.001015   |

# Time Series

Constituent: Selenium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-14V | BY-AP-MW-15 |
|------------|--------------|-------------|
| 3/1/2016   |              |             |
| 3/2/2016   |              | <0.001015   |
| 4/19/2016  |              | <0.001015   |
| 4/20/2016  |              |             |
| 6/8/2016   |              | <0.001015   |
| 8/30/2016  |              |             |
| 8/31/2016  |              | <0.001015   |
| 10/18/2016 |              |             |
| 10/19/2016 |              | <0.001015   |
| 1/31/2017  |              | <0.001015   |
| 2/1/2017   |              |             |
| 5/2/2017   |              | <0.001015   |
| 5/3/2017   |              |             |
| 6/6/2017   |              | <0.001015   |
| 6/7/2017   |              |             |
| 1/22/2018  |              | <0.001015   |
| 1/23/2018  |              |             |
| 1/24/2018  |              |             |
| 5/1/2018   |              | <0.001015   |
| 5/2/2018   |              |             |
| 11/27/2018 |              | <0.001015   |
| 11/28/2018 |              |             |
| 1/8/2019   |              |             |
| 5/29/2019  |              | <0.001015   |
| 5/30/2019  |              |             |
| 9/30/2019  |              |             |
| 10/1/2019  |              | <0.001015   |
| 10/2/2019  |              |             |
| 3/30/2020  |              |             |
| 3/31/2020  |              |             |
| 4/1/2020   |              | <0.001015   |
| 9/1/2020   |              |             |
| 9/2/2020   | <0.001015    | <0.001015   |
| 5/11/2021  |              | <0.001015   |
| 5/18/2021  |              |             |
| 5/19/2021  |              |             |
| 5/25/2021  | <0.001015    |             |
| 10/26/2021 | <0.001015    | <0.001015   |
| 10/27/2021 |              |             |
| 11/1/2021  |              |             |
| 11/2/2021  |              |             |
| 5/23/2022  |              |             |
| 5/24/2022  | <0.001015    |             |
| 5/25/2022  |              | <0.001015   |
| 11/1/2022  | <0.001015    | <0.001015   |
| 11/2/2022  |              |             |
| 4/3/2023   |              | <0.001015   |
| 4/4/2023   | <0.001015    |             |
| 4/5/2023   |              |             |

# Time Series

Constituent: Selenium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-15V | BY-AP-MW-16 | BY-AP-MW-16V | BY-AP-MW-17H | BY-AP-MW-17V | BY-AP-MW-18H | BY-AP-MW-19H | BY-AP-MW-1V | BY-AP-MW-2 |
|------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|-------------|------------|
| 3/2/2016   |              | <0.001015   |              |              |              |              |              |             | <0.001015  |
| 4/19/2016  |              | <0.001015   |              |              |              |              |              |             | <0.001015  |
| 6/8/2016   |              | <0.001015   |              |              |              |              |              |             | <0.001015  |
| 8/31/2016  |              | <0.001015   |              |              |              |              |              |             | <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  |
| 1/23/2018  |              | <0.001015   |              |              |              |              |              |             | <0.001015  |
| 1/24/2018  |              |             |              |              |              |              |              |             | <0.001015  |
| 5/1/2018   |              | <0.001015   |              |              |              |              |              |             | <0.001015  |
| 11/27/2018 |              | <0.001015   |              |              |              |              |              |             | <0.001015  |
| 1/8/2019   |              |             |              |              |              |              |              | <0.001015   |            |
| 3/20/2019  |              |             |              |              |              | <0.001015    |              |             |            |
| 5/29/2019  |              | <0.001015   |              |              |              |              |              |             | <0.001015  |
| 7/31/2019  | <0.001015    |             |              | <0.001015    |              |              | <0.001015    |             |            |
| 10/1/2019  | <0.001015    | <0.001015   |              |              |              | <0.001015    | <0.001015    |             | <0.001015  |
| 10/2/2019  |              |             |              | <0.001015    |              |              |              | <0.001015   |            |
| 3/30/2020  |              |             |              |              |              |              |              | <0.001015   |            |
| 3/31/2020  |              | <0.001015   |              |              |              |              |              |             | <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    | <0.001015   |            |
| 9/2/2020   |              | <0.001015   | <0.001015    |              |              |              |              |             |            |
| 5/17/2021  |              |             |              | <0.001015    |              |              |              |             |            |
| 5/18/2021  |              |             |              |              | <0.001015    |              |              | <0.001015   | <0.001015  |
| 5/19/2021  |              | <0.001015   | <0.001015    |              |              | <0.001015    |              |             |            |
| 5/25/2021  | <0.001015    |             |              |              |              |              | <0.001015    |             |            |
| 10/25/2021 |              |             |              | <0.001015    | <0.001015    | <0.001015    | <0.001015    |             |            |
| 10/26/2021 | <0.001015    |             | <0.001015    |              |              |              |              |             |            |
| 11/1/2021  |              | <0.001015   |              |              |              |              |              | <0.001015   | <0.001015  |
| 5/23/2022  |              |             |              |              |              | <0.001015    |              |             |            |
| 5/24/2022  | <0.001015    |             |              |              |              |              | <0.001015    | <0.001015   | <0.001015  |
| 5/25/2022  |              | <0.001015   | <0.001015    | <0.001015    | <0.001015    |              |              |             |            |
| 10/31/2022 |              |             |              | <0.001015    | <0.001015    | <0.001015    | <0.001015    |             |            |
| 11/1/2022  |              | <0.001015   | <0.001015    |              |              |              |              | <0.001015   |            |
| 11/2/2022  | <0.001015    |             |              |              |              |              |              |             | <0.001015  |
| 4/3/2023   |              |             |              |              |              |              |              |             | <0.001015  |
| 4/4/2023   |              |             | <0.001015    | <0.001015    | <0.001015    |              |              | <0.001015   |            |
| 4/5/2023   |              | <0.001015   |              |              |              | <0.001015    |              |             |            |
| 4/24/2023  | <0.001015    |             |              |              |              |              | <0.001015    |             |            |

# Time Series

Constituent: Selenium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-20H | BY-AP-MW-20V |
|------------|--------------|--------------|
| 3/2/2016   |              |              |
| 4/19/2016  |              |              |
| 6/8/2016   |              |              |
| 8/31/2016  |              |              |
| 10/19/2016 |              |              |
| 1/31/2017  |              |              |
| 5/2/2017   |              |              |
| 6/6/2017   |              |              |
| 1/23/2018  |              |              |
| 1/24/2018  |              |              |
| 5/1/2018   |              |              |
| 11/27/2018 |              |              |
| 1/8/2019   |              |              |
| 3/20/2019  |              |              |
| 5/29/2019  |              |              |
| 7/31/2019  | <0.001015    |              |
| 10/1/2019  | <0.001015    |              |
| 10/2/2019  |              |              |
| 3/30/2020  |              |              |
| 3/31/2020  |              |              |
| 4/1/2020   | <0.001015    |              |
| 8/31/2020  |              |              |
| 9/1/2020   | <0.001015    | <0.001015    |
| 9/2/2020   |              |              |
| 5/17/2021  |              |              |
| 5/18/2021  |              |              |
| 5/19/2021  | <0.001015    | <0.001015    |
| 5/25/2021  |              |              |
| 10/25/2021 |              |              |
| 10/26/2021 | <0.001015    |              |
| 11/1/2021  |              | <0.001015    |
| 5/23/2022  | 0.00054 (J)  |              |
| 5/24/2022  |              | <0.001015    |
| 5/25/2022  |              |              |
| 10/31/2022 | <0.001015    |              |
| 11/1/2022  |              | <0.001015    |
| 11/2/2022  |              |              |
| 4/3/2023   |              |              |
| 4/4/2023   |              |              |
| 4/5/2023   |              |              |
| 4/24/2023  | <0.001015    | <0.001015    |



# Time Series

Constituent: Selenium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-22H | BY-AP-MW-23H | BY-AP-MW-23V | BY-AP-MW-24H | BY-AP-MW-25H | BY-AP-MW-3 | BY-AP-MW-4 | BY-AP-MW-5 | BY-AP-MW-5V |
|------------|--------------|--------------|--------------|--------------|--------------|------------|------------|------------|-------------|
| 3/1/2016   |              |              |              |              |              |            | <0.001015  | <0.001015  |             |
| 3/2/2016   |              |              |              |              |              | <0.001015  |            |            |             |
| 4/19/2016  |              |              |              |              |              | <0.001015  | <0.001015  |            |             |
| 4/20/2016  |              |              |              |              |              |            |            | <0.001015  |             |
| 6/7/2016   |              |              |              |              |              | <0.001015  | <0.001015  | <0.001015  |             |
| 8/30/2016  |              |              |              |              |              |            | <0.001015  | <0.001015  |             |
| 8/31/2016  |              |              |              |              |              | <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  |             |
| 1/24/2018  |              |              |              |              |              | <0.001015  | <0.001015  | <0.001015  |             |
| 5/1/2018   |              |              |              |              |              | <0.001015  | <0.001015  |            |             |
| 5/2/2018   |              |              |              |              |              |            |            | <0.001015  |             |
| 11/27/2018 |              |              |              |              |              | <0.001015  | <0.001015  | <0.001015  |             |
| 11/28/2018 |              |              |              |              |              |            |            |            |             |
| 1/8/2019   |              |              |              | <0.001015    |              |            |            |            | <0.001015   |
| 5/29/2019  |              |              |              |              |              | <0.001015  | <0.001015  | <0.001015  |             |
| 7/31/2019  | <0.001015    | <0.001015    |              |              |              |            |            |            |             |
| 9/30/2019  |              |              |              |              |              |            |            |            |             |
| 10/1/2019  | <0.001015    | <0.001015    |              |              |              | <0.001015  | <0.001015  | <0.001015  |             |
| 10/2/2019  |              |              |              | <0.001015    |              |            |            |            | <0.001015   |
| 3/30/2020  |              |              |              |              |              |            |            |            |             |
| 3/31/2020  |              |              |              | <0.001015    |              | <0.001015  | <0.001015  | <0.001015  | <0.001015   |
| 4/1/2020   |              | <0.001015    |              |              |              |            |            |            |             |
| 9/1/2020   | <0.001015    | <0.001015    | <0.001015    |              |              | <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  | <0.001015  |            |             |
| 5/24/2021  |              | <0.001015    |              |              | <0.001015    |            |            |            |             |
| 5/25/2021  | <0.001015    |              |              | <0.001015    |              |            |            |            |             |
| 10/26/2021 | <0.001015    | <0.001015    | <0.001015    | <0.001015    |              |            |            |            |             |
| 10/27/2021 |              |              |              |              |              |            |            |            |             |
| 11/1/2021  |              |              |              |              |              | <0.001015  | <0.001015  |            |             |
| 11/2/2021  |              |              |              |              | <0.001015    |            |            | <0.001015  | <0.001015   |
| 5/24/2022  | <0.001015    |              |              | <0.001015    |              |            |            |            |             |
| 5/25/2022  |              | <0.001015    | <0.001015    |              | <0.001015    | <0.001015  | <0.001015  | <0.001015  | <0.001015   |
| 10/31/2022 | <0.001015    |              |              |              | <0.001015    | <0.001015  | <0.001015  | <0.001015  | <0.001015   |
| 11/1/2022  |              | <0.001015    | <0.001015    |              |              | <0.001015  |            |            |             |
| 11/2/2022  |              |              |              | <0.001015    |              |            |            |            |             |
| 4/3/2023   |              |              |              | <0.001015    | <0.001015    |            |            |            |             |
| 4/4/2023   |              | <0.001015    | <0.001015    |              |              | <0.001015  | <0.001015  | <0.001015  | <0.001015   |
| 4/24/2023  | <0.001015    |              |              |              |              |            |            |            |             |

# Time Series

Constituent: Selenium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-6 | BY-AP-MW-7 |
|------------|------------|------------|
| 3/1/2016   | <0.001015  | <0.001015  |
| 3/2/2016   |            |            |
| 4/19/2016  | <0.001015  |            |
| 4/20/2016  |            | <0.001015  |
| 6/7/2016   | <0.001015  | <0.001015  |
| 8/30/2016  | <0.001015  |            |
| 8/31/2016  |            | <0.001015  |
| 10/18/2016 |            |            |
| 10/19/2016 | <0.001015  | <0.001015  |
| 1/31/2017  | <0.001015  | <0.001015  |
| 5/2/2017   |            |            |
| 5/3/2017   | <0.001015  | <0.001015  |
| 6/6/2017   |            |            |
| 6/7/2017   | <0.001015  | <0.001015  |
| 1/24/2018  | <0.001015  | <0.001015  |
| 5/1/2018   |            |            |
| 5/2/2018   | <0.001015  | <0.001015  |
| 11/27/2018 |            |            |
| 11/28/2018 | <0.001015  | <0.001015  |
| 1/8/2019   |            |            |
| 5/29/2019  | <0.001015  | <0.001015  |
| 7/31/2019  |            |            |
| 9/30/2019  |            | <0.001015  |
| 10/1/2019  | <0.001015  |            |
| 10/2/2019  |            |            |
| 3/30/2020  |            | <0.001015  |
| 3/31/2020  | <0.001015  |            |
| 4/1/2020   |            |            |
| 9/1/2020   |            |            |
| 9/2/2020   | <0.001015  | <0.001015  |
| 5/17/2021  | <0.001015  |            |
| 5/18/2021  |            | <0.001015  |
| 5/24/2021  |            |            |
| 5/25/2021  |            |            |
| 10/26/2021 |            |            |
| 10/27/2021 |            | <0.001015  |
| 11/1/2021  |            |            |
| 11/2/2021  | <0.001015  |            |
| 5/24/2022  |            | <0.001015  |
| 5/25/2022  | <0.001015  |            |
| 10/31/2022 | <0.001015  | <0.001015  |
| 11/1/2022  |            |            |
| 11/2/2022  |            |            |
| 4/3/2023   |            | <0.001015  |
| 4/4/2023   | <0.001015  |            |
| 4/24/2023  |            |            |

# Time Series

Constituent: Selenium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-7V | BY-AP-MW-8 | BY-AP-MW-8V | BY-AP-MW-9 | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|------------|-------------|------------|-------------|------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 2/23/2016  |             |            |             |            | <0.001015       | <0.00102        | <0.001015       | <0.001015       |              |
| 3/1/2016   |             | <0.001015  |             | <0.001015  |                 |                 |                 |                 |              |
| 4/19/2016  |             |            |             |            | <0.001015       | <0.00102        | <0.001015       | <0.001015       |              |
| 4/20/2016  |             | <0.001015  |             | <0.001015  |                 |                 |                 |                 |              |
| 6/6/2016   |             |            |             |            | <0.001015       |                 |                 |                 | <0.001015    |
| 6/7/2016   |             | <0.001015  |             |            |                 | <0.00102        | <0.001015       |                 |              |
| 6/8/2016   |             |            |             | <0.001015  |                 |                 |                 |                 |              |
| 8/30/2016  |             | <0.001015  |             |            | <0.001015       | <0.00102        | <0.001015       | <0.001015       |              |
| 8/31/2016  |             |            |             | <0.001015  |                 |                 |                 |                 |              |
| 10/18/2016 |             | <0.001015  |             |            | <0.001015       | <0.00102        | <0.001015       | <0.001015       |              |
| 10/19/2016 |             |            |             | <0.001015  |                 |                 |                 |                 |              |
| 1/31/2017  |             | <0.001015  |             |            | <0.001015       | <0.00102        | <0.001015       | <0.001015       |              |
| 2/1/2017   |             |            |             | <0.001015  |                 |                 |                 |                 |              |
| 5/2/2017   |             |            |             |            | <0.001015       | <0.00102        | <0.001015       | <0.001015       |              |
| 5/3/2017   |             | <0.001015  |             | <0.001015  |                 |                 |                 |                 |              |
| 6/6/2017   |             |            |             |            | <0.001015       | <0.00102        | <0.001015       | <0.001015       |              |
| 6/7/2017   |             | <0.001015  |             | <0.001015  |                 |                 |                 |                 |              |
| 1/23/2018  |             |            |             | <0.001015  | <0.001015       | <0.00102        | <0.001015       | <0.001015       |              |
| 1/24/2018  |             | <0.001015  |             |            |                 |                 |                 |                 |              |
| 5/1/2018   |             |            |             |            |                 | <0.00102        | <0.001015       | <0.001015       |              |
| 5/2/2018   |             | <0.001015  |             | <0.001015  | <0.001015       |                 |                 |                 |              |
| 11/26/2018 |             |            |             |            |                 |                 |                 |                 | <0.001015    |
| 11/27/2018 |             | <0.001015  |             |            | <0.001015       | <0.00102        | <0.001015       |                 |              |
| 11/28/2018 |             |            |             | <0.001015  |                 |                 |                 |                 |              |
| 1/9/2019   | <0.001015   |            | <0.001015   |            |                 |                 |                 |                 |              |
| 5/28/2019  |             |            |             |            |                 |                 |                 | <0.001015       |              |
| 5/29/2019  |             | <0.001015  |             |            | <0.001015       | <0.00102        | <0.001015       |                 |              |
| 5/30/2019  |             |            |             | <0.001015  |                 |                 |                 |                 |              |
| 9/30/2019  |             | <0.001015  |             | <0.001015  |                 |                 |                 |                 |              |
| 10/1/2019  | <0.001015   |            | <0.001015   |            |                 |                 |                 |                 |              |
| 10/2/2019  |             |            |             |            | <0.001015       | <0.00102        | <0.001015       | <0.001015       |              |
| 3/30/2020  | <0.001015   | <0.001015  | <0.001015   |            |                 |                 |                 |                 |              |
| 3/31/2020  |             |            |             | <0.001015  | <0.001015       | <0.00102        | <0.001015       | <0.001015       |              |
| 9/2/2020   | <0.001015   | <0.001015  | <0.001015   | <0.001015  |                 |                 |                 |                 | <0.001015    |
| 9/8/2020   |             |            |             |            |                 |                 |                 | <0.001015       |              |
| 9/9/2020   |             |            |             |            | <0.001015       | <0.00102        | <0.001015       |                 |              |
| 5/11/2021  |             | <0.001015  |             |            |                 | 0.000602 (J)    | <0.001015       | <0.001015       |              |
| 5/12/2021  |             |            |             |            | <0.001015       |                 |                 |                 |              |
| 5/18/2021  | <0.001015   |            | <0.001015   | <0.001015  |                 |                 |                 |                 |              |
| 5/24/2021  |             |            |             |            |                 |                 |                 |                 | <0.001015    |
| 10/18/2021 |             |            |             |            |                 |                 | <0.001015       | <0.001015       |              |
| 10/19/2021 |             |            |             |            | <0.001015       | <0.00102        |                 |                 |              |
| 10/26/2021 |             | <0.001015  | <0.001015   |            |                 |                 |                 |                 |              |
| 10/27/2021 | <0.001015   |            |             | <0.001015  |                 |                 |                 |                 |              |
| 11/2/2021  |             |            |             |            |                 |                 |                 |                 | <0.001015    |
| 5/23/2022  |             |            | <0.001015   |            |                 |                 |                 |                 |              |
| 5/24/2022  | <0.001015   | <0.001015  |             | <0.001015  |                 |                 |                 |                 |              |
| 5/25/2022  |             |            |             |            |                 |                 |                 |                 | <0.001015    |
| 5/31/2022  |             |            |             |            | <0.001015       | 0.00063 (J)     | <0.001015       | <0.001015       |              |
| 10/31/2022 | <0.001015   |            | <0.001015   | <0.001015  |                 |                 |                 |                 |              |
| 11/1/2022  |             |            |             |            | <0.001015       | 0.000558 (J)    | <0.001015       | <0.001015       | <0.001015    |
| 11/2/2022  |             | <0.001015  |             |            |                 |                 |                 |                 |              |

# Time Series

Constituent: Selenium (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|           | BY-AP-MW-7V | BY-AP-MW-8 | BY-AP-MW-8V | BY-AP-MW-9 | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|-----------|-------------|------------|-------------|------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 4/3/2023  | <0.001015   | <0.001015  | <0.001015   |            |                 |                 |                 |                 | <0.001015    |
| 4/4/2023  |             |            |             | <0.001015  |                 |                 |                 |                 |              |
| 4/12/2023 |             |            |             |            | <0.001015       | 0.000702 (J)    | <0.001015       | <0.001015       |              |

# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/23/2023 11:16 AM View: Descriptive

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-13V | BY-AP-MW-14 |
|------------|------------|-------------|--------------|-------------|-------------|--------------|-------------|--------------|-------------|
| 3/1/2016   |            | 0.34 (J)    |              | 1.02        |             |              |             |              |             |
| 3/2/2016   | 0.31 (J)   |             |              |             | <5          |              | <5          |              | <5          |
| 4/19/2016  | 0.335 (J)  |             |              |             |             |              |             |              |             |
| 4/20/2016  |            | <5          |              | 1.1         | <5          |              | <5          |              | <5          |
| 6/8/2016   | 0.556 (J)  | 0.538 (J)   |              | 0.701 (J)   | 0.511 (J)   |              | 0.496 (J)   |              | 0.514 (J)   |
| 8/30/2016  |            |             |              |             |             |              |             |              | <5          |
| 8/31/2016  | <5         | <5          |              | <5          | <5          |              | <5          |              |             |
| 10/18/2016 |            |             |              |             |             |              |             |              | <5          |
| 10/19/2016 | <5         | <5          |              | <5          | <5          |              | <5          |              |             |
| 3/21/2017  | <5         |             |              |             |             |              |             |              |             |
| 3/22/2017  |            | <5          |              | 2.1 (J)     | <5          |              | 6.9         |              | <5          |
| 5/2/2017   | 6          |             |              |             |             |              |             |              | 1.8 (J)     |
| 5/3/2017   |            | 4.1 (J)     |              | 3.6 (J)     | 2.1 (J)     |              | 6.6         |              |             |
| 6/6/2017   | <5         |             |              |             |             |              |             |              | <5          |
| 6/7/2017   |            | <5          |              | <5          | <5          |              | 6           |              |             |
| 9/13/2017  | 4.7 (J)    |             |              | <5          | <5          |              | 2.2 (J)     |              | <5          |
| 9/14/2017  |            | <5          |              |             |             |              |             |              |             |
| 5/1/2018   | <5         |             |              |             |             |              |             |              |             |
| 5/2/2018   |            | <5          |              | <5          | <5          |              | 4.1 (J)     |              | 1.6 (J)     |
| 8/28/2018  | <5         | <5          |              |             |             |              |             |              |             |
| 8/29/2018  |            |             |              | 2.3 (J)     | <5          |              | <5          |              | <5          |
| 11/27/2018 |            |             |              |             |             |              |             |              | <5          |
| 11/28/2018 | 4.1 (J)    | <5          |              | <5          | <50 (O)     |              | 4.9 (J)     |              |             |
| 1/8/2019   |            |             | 93.7         |             |             | 10.3         |             |              |             |
| 5/29/2019  | 5.75       |             |              | 24.1        | 7.04        |              | 49.5 (o)    |              | 67.6 (o)    |
| 5/30/2019  |            | 3.76        |              |             |             |              |             |              |             |
| 9/30/2019  |            | 2.77        |              | 37.4        |             |              |             |              |             |
| 10/1/2019  | 7.82       |             | 5.19         |             | 35.3        |              | 47.7        |              | 61.6        |
| 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   |            |             |              |             |             |              |             |              |             |
| 9/1/2020   | 23.1       | 15.6        | 30.1         | 42.8        | 32.1        | 47.5         | 14.2        |              |             |
| 9/2/2020   |            |             |              |             |             |              |             | 30.6         | 18.5        |
| 5/11/2021  |            | 13.2        |              |             |             |              |             |              |             |
| 5/18/2021  | 16.5       |             | 24.9         |             | 25.1        | 32.8         |             |              |             |
| 5/19/2021  |            |             |              | 16.5        |             |              | 50.4        | 39.7         |             |
| 5/25/2021  |            |             |              |             |             |              |             |              | 59.2        |
| 10/26/2021 |            |             |              |             |             |              | 21          | 47.3         |             |
| 10/27/2021 |            | 5.72        | 6.04         |             |             |              |             |              | 98.5        |
| 11/1/2021  | 10.9       |             |              |             | 27          | 10.9         |             |              |             |
| 11/2/2021  |            |             |              | 133         |             |              |             |              |             |
| 5/23/2022  |            |             |              | 29.3        | 13          | 6.64         |             |              |             |
| 5/24/2022  | 21         | 14.7        | 5.73         |             |             |              | 38.3        |              |             |
| 5/25/2022  |            |             |              |             |             |              |             | 122          | 105         |
| 11/1/2022  |            |             | 11.4         | 47.700001   | 15.3        | 12.3         | 86.900002   | 136          | 86.099998   |
| 11/2/2022  | 12.1       | 10.2        |              |             |             |              |             |              |             |
| 4/3/2023   | 34.200001  | 15          | 13           |             |             |              |             |              |             |
| 4/4/2023   |            |             |              | 84.300003   | 39.599998   | 85.5         | 24.6        | 29.5         |             |
| 4/5/2023   |            |             |              |             |             |              |             |              | 112         |

# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/23/2023 11:17 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-14V | BY-AP-MW-15 |
|------------|--------------|-------------|
| 3/1/2016   |              |             |
| 3/2/2016   |              | <5          |
| 4/19/2016  |              | <5          |
| 4/20/2016  |              |             |
| 6/8/2016   |              | 0.489 (J)   |
| 8/30/2016  |              |             |
| 8/31/2016  |              | <5          |
| 10/18/2016 |              |             |
| 10/19/2016 |              | <5          |
| 3/21/2017  |              | <5          |
| 3/22/2017  |              |             |
| 5/2/2017   |              | <5          |
| 5/3/2017   |              |             |
| 6/6/2017   |              | <5          |
| 6/7/2017   |              |             |
| 9/13/2017  |              | <5          |
| 9/14/2017  |              |             |
| 5/1/2018   |              | <5          |
| 5/2/2018   |              |             |
| 8/28/2018  |              |             |
| 8/29/2018  |              | 6.2         |
| 11/27/2018 |              | <5          |
| 11/28/2018 |              |             |
| 1/8/2019   |              |             |
| 5/29/2019  |              | 3.27        |
| 5/30/2019  |              |             |
| 9/30/2019  |              |             |
| 10/1/2019  |              | 1.72        |
| 10/2/2019  |              |             |
| 3/30/2020  |              |             |
| 3/31/2020  |              |             |
| 4/1/2020   |              | 7.5         |
| 9/1/2020   |              |             |
| 9/2/2020   | 63.6         | 7.61        |
| 5/11/2021  |              | 7.54        |
| 5/18/2021  |              |             |
| 5/19/2021  |              |             |
| 5/25/2021  | 39.5         |             |
| 10/26/2021 | 75.1         | 26.4        |
| 10/27/2021 |              |             |
| 11/1/2021  |              |             |
| 11/2/2021  |              |             |
| 5/23/2022  |              |             |
| 5/24/2022  | 13.6         |             |
| 5/25/2022  |              | 1.8 (J)     |
| 11/1/2022  | 10.7         | 4.24        |
| 11/2/2022  |              |             |
| 4/3/2023   |              | 8.28        |
| 4/4/2023   | 11.7         |             |
| 4/5/2023   |              |             |

# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/23/2023 11:17 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-15V | BY-AP-MW-16 | BY-AP-MW-16V | BY-AP-MW-17H | BY-AP-MW-17V | BY-AP-MW-18H | BY-AP-MW-19H | BY-AP-MW-1V | BY-AP-MW-2 |
|------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|-------------|------------|
| 3/2/2016   |              | <5          |              |              |              |              |              |             | 3.3        |
| 4/19/2016  |              | <5          |              |              |              |              |              |             | 2.68       |
| 6/8/2016   |              | 0.514 (J)   |              |              |              |              |              |             | 1.1        |
| 8/31/2016  |              | <5          |              |              |              |              |              |             | <1         |
| 10/19/2016 |              | <5          |              |              |              |              |              |             | <1         |
| 3/21/2017  |              | <5          |              |              |              |              |              |             | <1         |
| 5/2/2017   |              | <5          |              |              |              |              |              |             | <1         |
| 6/6/2017   |              | <5          |              |              |              |              |              |             | <1         |
| 9/12/2017  |              |             |              |              |              |              |              |             | <1         |
| 9/13/2017  |              | 2.6 (J)     |              |              |              |              |              |             |            |
| 5/1/2018   |              | <5          |              |              |              |              |              |             | <1         |
| 8/28/2018  |              |             |              |              |              |              |              |             | <1         |
| 8/29/2018  |              | 3.9 (J)     |              |              |              |              |              |             |            |
| 11/27/2018 |              | <5          |              |              |              |              |              |             | <1         |
| 1/8/2019   |              |             |              |              |              |              |              | 20.9        |            |
| 3/20/2019  |              |             |              |              |              | 12.8         |              |             |            |
| 5/29/2019  |              | 6.72        |              |              |              |              |              |             | 0.885 (J)  |
| 7/31/2019  | 2.65         |             |              | 23           |              |              | 11.4         |             |            |
| 10/1/2019  | 0.854 (J)    | 3.4         |              |              |              | 8.49         | 5.9          |             | <1         |
| 10/2/2019  |              |             |              | 10.6         |              |              |              | 10.5        |            |
| 3/30/2020  |              |             |              |              |              |              |              | 11.1        |            |
| 3/31/2020  |              | 17.5 (o)    |              |              |              |              |              |             | 1.69       |
| 4/1/2020   |              |             |              | 19.4         |              | 24.2         |              |             |            |
| 8/31/2020  |              |             |              |              |              |              |              |             | 0.576 (J)  |
| 9/1/2020   | 2.21         |             |              | 7.61         | 26.6         | 30.6         | 16.9         | 13          |            |
| 9/2/2020   |              | 13.3 (o)    | 40           |              |              |              |              |             |            |
| 5/17/2021  |              |             |              | 10.2         |              |              |              |             |            |
| 5/18/2021  |              |             |              |              | 17.4         |              |              | 16          | <1         |
| 5/19/2021  |              | 3.11        | 40.9         |              |              | 7.48         |              |             |            |
| 5/25/2021  | 1.19         |             |              |              |              |              | 26.6         |             |            |
| 10/25/2021 |              |             |              | 24.5         | 11           | 55           | 28.7         |             |            |
| 10/26/2021 | 0.966 (J)    |             | 38.1         |              |              |              |              |             |            |
| 11/1/2021  |              | 11.9        |              |              |              |              |              | 20.2        | 1.56       |
| 5/23/2022  |              |             |              |              |              | 9.46         |              |             |            |
| 5/24/2022  | 2.35         |             |              |              |              |              | 34.7         | 21.1        | 0.615 (J)  |
| 5/25/2022  |              | 6.29        | 35.1         | 3.58         | 49.1         |              |              |             |            |
| 10/31/2022 |              |             |              | 13.2         | 55.799999    | 12.1         | 23           |             |            |
| 11/1/2022  |              | 7.46        | 29.9         |              |              |              |              | 23          |            |
| 11/2/2022  | 6.26         |             |              |              |              |              |              |             | 1.17 (J)   |
| 4/3/2023   |              |             |              |              |              |              |              |             | 1.77 (J)   |
| 4/4/2023   |              |             | 34           | 17.200001    | 59           |              |              | 19          |            |
| 4/5/2023   |              | 9.3         |              |              |              | 67           |              |             |            |
| 4/24/2023  | 1.93 (J)     |             |              |              |              |              | 38.700001    |             |            |

# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/23/2023 11:17 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-20H | BY-AP-MW-20V |
|------------|--------------|--------------|
| 3/2/2016   |              |              |
| 4/19/2016  |              |              |
| 6/8/2016   |              |              |
| 8/31/2016  |              |              |
| 10/19/2016 |              |              |
| 3/21/2017  |              |              |
| 5/2/2017   |              |              |
| 6/6/2017   |              |              |
| 9/12/2017  |              |              |
| 9/13/2017  |              |              |
| 5/1/2018   |              |              |
| 8/28/2018  |              |              |
| 8/29/2018  |              |              |
| 11/27/2018 |              |              |
| 1/8/2019   |              |              |
| 3/20/2019  |              |              |
| 5/29/2019  |              |              |
| 7/31/2019  | 83.2         |              |
| 10/1/2019  | 28.9         |              |
| 10/2/2019  |              |              |
| 3/30/2020  |              |              |
| 3/31/2020  |              |              |
| 4/1/2020   | 18.7         |              |
| 8/31/2020  |              |              |
| 9/1/2020   | 43.5         | 38.3         |
| 9/2/2020   |              |              |
| 5/17/2021  |              |              |
| 5/18/2021  |              |              |
| 5/19/2021  | 59.5         | 1.93         |
| 5/25/2021  |              |              |
| 10/25/2021 |              |              |
| 10/26/2021 | 73.2         |              |
| 11/1/2021  |              | 5.66         |
| 5/23/2022  | 95.1         |              |
| 5/24/2022  |              | 3.79         |
| 5/25/2022  |              |              |
| 10/31/2022 | 103          |              |
| 11/1/2022  |              | 6.08         |
| 11/2/2022  |              |              |
| 4/3/2023   |              |              |
| 4/4/2023   |              |              |
| 4/5/2023   |              |              |
| 4/24/2023  | 63.599998    | 8.99         |



# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/23/2023 11:17 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-22H | BY-AP-MW-23H | BY-AP-MW-23V | BY-AP-MW-24H | BY-AP-MW-25H | BY-AP-MW-3 | BY-AP-MW-4 | BY-AP-MW-5 | BY-AP-MW-5V |
|------------|--------------|--------------|--------------|--------------|--------------|------------|------------|------------|-------------|
| 3/1/2016   |              |              |              |              |              |            | 2.58       | <5         |             |
| 3/2/2016   |              |              |              |              |              | 0.79 (J)   |            |            |             |
| 4/19/2016  |              |              |              |              |              | 0.674 (J)  | 2.3        |            |             |
| 4/20/2016  |              |              |              |              |              |            |            | <5         |             |
| 6/7/2016   |              |              |              |              |              | 1          | 2.58       | 0.583 (J)  |             |
| 8/30/2016  |              |              |              |              |              |            | 2.81       | <5         |             |
| 8/31/2016  |              |              |              |              |              | 0.702 (J)  |            |            |             |
| 10/18/2016 |              |              |              |              |              |            |            | <5         |             |
| 10/19/2016 |              |              |              |              |              | 0.739 (J)  | 5.06       |            |             |
| 3/21/2017  |              |              |              |              |              | <5         | 3.4 (J)    |            |             |
| 3/22/2017  |              |              |              |              |              |            |            | <5         |             |
| 5/2/2017   |              |              |              |              |              | <5         | 2.7 (J)    |            |             |
| 5/3/2017   |              |              |              |              |              |            |            | <5         |             |
| 6/6/2017   |              |              |              |              |              | <5         | 1.5 (J)    |            |             |
| 6/7/2017   |              |              |              |              |              |            |            | <5         |             |
| 9/12/2017  |              |              |              |              |              | <5         | 1.9 (J)    |            |             |
| 9/14/2017  |              |              |              |              |              |            |            | <5         |             |
| 5/1/2018   |              |              |              |              |              | <5         | 1.4 (J)    |            |             |
| 5/2/2018   |              |              |              |              |              |            |            | <5         |             |
| 8/28/2018  |              |              |              |              |              | <5         | <5         |            |             |
| 8/29/2018  |              |              |              |              |              |            |            | 1.6 (J)    |             |
| 11/27/2018 |              |              |              |              |              | <5         | 2.3 (J)    | 2.7 (J)    |             |
| 11/28/2018 |              |              |              |              |              |            |            |            |             |
| 1/8/2019   |              |              |              | 31.2         |              |            |            |            | 1.75        |
| 5/29/2019  |              |              |              |              |              | 0.747 (J)  | 2.92       | 5.51       |             |
| 7/31/2019  | 171          | 18.4         |              |              |              |            |            |            |             |
| 9/30/2019  |              |              |              |              |              |            |            |            |             |
| 10/1/2019  | 17.2         | 4.89         |              |              |              | 0.61 (J)   | 2.09       | 7.4        |             |
| 10/2/2019  |              |              |              | 92.3         |              |            |            |            | 5.8         |
| 3/30/2020  |              |              |              |              |              |            |            |            |             |
| 3/31/2020  |              |              |              | 84.5         |              | 1.02       | 4.12       | 23.7 (o)   | 0.98 (J)    |
| 4/1/2020   |              | 18.1         |              |              |              |            |            |            |             |
| 9/1/2020   | 93.2         | 24.5         | 9.25         |              |              | 0.705 (J)  | 1.83       | 11         | 1.47        |
| 9/2/2020   |              |              |              | 59.7         | 4.39         |            |            |            |             |
| 5/17/2021  |              |              | 6.92         |              |              |            |            |            |             |
| 5/18/2021  |              |              |              |              |              | 0.883 (J)  | 4.43       |            |             |
| 5/24/2021  |              | 3.99         |              |              | 4.94         |            |            |            |             |
| 5/25/2021  | 72.3         |              |              | 17           |              |            |            |            |             |
| 10/26/2021 | 140          | 29.5         | 4.23         | 122          |              |            |            |            |             |
| 10/27/2021 |              |              |              |              |              |            |            |            |             |
| 11/1/2021  |              |              |              |              |              | 1.01       | 3.34       |            |             |
| 11/2/2021  |              |              |              |              | 4.28         |            |            | 15         | 1.34        |
| 5/24/2022  | 103          |              |              | 92.3         |              |            |            |            |             |
| 5/25/2022  |              | 4.01         | 4.25         |              | 4.24         | 1.41 (J)   | 1.97 (J)   | 5.53       | 2.91        |
| 10/31/2022 | 110          |              |              |              | 4.57         |            | 1.02 (J)   | 15.2       | 7.44        |
| 11/1/2022  |              | 5.37         | 11           |              |              | 1.66 (J)   |            |            |             |
| 11/2/2022  |              |              |              | 19.9         |              |            |            |            |             |
| 4/3/2023   |              |              |              | 94           | 4.48         |            |            |            |             |
| 4/4/2023   |              | 15.2         | 32.900002    |              |              | 2.92       | 2.33       | 43.900002  | 4.84        |
| 4/24/2023  | 152          |              |              |              |              |            |            |            |             |

# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/23/2023 11:17 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-6 | BY-AP-MW-7 |
|------------|------------|------------|
| 3/1/2016   | 0.36 (J)   | 0.3 (J)    |
| 3/2/2016   |            |            |
| 4/19/2016  | 0.435 (J)  |            |
| 4/20/2016  |            | 0.514 (J)  |
| 6/7/2016   | 1.22       | 0.971 (J)  |
| 8/30/2016  | 1.08       |            |
| 8/31/2016  |            | 0.445 (J)  |
| 10/18/2016 |            |            |
| 10/19/2016 | 1.01       | 0.366 (J)  |
| 3/21/2017  |            |            |
| 3/22/2017  | <5         | <5         |
| 5/2/2017   |            |            |
| 5/3/2017   | 1.4 (J)    | <5         |
| 6/6/2017   |            |            |
| 6/7/2017   | 1.5 (J)    | <5         |
| 9/12/2017  |            |            |
| 9/14/2017  | 1.8 (J)    | <5         |
| 5/1/2018   |            |            |
| 5/2/2018   | <5         | <5         |
| 8/28/2018  |            |            |
| 8/29/2018  | <5         |            |
| 11/27/2018 |            |            |
| 11/28/2018 | <5         | <5         |
| 1/8/2019   |            |            |
| 5/29/2019  | 1.17       | 2.77       |
| 7/31/2019  |            |            |
| 9/30/2019  |            | 2.51       |
| 10/1/2019  | 1.04       |            |
| 10/2/2019  |            |            |
| 3/30/2020  |            | 4.78       |
| 3/31/2020  | 1.21       |            |
| 4/1/2020   |            |            |
| 9/1/2020   |            |            |
| 9/2/2020   | 1.02       | 3.59       |
| 5/17/2021  | 0.981 (J)  |            |
| 5/18/2021  |            | 4.6        |
| 5/24/2021  |            |            |
| 5/25/2021  |            |            |
| 10/26/2021 |            |            |
| 10/27/2021 |            | 5.17       |
| 11/1/2021  |            |            |
| 11/2/2021  | 1.37       |            |
| 5/24/2022  |            | 7.14       |
| 5/25/2022  | 1.27 (J)   |            |
| 10/31/2022 | 1.22 (J)   | 33.799999  |
| 11/1/2022  |            |            |
| 11/2/2022  |            |            |
| 4/3/2023   |            | 14.8       |
| 4/4/2023   | 1.59 (J)   |            |
| 4/24/2023  |            |            |

# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/23/2023 11:17 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-7V | BY-AP-MW-8 | BY-AP-MW-8V | BY-AP-MW-9 | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|------------|-------------|------------|-------------|------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 2/23/2016  |             |            |             |            | 8.59            | 7.2             | 7.44            | 7.04            |              |
| 3/1/2016   |             | <5         |             | <5         |                 |                 |                 |                 |              |
| 4/19/2016  |             |            |             |            | 8.27            | 7.22            | 7.66            | 6.74            |              |
| 4/20/2016  |             | <5         |             | <5         |                 |                 |                 |                 |              |
| 6/6/2016   |             |            |             |            | 8.66            |                 |                 | 7.04            |              |
| 6/7/2016   |             | 0.504 (J)  |             |            |                 | 7.92            | 8.16            |                 |              |
| 6/8/2016   |             |            |             | 0.51 (J)   |                 |                 |                 |                 |              |
| 8/30/2016  |             | <5         |             |            | 9.74            | 8.17            | 8.43            | 7.57            |              |
| 8/31/2016  |             |            |             | <5         |                 |                 |                 |                 |              |
| 10/18/2016 |             | <5         |             |            | 10.2            | 7.99            | 8.47            | 6.62            |              |
| 10/19/2016 |             |            |             | <5         |                 |                 |                 |                 |              |
| 3/20/2017  |             |            |             |            | 8.3             | 6.1             | 7.4             | 7               |              |
| 3/22/2017  |             | <5         |             | <5         |                 |                 |                 |                 |              |
| 5/2/2017   |             |            |             |            | 6.6             | 5               | 6.3             | 5.6             |              |
| 5/3/2017   |             | 2.7 (J)    |             | 2.7 (J)    |                 |                 |                 |                 |              |
| 6/6/2017   |             |            |             |            | 7.6             | 5.3             | 7.1             | 6.6             |              |
| 6/7/2017   |             | <5         |             | <5         |                 |                 |                 |                 |              |
| 9/12/2017  |             |            |             |            |                 |                 |                 | 7.2             |              |
| 9/13/2017  |             |            |             |            | 8.4             | 4.9 (J)         | 7.3             |                 |              |
| 9/14/2017  |             | <5         |             | <5         |                 |                 |                 |                 |              |
| 5/1/2018   |             |            |             |            |                 | 4.2 (J)         | 6.9             | 5.9             |              |
| 5/2/2018   |             | <5         |             | <5         | 5.9             |                 |                 |                 |              |
| 8/28/2018  |             |            |             | <5         |                 |                 |                 |                 |              |
| 8/29/2018  |             | <5         |             |            |                 |                 |                 |                 |              |
| 11/26/2018 |             |            |             |            |                 |                 |                 | 5.1             |              |
| 11/27/2018 |             | <5         |             |            | 22              |                 | 6.5             |                 |              |
| 11/28/2018 |             |            |             | 1.4 (J)    |                 |                 |                 |                 |              |
| 1/9/2019   | 3.69        |            | 1.74        |            |                 |                 |                 |                 |              |
| 5/28/2019  |             |            |             |            |                 |                 |                 | 7.1             |              |
| 5/29/2019  |             | 6.01       |             |            | 23.3            | 5.94            | 7.81            |                 |              |
| 5/30/2019  |             |            |             | 5.91       |                 |                 |                 |                 |              |
| 9/30/2019  |             | 5.29       |             | 3.77       |                 |                 |                 |                 |              |
| 10/1/2019  | 2           |            | 7           |            |                 |                 |                 |                 |              |
| 10/2/2019  |             |            |             |            | 17.5            | 6.04            | 7.62            | 6.88            |              |
| 3/30/2020  | 9.65        | 33.1       | 75.8        |            |                 |                 |                 |                 |              |
| 3/31/2020  |             |            |             | 43.5       | 24.3            | 6.83            | 7.98            | 10.8            |              |
| 9/2/2020   | 6.7         | 15.8       | 24          | 21.9       |                 |                 |                 |                 | 2.26         |
| 9/8/2020   |             |            |             |            |                 |                 |                 | 6.52            |              |
| 9/9/2020   |             |            |             |            | 16.5            | 6.08            | 7.13            |                 |              |
| 5/11/2021  |             | 35.4       |             |            |                 | 7.92            | 7.73            | 6.8             |              |
| 5/12/2021  |             |            |             |            | 16.3            |                 |                 |                 |              |
| 5/18/2021  | 5.53        |            | 19.6        | 27.7       |                 |                 |                 |                 |              |
| 5/24/2021  |             |            |             |            |                 |                 |                 |                 | 2.59         |
| 10/18/2021 |             |            |             |            |                 |                 | 7.36            | 6.58            |              |
| 10/19/2021 |             |            |             |            | 15.5            | 7.48            |                 |                 |              |
| 10/26/2021 |             | 25.7       | 58.2        |            |                 |                 |                 |                 |              |
| 10/27/2021 | 5.31        |            |             | 6.33       |                 |                 |                 |                 |              |
| 11/2/2021  |             |            |             |            |                 |                 |                 |                 | 2.08         |
| 5/23/2022  |             |            | 8.35        |            |                 |                 |                 |                 |              |
| 5/24/2022  | 6.06        | 81.3       |             | 5.76       |                 |                 |                 |                 |              |
| 5/25/2022  |             |            |             |            |                 |                 |                 |                 | 2.13         |
| 5/31/2022  |             |            |             |            | 12.8            | 8.09            | 7.02            | 7.94            |              |

# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/23/2023 11:17 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | BY-AP-MW-7V | BY-AP-MW-8 | BY-AP-MW-8V | BY-AP-MW-9 | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|------------|-------------|------------|-------------|------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 10/31/2022 | 6.09        |            | 10          | 11.4       |                 |                 |                 |                 |              |
| 11/1/2022  |             |            |             |            | 11.3            | 7.11            | 6.83            | 4.59            | 1.85 (J)     |
| 11/2/2022  |             | 7.58       |             |            |                 |                 |                 |                 |              |
| 4/3/2023   | 5.29        | 32.099998  | 21.700001   |            |                 |                 |                 |                 | 2.28         |
| 4/4/2023   |             |            |             | 25.299999  |                 |                 |                 |                 |              |
| 4/12/2023  |             |            |             |            | 11.8            | 8.54            | 7.59            | 5.93            |              |



# Time Series

Constituent: TDS (mg/L) Analysis Run 6/23/2023 11:17 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-14V | BY-AP-MW-15 |
|------------|--------------|-------------|
| 3/1/2016   |              |             |
| 3/2/2016   |              | 182         |
| 4/19/2016  |              | 151         |
| 4/20/2016  |              |             |
| 6/8/2016   |              | 168         |
| 8/30/2016  |              |             |
| 8/31/2016  |              | 188         |
| 10/18/2016 |              |             |
| 10/19/2016 |              | 180         |
| 1/31/2017  |              | 166         |
| 2/1/2017   |              |             |
| 5/2/2017   |              | 183         |
| 5/3/2017   |              |             |
| 6/6/2017   |              | 187         |
| 6/7/2017   |              |             |
| 9/13/2017  |              | 202         |
| 9/14/2017  |              |             |
| 5/1/2018   |              | 197         |
| 5/2/2018   |              |             |
| 8/28/2018  |              |             |
| 8/29/2018  |              | 192         |
| 11/27/2018 |              | 190         |
| 11/28/2018 |              |             |
| 1/8/2019   |              |             |
| 5/29/2019  |              | 198         |
| 5/30/2019  |              |             |
| 9/30/2019  |              |             |
| 10/1/2019  |              | 236         |
| 10/2/2019  |              |             |
| 3/30/2020  |              |             |
| 3/31/2020  |              |             |
| 4/1/2020   |              | 231         |
| 9/1/2020   |              |             |
| 9/2/2020   | 498          | 208         |
| 5/11/2021  |              | 279         |
| 5/18/2021  |              |             |
| 5/19/2021  |              |             |
| 5/25/2021  | 520          |             |
| 10/26/2021 | 474          | 269         |
| 10/27/2021 |              |             |
| 11/1/2021  |              |             |
| 11/2/2021  |              |             |
| 5/23/2022  |              |             |
| 5/24/2022  | 508          |             |
| 5/25/2022  |              | 255         |
| 11/1/2022  | 464          | 278         |
| 11/2/2022  |              |             |
| 4/3/2023   |              | 285         |
| 4/4/2023   | 464          |             |
| 4/5/2023   |              |             |

# Time Series

Constituent: TDS (mg/L) Analysis Run 6/23/2023 11:17 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-15V | BY-AP-MW-16 | BY-AP-MW-16V | BY-AP-MW-17H | BY-AP-MW-17V | BY-AP-MW-18H | BY-AP-MW-19H | BY-AP-MW-1V | BY-AP-MW-2 |
|------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|-------------|------------|
| 3/2/2016   |              | 263         |              |              |              |              |              |             | 42         |
| 4/19/2016  |              | 259         |              |              |              |              |              |             | 51.3       |
| 6/8/2016   |              | 285         |              |              |              |              |              |             | 46.7       |
| 8/31/2016  |              | 279         |              |              |              |              |              |             | 32.7       |
| 10/19/2016 |              | 264         |              |              |              |              |              |             | 37.3       |
| 1/31/2017  |              | 270         |              |              |              |              |              |             | 47.3       |
| 5/2/2017   |              | 259         |              |              |              |              |              |             | 44         |
| 6/6/2017   |              | 278         |              |              |              |              |              |             | 48         |
| 9/12/2017  |              |             |              |              |              |              |              |             | 40.7       |
| 9/13/2017  |              | 333         |              |              |              |              |              |             |            |
| 5/1/2018   |              | 274         |              |              |              |              |              |             | 42.7       |
| 8/28/2018  |              |             |              |              |              |              |              |             | 28         |
| 8/29/2018  |              | 283         |              |              |              |              |              |             |            |
| 11/27/2018 |              | 250         |              |              |              |              |              |             | 48         |
| 1/8/2019   |              |             |              |              |              |              |              | 192         |            |
| 3/20/2019  |              |             |              |              |              | 293          |              |             |            |
| 5/29/2019  |              | 264         |              |              |              |              |              |             | 47.3       |
| 7/31/2019  | 337          |             |              | 212          |              |              | 318          |             |            |
| 10/1/2019  | 321          | 295         |              |              |              | 283          | 316          |             | 44.7       |
| 10/2/2019  |              |             |              | 203          |              |              |              | 154         |            |
| 3/30/2020  |              |             |              |              |              |              |              | 160         |            |
| 3/31/2020  |              | 276         |              |              |              |              |              |             | 42         |
| 4/1/2020   |              |             |              | 243          |              | 210          |              |             |            |
| 8/31/2020  |              |             |              |              |              |              |              |             | 45.3       |
| 9/1/2020   | 318          |             |              | 236          | 576          | 281          | 294          | 175         |            |
| 9/2/2020   |              | 279         | 219          |              |              |              |              |             |            |
| 5/17/2021  |              |             |              | 201          |              |              |              |             |            |
| 5/18/2021  |              |             |              |              | 438          |              |              | 189         | 48.7       |
| 5/19/2021  |              | 274         | 213          |              |              | 293          |              |             |            |
| 5/25/2021  | 335          |             |              |              |              |              | 162          |             |            |
| 10/25/2021 |              |             |              | 225          | 280          | 302          | 123          |             |            |
| 10/26/2021 | 358          |             | 195          |              |              |              |              |             |            |
| 11/1/2021  |              | 324         |              |              |              |              |              | 190         | 52         |
| 5/23/2022  |              |             |              |              |              | 292          |              |             |            |
| 5/24/2022  | 348          |             |              |              |              |              | 133          | 176         | 40.7       |
| 5/25/2022  |              | 299         | 188          | 194          | 1270         |              |              |             |            |
| 10/31/2022 |              |             |              | 206          | 1720         | 303          | 249          |             |            |
| 11/1/2022  |              | 330         | 184          |              |              |              |              | 220         |            |
| 11/2/2022  | 358          |             |              |              |              |              |              |             | 41.299999  |
| 4/3/2023   |              |             |              |              |              |              |              |             | 40.700001  |
| 4/4/2023   |              |             | 187          | 171          | 2690         |              |              | 219         |            |
| 4/5/2023   |              | 327         |              |              |              | 85.300003    |              |             |            |
| 4/24/2023  | 352          |             |              |              |              |              | 261          |             |            |

# Time Series

Constituent: TDS (mg/L) Analysis Run 6/23/2023 11:17 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-20H | BY-AP-MW-20V |
|------------|--------------|--------------|
| 3/2/2016   |              |              |
| 4/19/2016  |              |              |
| 6/8/2016   |              |              |
| 8/31/2016  |              |              |
| 10/19/2016 |              |              |
| 1/31/2017  |              |              |
| 5/2/2017   |              |              |
| 6/6/2017   |              |              |
| 9/12/2017  |              |              |
| 9/13/2017  |              |              |
| 5/1/2018   |              |              |
| 8/28/2018  |              |              |
| 8/29/2018  |              |              |
| 11/27/2018 |              |              |
| 1/8/2019   |              |              |
| 3/20/2019  |              |              |
| 5/29/2019  |              |              |
| 7/31/2019  | 481          |              |
| 10/1/2019  | 470          |              |
| 10/2/2019  |              |              |
| 3/30/2020  |              |              |
| 3/31/2020  |              |              |
| 4/1/2020   | 319          |              |
| 8/31/2020  |              |              |
| 9/1/2020   | 479          | 308          |
| 9/2/2020   |              |              |
| 5/17/2021  |              |              |
| 5/18/2021  |              |              |
| 5/19/2021  | 479          | 271          |
| 5/25/2021  |              |              |
| 10/25/2021 |              |              |
| 10/26/2021 | 493          |              |
| 11/1/2021  |              | 282          |
| 5/23/2022  | 462          |              |
| 5/24/2022  |              | 296          |
| 5/25/2022  |              |              |
| 10/31/2022 | 482          |              |
| 11/1/2022  |              | 275          |
| 11/2/2022  |              |              |
| 4/3/2023   |              |              |
| 4/4/2023   |              |              |
| 4/5/2023   |              |              |
| 4/24/2023  | 473          | 161          |





# Time Series

Constituent: TDS (mg/L) Analysis Run 6/23/2023 11:17 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-6 | BY-AP-MW-7 |
|------------|------------|------------|
| 3/1/2016   | 45.3       | 129        |
| 3/2/2016   |            |            |
| 4/19/2016  | 46         |            |
| 4/20/2016  |            | 128        |
| 6/7/2016   | 46         | 140        |
| 8/30/2016  | 30         |            |
| 8/31/2016  |            | 112        |
| 10/18/2016 |            |            |
| 10/19/2016 | 37.3       | 134        |
| 1/31/2017  | 43.3       | 134        |
| 5/2/2017   |            |            |
| 5/3/2017   | 44.7       | 127        |
| 6/6/2017   |            |            |
| 6/7/2017   | 45.3       | 134        |
| 9/12/2017  |            |            |
| 9/14/2017  | 48.7       | 141        |
| 5/1/2018   |            |            |
| 5/2/2018   | 44         | 133        |
| 8/28/2018  |            |            |
| 8/29/2018  | 50         |            |
| 11/27/2018 |            |            |
| 11/28/2018 | 50.7       | 138        |
| 1/8/2019   |            |            |
| 5/29/2019  | 48.7       | 132        |
| 7/31/2019  |            |            |
| 9/30/2019  |            | 137        |
| 10/1/2019  | 38         |            |
| 10/2/2019  |            |            |
| 3/30/2020  |            | 135        |
| 3/31/2020  | 42         |            |
| 4/1/2020   |            |            |
| 9/1/2020   |            |            |
| 9/2/2020   | 37.3       | 129        |
| 5/17/2021  | 46.7       |            |
| 5/18/2021  |            | 175        |
| 5/24/2021  |            |            |
| 5/25/2021  |            |            |
| 10/26/2021 |            |            |
| 10/27/2021 |            | 123        |
| 11/1/2021  |            |            |
| 11/2/2021  | 38         |            |
| 5/24/2022  |            | 148        |
| 5/25/2022  | 40.7       |            |
| 10/31/2022 | 46         | 291        |
| 11/1/2022  |            |            |
| 11/2/2022  |            |            |
| 4/3/2023   |            | 198        |
| 4/4/2023   | 40         |            |
| 4/24/2023  |            |            |

# Time Series

Constituent: TDS (mg/L) Analysis Run 6/23/2023 11:17 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-7V | BY-AP-MW-8 | BY-AP-MW-8V | BY-AP-MW-9 | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|------------|-------------|------------|-------------|------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 2/23/2016  |             |            |             |            | 26.7            | 30.7            | 40              | <25             |              |
| 3/1/2016   |             | 309        |             | 314        |                 |                 |                 |                 |              |
| 4/19/2016  |             |            |             |            | <25             | <25             | 32              | <25             |              |
| 4/20/2016  |             | 324        |             | 338        |                 |                 |                 |                 |              |
| 6/6/2016   |             |            |             |            | 32.7            |                 |                 | 28.7            |              |
| 6/7/2016   |             | 314        |             |            |                 | 35.3            | 38.7            |                 |              |
| 6/8/2016   |             |            |             | 288        |                 |                 |                 |                 |              |
| 8/30/2016  |             | 308        |             |            | 33.3            | 27.3            | 31.3            | 25.3            |              |
| 8/31/2016  |             |            |             | 334        |                 |                 |                 |                 |              |
| 10/18/2016 |             | 295        |             |            | 27.3            | <25             | 26.7            | <25             |              |
| 10/19/2016 |             |            |             | 333        |                 |                 |                 |                 |              |
| 1/31/2017  |             | 303        |             |            | 32              | 32.7            | 30              | 26              |              |
| 2/1/2017   |             |            |             | 330        |                 |                 |                 |                 |              |
| 5/2/2017   |             |            |             |            | 31.3            | 30.7            | 30.7            | <25             |              |
| 5/3/2017   |             | 300        |             | 338        |                 |                 |                 |                 |              |
| 6/6/2017   |             |            |             |            | 35.3            | 34.7            | 32.7            | 42.7            |              |
| 6/7/2017   |             | 284        |             | 300        |                 |                 |                 |                 |              |
| 9/12/2017  |             |            |             |            |                 |                 |                 | 26.7            |              |
| 9/13/2017  |             |            |             |            | 36.7            | 39.3            | 38              |                 |              |
| 9/14/2017  |             | 325        |             | 350        |                 |                 |                 |                 |              |
| 5/1/2018   |             |            |             |            |                 | 42              | 35.3            | 34.7            |              |
| 5/2/2018   |             | 306        |             | 333        | 34              |                 |                 |                 |              |
| 8/28/2018  |             |            |             | 324        |                 |                 |                 |                 |              |
| 8/29/2018  |             | 287        |             |            |                 |                 |                 |                 |              |
| 11/26/2018 |             |            |             |            |                 |                 |                 | 32.7            |              |
| 11/27/2018 |             | 303        |             |            | 50.7            | 31.3            | 36              |                 |              |
| 11/28/2018 |             |            |             | 330        |                 |                 |                 |                 |              |
| 1/9/2019   | 240         |            | 276         |            |                 |                 |                 |                 |              |
| 5/28/2019  |             |            |             |            |                 |                 |                 | 31.3            |              |
| 5/29/2019  |             | 291        |             |            | 58              | 40              | 37.3            |                 |              |
| 5/30/2019  |             |            |             | 315        |                 |                 |                 |                 |              |
| 9/30/2019  |             | 293        |             | 319        |                 |                 |                 |                 |              |
| 10/1/2019  | 182         |            | 324         |            |                 |                 |                 |                 |              |
| 10/2/2019  |             |            |             |            | 46              | 41.3            | 36.7            | 36              |              |
| 3/30/2020  | 204         | 310        | 328         |            |                 |                 |                 |                 |              |
| 3/31/2020  |             |            |             | 330        | 53.3            | 40              | 39.3            | 36.7            |              |
| 9/2/2020   | 168         | 298        | 318         | 301        |                 |                 |                 |                 | 34           |
| 9/8/2020   |             |            |             |            |                 |                 |                 | 39.3            |              |
| 9/9/2020   |             |            |             |            | 42              | 40.7            | 42.7            |                 |              |
| 5/11/2021  |             | 318        |             |            |                 | 35.3            | 44              | 46.7            |              |
| 5/12/2021  |             |            |             |            | 40.7            |                 |                 |                 |              |
| 5/18/2021  | 192         |            | 331         | 314        |                 |                 |                 |                 |              |
| 5/24/2021  |             |            |             |            |                 |                 |                 |                 | 26.7         |
| 10/18/2021 |             |            |             |            |                 |                 | 36              | 36              |              |
| 10/19/2021 |             |            |             |            | 40              | 36              |                 |                 |              |
| 10/26/2021 |             | 332        | 350         |            |                 |                 |                 |                 |              |
| 10/27/2021 | 169         |            |             | 302        |                 |                 |                 |                 |              |
| 11/2/2021  |             |            |             |            |                 |                 |                 |                 | 36           |
| 5/23/2022  |             |            | 331         |            |                 |                 |                 |                 |              |
| 5/24/2022  | 228         | 303        |             | 268        |                 |                 |                 |                 |              |
| 5/25/2022  |             |            |             |            |                 |                 |                 |                 | 29.3         |
| 5/31/2022  |             |            |             |            | 32              | 30.7            | 35.3            | 36.7            |              |

# Time Series

Constituent: TDS (mg/L) Analysis Run 6/23/2023 11:17 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | BY-AP-MW-7V | BY-AP-MW-8 | BY-AP-MW-8V | BY-AP-MW-9 | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|------------|-------------|------------|-------------|------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 10/31/2022 | 357         |            | 328         | 329        |                 |                 |                 |                 |              |
| 11/1/2022  |             |            |             |            | 33.299999       | 36              | 36              | 31.299999       | 32           |
| 11/2/2022  |             | 293        |             |            |                 |                 |                 |                 |              |
| 4/3/2023   | 311         | 107        | 616         |            |                 |                 |                 |                 | 29.299999    |
| 4/4/2023   |             |            |             | 317        |                 |                 |                 |                 |              |
| 4/12/2023  |             |            |             |            | <25             | 27.299999       | 30.700001       | 32              |              |

# Time Series

Constituent: Thallium (mg/L) Analysis Run 6/23/2023 11:17 AM View: Descriptive

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-13V | BY-AP-MW-14 |
|------------|------------|-------------|--------------|-------------|-------------|--------------|--------------|--------------|-------------|
| 3/1/2016   |            | <0.000203   |              | <0.000203   |             |              |              |              |             |
| 3/2/2016   | <0.000203  |             |              |             | <0.000203   |              | <0.000203    |              | <0.000203   |
| 4/19/2016  | <0.000203  |             |              |             |             |              |              |              |             |
| 4/20/2016  |            | <0.000203   |              | <0.000203   | <0.000203   |              | <0.000203    |              | <0.000203   |
| 6/8/2016   | <0.000203  | <0.000203   |              | <0.000203   | <0.000203   |              | <0.000203    |              | <0.000203   |
| 8/30/2016  |            |             |              |             |             |              |              |              | <0.000203   |
| 8/31/2016  | <0.000203  | <0.000203   |              | <0.000203   | <0.000203   |              | <0.000203    |              |             |
| 10/18/2016 |            |             |              |             |             |              |              |              | <0.000203   |
| 10/19/2016 | <0.000203  | <0.000203   |              | <0.000203   | <0.000203   |              | <0.000203    |              |             |
| 1/31/2017  | <0.000203  |             |              |             |             |              | <0.000203    |              | <0.000203   |
| 2/1/2017   |            | <0.000203   |              | <0.000203   | <0.000203   |              |              |              |             |
| 5/2/2017   | <0.000203  |             |              |             |             |              |              |              | <0.000203   |
| 5/3/2017   |            | <0.000203   |              | <0.000203   | <0.000203   |              | <0.000203    |              |             |
| 6/6/2017   | <0.000203  |             |              |             |             |              |              |              | <0.000203   |
| 6/7/2017   |            | <0.000203   |              | <0.000203   | <0.000203   |              | 0.000878 (J) |              |             |
| 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    |              |             |
| 1/8/2019   |            |             | <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    |              | <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    | <0.000203    |              | <0.000203   |
| 4/1/2020   |            |             |              |             |             |              |              |              |             |
| 9/1/2020   | <0.000203  | <0.000203   | <0.000203    | <0.000203   | <0.000203   | <0.000203    | <0.000203    |              |             |
| 9/2/2020   |            |             |              |             |             |              |              | <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   |             |              | <0.000203    | <0.000203    |             |
| 5/25/2021  |            |             |              |             |             |              |              |              | <0.000203   |
| 10/26/2021 |            |             |              |             |             |              | <0.000203    | <0.000203    |             |
| 10/27/2021 |            | <0.000203   | <0.000203    |             |             |              |              |              | <0.000203   |
| 11/1/2021  | <0.000203  |             |              |             | <0.000203   | <0.000203    |              |              |             |
| 11/2/2021  |            |             |              | <0.000203   |             |              |              |              |             |
| 5/23/2022  |            |             |              | <0.000203   | <0.000203   | <0.000203    |              |              |             |
| 5/24/2022  | <0.000203  | <0.000203   | <0.000203    |             |             |              | <0.000203    |              |             |
| 5/25/2022  |            |             |              |             |             |              |              | <0.000203    | <0.000203   |
| 11/1/2022  |            |             | <0.000203    | <0.000203   | <0.000203   | <0.000203    | <0.000203    | <0.000203    | <0.000203   |
| 11/2/2022  | <0.000203  | <0.000203   |              |             |             |              |              |              |             |
| 4/3/2023   | <0.000203  | <0.000203   | <0.000203    |             |             |              |              |              |             |
| 4/4/2023   |            |             |              | <0.000203   | <0.000203   | <0.000203    | <0.000203    | <0.000203    |             |
| 4/5/2023   |            |             |              |             |             |              |              |              | <0.000203   |

# Time Series

Constituent: Thallium (mg/L) Analysis Run 6/23/2023 11:17 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-14V | BY-AP-MW-15 |
|------------|--------------|-------------|
| 3/1/2016   |              |             |
| 3/2/2016   |              | <0.000203   |
| 4/19/2016  |              | <0.000203   |
| 4/20/2016  |              |             |
| 6/8/2016   |              | <0.000203   |
| 8/30/2016  |              |             |
| 8/31/2016  |              | <0.000203   |
| 10/18/2016 |              |             |
| 10/19/2016 |              | <0.000203   |
| 1/31/2017  |              | <0.000203   |
| 2/1/2017   |              |             |
| 5/2/2017   |              | <0.000203   |
| 5/3/2017   |              |             |
| 6/6/2017   |              | <0.000203   |
| 6/7/2017   |              |             |
| 1/22/2018  |              | <0.000203   |
| 1/23/2018  |              |             |
| 1/24/2018  |              |             |
| 5/1/2018   |              | <0.000203   |
| 5/2/2018   |              |             |
| 11/27/2018 |              | <0.000203   |
| 11/28/2018 |              |             |
| 1/8/2019   |              |             |
| 5/29/2019  |              | <0.000203   |
| 5/30/2019  |              |             |
| 9/30/2019  |              |             |
| 10/1/2019  |              | <0.000203   |
| 10/2/2019  |              |             |
| 3/30/2020  |              |             |
| 3/31/2020  |              |             |
| 4/1/2020   |              | <0.000203   |
| 9/1/2020   |              |             |
| 9/2/2020   | <0.000203    | <0.000203   |
| 5/11/2021  |              | <0.000203   |
| 5/18/2021  |              |             |
| 5/19/2021  |              |             |
| 5/25/2021  | <0.000203    |             |
| 10/26/2021 | <0.000203    | <0.000203   |
| 10/27/2021 |              |             |
| 11/1/2021  |              |             |
| 11/2/2021  |              |             |
| 5/23/2022  |              |             |
| 5/24/2022  | <0.000203    |             |
| 5/25/2022  |              | <0.000203   |
| 11/1/2022  | <0.000203    | <0.000203   |
| 11/2/2022  |              |             |
| 4/3/2023   |              | <0.000203   |
| 4/4/2023   | <0.000203    |             |
| 4/5/2023   |              |             |

# Time Series

Constituent: Thallium (mg/L) Analysis Run 6/23/2023 11:17 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-15V | BY-AP-MW-16 | BY-AP-MW-16V | BY-AP-MW-17H | BY-AP-MW-17V | BY-AP-MW-18H | BY-AP-MW-19H | BY-AP-MW-1V | BY-AP-MW-2 |
|------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|-------------|------------|
| 3/2/2016   |              | <0.000203   |              |              |              |              |              |             | <0.000203  |
| 4/19/2016  |              | <0.000203   |              |              |              |              |              |             | <0.000203  |
| 6/8/2016   |              | <0.000203   |              |              |              |              |              |             | <0.000203  |
| 8/31/2016  |              | <0.000203   |              |              |              |              |              |             | <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  |
| 1/23/2018  |              | <0.000203   |              |              |              |              |              |             | <0.000203  |
| 1/24/2018  |              |             |              |              |              |              |              |             | <0.000203  |
| 5/1/2018   |              | <0.000203   |              |              |              |              |              |             | <0.000203  |
| 11/27/2018 |              | <0.000203   |              |              |              |              |              |             | <0.000203  |
| 1/8/2019   |              |             |              |              |              |              |              | <0.000203   |            |
| 3/20/2019  |              |             |              |              |              | <0.000203    |              |             |            |
| 5/29/2019  |              | <0.000203   |              |              |              |              |              |             | <0.000203  |
| 7/31/2019  | <0.001       |             |              | <0.000203    |              |              | <0.000203    |             |            |
| 10/1/2019  | <0.001       | <0.000203   |              |              |              | <0.000203    | <0.000203    |             | <0.000203  |
| 10/2/2019  |              |             |              | <0.000203    |              |              |              | <0.000203   |            |
| 3/30/2020  |              |             |              |              |              |              |              | <0.000203   |            |
| 3/31/2020  |              | <0.000203   |              |              |              |              |              |             | <0.000203  |
| 4/1/2020   |              |             |              | <0.000203    |              | <0.000203    |              |             |            |
| 8/31/2020  |              |             |              |              |              |              |              |             | <0.000203  |
| 9/1/2020   | <0.001       |             |              | <0.000203    | <0.0002      | <0.000203    | <0.000203    | <0.000203   |            |
| 9/2/2020   |              | <0.000203   | <0.001       |              |              |              |              |             |            |
| 5/17/2021  |              |             |              | <0.000203    |              |              |              |             |            |
| 5/18/2021  |              |             |              |              | <0.0002      |              |              | <0.000203   | <0.000203  |
| 5/19/2021  |              | <0.000203   | 9.13E-05 (J) |              |              | <0.000203    |              |             |            |
| 5/25/2021  | 8.49E-05 (J) |             |              |              |              |              | <0.000203    |             |            |
| 10/25/2021 |              |             |              | <0.000203    | <0.0002      | <0.000203    | <0.000203    |             |            |
| 10/26/2021 | 7E-05 (J)    |             | 0.0001 (J)   |              |              |              |              |             |            |
| 11/1/2021  |              | <0.000203   |              |              |              |              |              | <0.000203   | <0.000203  |
| 5/23/2022  |              |             |              |              |              | <0.000203    |              |             |            |
| 5/24/2022  | 0.00014 (J)  |             |              |              |              |              | <0.000203    | <0.000203   | <0.000203  |
| 5/25/2022  |              | <0.000203   | 9E-05 (J)    | <0.000203    | 0.0001 (J)   |              |              |             |            |
| 10/31/2022 |              |             |              | <0.000203    | 0.000166 (J) | <0.000203    | <0.000203    |             |            |
| 11/1/2022  |              | <0.000203   | 0.000112 (J) |              |              |              |              | <0.000203   |            |
| 11/2/2022  | 0.000133 (J) |             |              |              |              |              |              |             | <0.000203  |
| 4/3/2023   |              |             |              |              |              |              |              |             | <0.000203  |
| 4/4/2023   |              |             | 8.2E-05 (J)  | <0.000203    | 0.000362     |              |              | <0.000203   |            |
| 4/5/2023   |              | <0.000203   |              |              |              | <0.000203    |              |             |            |
| 4/24/2023  | 0.000107 (J) |             |              |              |              |              | <0.000203    |             |            |

# Time Series

Constituent: Thallium (mg/L) Analysis Run 6/23/2023 11:17 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-20H | BY-AP-MW-20V |
|------------|--------------|--------------|
| 3/2/2016   |              |              |
| 4/19/2016  |              |              |
| 6/8/2016   |              |              |
| 8/31/2016  |              |              |
| 10/19/2016 |              |              |
| 1/31/2017  |              |              |
| 5/2/2017   |              |              |
| 6/6/2017   |              |              |
| 1/23/2018  |              |              |
| 1/24/2018  |              |              |
| 5/1/2018   |              |              |
| 11/27/2018 |              |              |
| 1/8/2019   |              |              |
| 3/20/2019  |              |              |
| 5/29/2019  |              |              |
| 7/31/2019  | <0.000203    |              |
| 10/1/2019  | <0.000203    |              |
| 10/2/2019  |              |              |
| 3/30/2020  |              |              |
| 3/31/2020  |              |              |
| 4/1/2020   | <0.000203    |              |
| 8/31/2020  |              |              |
| 9/1/2020   | <0.000203    | <0.000203    |
| 9/2/2020   |              |              |
| 5/17/2021  |              |              |
| 5/18/2021  |              |              |
| 5/19/2021  | <0.000203    | <0.000203    |
| 5/25/2021  |              |              |
| 10/25/2021 |              |              |
| 10/26/2021 | <0.000203    |              |
| 11/1/2021  |              | <0.000203    |
| 5/23/2022  | <0.000203    |              |
| 5/24/2022  |              | <0.000203    |
| 5/25/2022  |              |              |
| 10/31/2022 | <0.000203    |              |
| 11/1/2022  |              | <0.000203    |
| 11/2/2022  |              |              |
| 4/3/2023   |              |              |
| 4/4/2023   |              |              |
| 4/5/2023   |              |              |
| 4/24/2023  | <0.000203    | <0.000203    |



# Time Series

Constituent: Thallium (mg/L) Analysis Run 6/23/2023 11:17 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-22H | BY-AP-MW-23H | BY-AP-MW-23V | BY-AP-MW-24H | BY-AP-MW-25H | BY-AP-MW-3 | BY-AP-MW-4 | BY-AP-MW-5 | BY-AP-MW-5V |
|------------|--------------|--------------|--------------|--------------|--------------|------------|------------|------------|-------------|
| 3/1/2016   |              |              |              |              |              |            | <0.000203  | <0.000203  |             |
| 3/2/2016   |              |              |              |              |              | <0.000203  |            |            |             |
| 4/19/2016  |              |              |              |              |              | <0.000203  | <0.000203  |            |             |
| 4/20/2016  |              |              |              |              |              |            |            | <0.000203  |             |
| 6/7/2016   |              |              |              |              |              | <0.000203  | <0.000203  | <0.000203  |             |
| 8/30/2016  |              |              |              |              |              |            | <0.000203  | <0.000203  |             |
| 8/31/2016  |              |              |              |              |              | <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  |             |
| 1/24/2018  |              |              |              |              |              | <0.000203  | <0.000203  | <0.000203  |             |
| 5/1/2018   |              |              |              |              |              | <0.000203  | <0.000203  |            |             |
| 5/2/2018   |              |              |              |              |              |            |            | <0.000203  |             |
| 11/27/2018 |              |              |              |              |              | <0.000203  | <0.000203  | <0.000203  |             |
| 11/28/2018 |              |              |              |              |              |            |            |            |             |
| 1/8/2019   |              |              |              | <0.000203    |              |            |            |            | <0.000203   |
| 5/29/2019  |              |              |              |              |              | <0.000203  | <0.000203  | <0.000203  |             |
| 7/31/2019  | <0.000203    | <0.000203    |              |              |              |            |            |            |             |
| 9/30/2019  |              |              |              |              |              |            |            |            |             |
| 10/1/2019  | <0.000203    | <0.000203    |              |              |              | <0.000203  | <0.000203  | <0.000203  |             |
| 10/2/2019  |              |              |              | <0.000203    |              |            |            |            | <0.000203   |
| 3/30/2020  |              |              |              |              |              |            |            |            |             |
| 3/31/2020  |              |              |              | <0.000203    |              | <0.000203  | <0.000203  | <0.000203  | <0.000203   |
| 4/1/2020   |              | <0.000203    |              |              |              |            |            |            |             |
| 9/1/2020   | <0.000203    | <0.000203    | <0.000203    |              |              | <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  | <0.000203  |            |             |
| 5/24/2021  |              | <0.000203    |              |              | <0.000203    |            |            |            |             |
| 5/25/2021  | <0.000203    |              |              | <0.000203    |              |            |            |            |             |
| 10/26/2021 | <0.000203    | <0.000203    | <0.000203    | <0.000203    |              |            |            |            |             |
| 10/27/2021 |              |              |              |              |              |            |            |            |             |
| 11/1/2021  |              |              |              |              |              | <0.000203  | <0.000203  |            |             |
| 11/2/2021  |              |              |              |              | <0.000203    |            |            | <0.000203  | <0.000203   |
| 5/24/2022  | <0.000203    |              |              | <0.000203    |              |            |            |            |             |
| 5/25/2022  |              | <0.000203    | <0.000203    |              | <0.000203    | <0.000203  | <0.000203  | <0.000203  | <0.000203   |
| 10/31/2022 | <0.000203    |              |              |              | <0.000203    | <0.000203  | <0.000203  | <0.000203  | <0.000203   |
| 11/1/2022  |              | <0.000203    | <0.000203    |              |              | <0.000203  |            |            |             |
| 11/2/2022  |              |              |              | <0.000203    |              |            |            |            |             |
| 4/3/2023   |              |              |              | <0.000203    | <0.000203    |            |            |            |             |
| 4/4/2023   |              | <0.000203    | <0.000203    |              |              | <0.000203  | <0.000203  | <0.000203  | <0.000203   |
| 4/24/2023  | <0.000203    |              |              |              |              |            |            |            |             |

# Time Series

Constituent: Thallium (mg/L) Analysis Run 6/23/2023 11:17 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-6 | BY-AP-MW-7 |
|------------|------------|------------|
| 3/1/2016   | <0.000203  | <0.000203  |
| 3/2/2016   |            |            |
| 4/19/2016  | <0.000203  |            |
| 4/20/2016  |            | <0.000203  |
| 6/7/2016   | <0.000203  | <0.000203  |
| 8/30/2016  | <0.000203  |            |
| 8/31/2016  |            | <0.000203  |
| 10/18/2016 |            |            |
| 10/19/2016 | <0.000203  | <0.000203  |
| 1/31/2017  | <0.000203  | <0.000203  |
| 5/2/2017   |            |            |
| 5/3/2017   | <0.000203  | <0.000203  |
| 6/6/2017   |            |            |
| 6/7/2017   | <0.000203  | <0.000203  |
| 1/24/2018  | <0.000203  | <0.000203  |
| 5/1/2018   |            |            |
| 5/2/2018   | <0.000203  | <0.000203  |
| 11/27/2018 |            |            |
| 11/28/2018 | <0.000203  | <0.000203  |
| 1/8/2019   |            |            |
| 5/29/2019  | <0.000203  | <0.000203  |
| 7/31/2019  |            |            |
| 9/30/2019  |            | <0.000203  |
| 10/1/2019  | <0.000203  |            |
| 10/2/2019  |            |            |
| 3/30/2020  |            | <0.000203  |
| 3/31/2020  | <0.000203  |            |
| 4/1/2020   |            |            |
| 9/1/2020   |            |            |
| 9/2/2020   | <0.000203  | <0.000203  |
| 5/17/2021  | <0.000203  |            |
| 5/18/2021  |            | <0.000203  |
| 5/24/2021  |            |            |
| 5/25/2021  |            |            |
| 10/26/2021 |            |            |
| 10/27/2021 |            | <0.000203  |
| 11/1/2021  |            |            |
| 11/2/2021  | <0.000203  |            |
| 5/24/2022  |            | <0.000203  |
| 5/25/2022  | <0.000203  |            |
| 10/31/2022 | <0.000203  | <0.000203  |
| 11/1/2022  |            |            |
| 11/2/2022  |            |            |
| 4/3/2023   |            | <0.000203  |
| 4/4/2023   | <0.000203  |            |
| 4/24/2023  |            |            |

# Time Series

Constituent: Thallium (mg/L) Analysis Run 6/23/2023 11:17 AM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-7V | BY-AP-MW-8 | BY-AP-MW-8V | BY-AP-MW-9 | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|------------|-------------|------------|-------------|------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 2/23/2016  |             |            |             |            | <0.000203       | <0.000203       | <0.000203       | <0.000203       |              |
| 3/1/2016   |             | <0.000203  |             | <0.000203  |                 |                 |                 |                 |              |
| 4/19/2016  |             |            |             |            | <0.000203       | <0.000203       | <0.000203       | <0.000203       |              |
| 4/20/2016  |             | <0.000203  |             | <0.000203  |                 |                 |                 |                 |              |
| 6/6/2016   |             |            |             |            | <0.000203       |                 |                 |                 | <0.000203    |
| 6/7/2016   |             | <0.000203  |             |            |                 | <0.000203       | <0.000203       |                 |              |
| 6/8/2016   |             |            |             | <0.000203  |                 |                 |                 |                 |              |
| 8/30/2016  |             | <0.000203  |             |            | <0.000203       | <0.000203       | <0.000203       | <0.000203       |              |
| 8/31/2016  |             |            |             | <0.000203  |                 |                 |                 |                 |              |
| 10/18/2016 |             | <0.000203  |             |            | <0.000203       | <0.000203       | <0.000203       | <0.000203       |              |
| 10/19/2016 |             |            |             | <0.000203  |                 |                 |                 |                 |              |
| 1/31/2017  |             | <0.000203  |             |            | <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  |             | <0.000203  |                 |                 |                 |                 |              |
| 6/6/2017   |             |            |             |            | <0.000203       | <0.000203       | <0.000203       | <0.000203       |              |
| 6/7/2017   |             | <0.000203  |             | <0.000203  |                 |                 |                 |                 |              |
| 1/23/2018  |             |            |             | <0.000203  | <0.000203       | <0.000203       | <0.000203       | <0.000203       |              |
| 1/24/2018  |             | <0.000203  |             |            |                 |                 |                 |                 |              |
| 5/1/2018   |             |            |             |            |                 | <0.000203       | <0.000203       | <0.000203       |              |
| 5/2/2018   |             | <0.000203  |             | <0.000203  | <0.000203       |                 |                 |                 |              |
| 11/26/2018 |             |            |             |            |                 |                 |                 |                 | <0.000203    |
| 11/27/2018 |             | <0.000203  |             |            | <0.000203       | <0.000203       | <0.000203       |                 |              |
| 11/28/2018 |             |            |             | <0.000203  |                 |                 |                 |                 |              |
| 1/9/2019   | <0.000203   |            | <0.000203   |            |                 |                 |                 |                 |              |
| 5/28/2019  |             |            |             |            |                 |                 |                 | <0.000203       |              |
| 5/29/2019  |             | <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   |            |                 |                 |                 |                 |              |
| 10/2/2019  |             |            |             |            | <0.000203       | <0.000203       | <0.000203       | <0.000203       |              |
| 3/30/2020  | <0.000203   | <0.000203  | <0.000203   |            |                 |                 |                 |                 |              |
| 3/31/2020  |             |            |             | <0.000203  | <0.000203       | <0.000203       | <0.000203       | <0.000203       |              |
| 9/2/2020   | <0.000203   | <0.000203  | <0.000203   | <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       | <0.000203       |              |
| 5/12/2021  |             |            |             |            | <0.000203       |                 |                 |                 |              |
| 5/18/2021  | <0.000203   |            | <0.000203   | <0.000203  |                 |                 |                 |                 |              |
| 5/24/2021  |             |            |             |            |                 |                 |                 |                 | <0.000203    |
| 10/18/2021 |             |            |             |            |                 |                 | <0.000203       | <0.000203       |              |
| 10/19/2021 |             |            |             |            | <0.000203       | <0.000203       |                 |                 |              |
| 10/26/2021 |             | <0.000203  | <0.000203   |            |                 |                 |                 |                 |              |
| 10/27/2021 | <0.000203   |            |             | <0.000203  |                 |                 |                 |                 |              |
| 11/2/2021  |             |            |             |            |                 |                 |                 |                 | <0.000203    |
| 5/23/2022  |             |            | <0.000203   |            |                 |                 |                 |                 |              |
| 5/24/2022  | <0.000203   | <0.000203  |             | <0.000203  |                 |                 |                 |                 |              |
| 5/25/2022  |             |            |             |            |                 |                 |                 |                 | <0.000203    |
| 5/31/2022  |             |            |             |            | <0.000203       | <0.000203       | <0.000203       | <0.000203       |              |
| 10/31/2022 | <0.000203   |            | <0.000203   | <0.000203  |                 |                 |                 |                 |              |
| 11/1/2022  |             |            |             |            | <0.000203       | <0.000203       | <0.000203       | <0.000203       | <0.000203    |
| 11/2/2022  |             | <0.000203  |             |            |                 |                 |                 |                 |              |

# Time Series

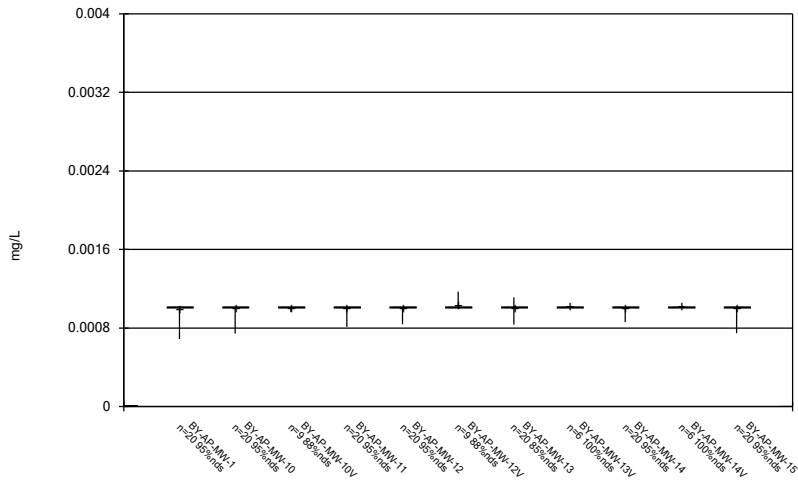
Constituent: Thallium (mg/L) Analysis Run 6/23/2023 11:17 AM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

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|           | BY-AP-MW-7V | BY-AP-MW-8 | BY-AP-MW-8V | BY-AP-MW-9 | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-25V |
|-----------|-------------|------------|-------------|------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 4/3/2023  | <0.000203   | <0.000203  | <0.000203   |            |                 |                 |                 |                 | <0.000203    |
| 4/4/2023  |             |            |             | <0.000203  |                 |                 |                 |                 |              |
| 4/12/2023 |             |            |             |            | <0.000203       | <0.000203       | <0.000203       | <0.000203       |              |

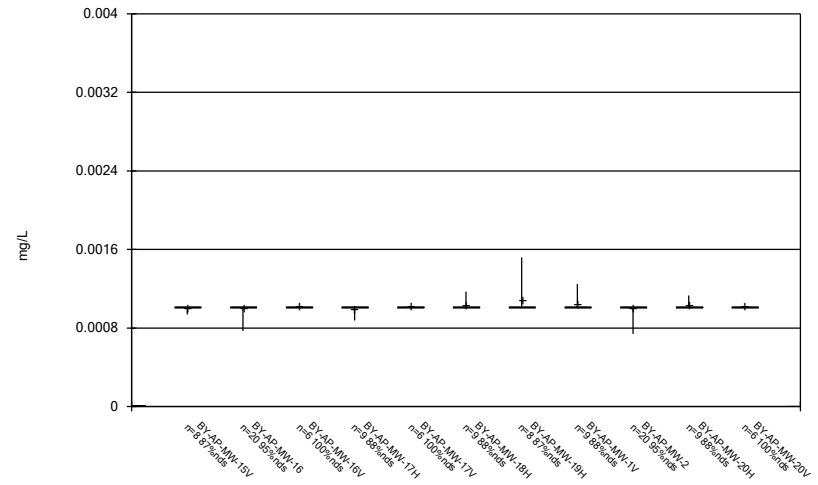
FIGURE B.

### Box & Whiskers Plot



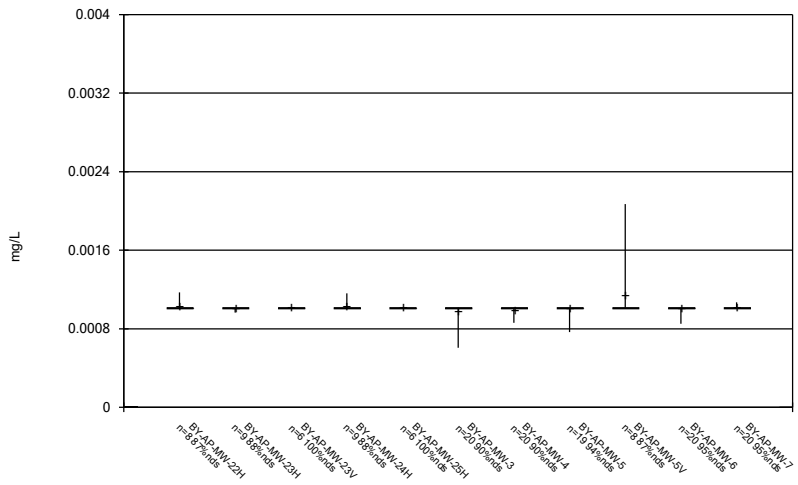
Constituent: Antimony Analysis Run 6/23/2023 5:20 PM View: Descriptive  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Box & Whiskers Plot



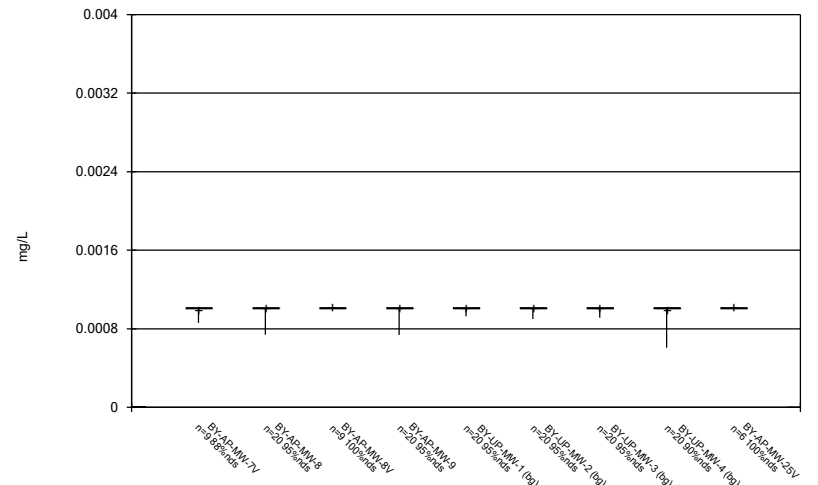
Constituent: Antimony Analysis Run 6/23/2023 5:20 PM View: Descriptive  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Box & Whiskers Plot



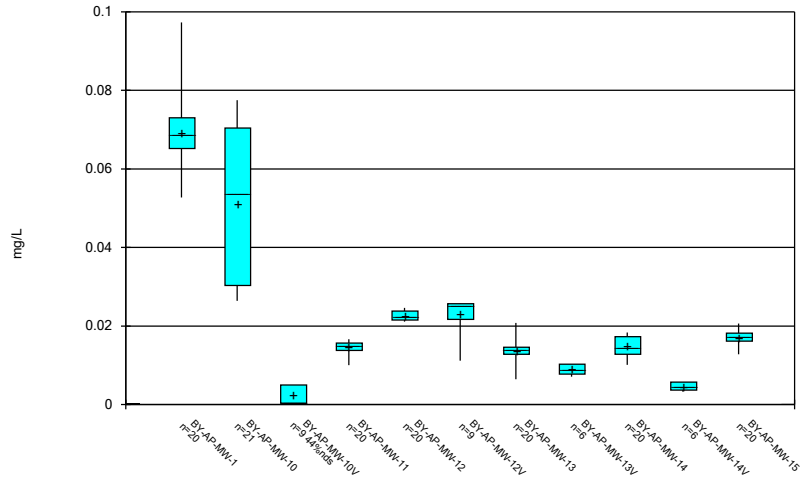
Constituent: Antimony Analysis Run 6/23/2023 5:20 PM View: Descriptive  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Box & Whiskers Plot



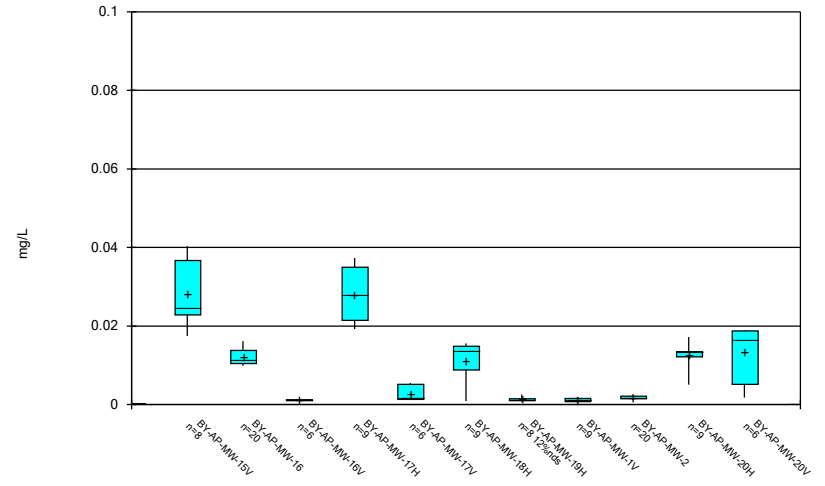
Constituent: Antimony Analysis Run 6/23/2023 5:20 PM View: Descriptive  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



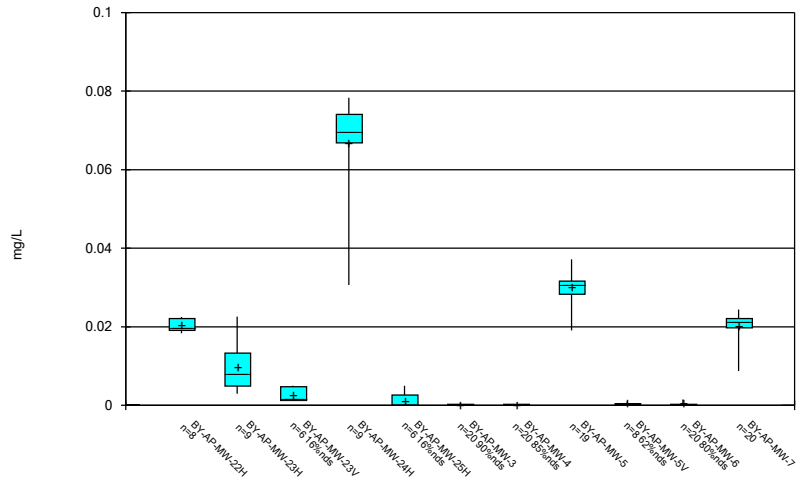
Constituent: Arsenic Analysis Run 6/23/2023 5:20 PM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



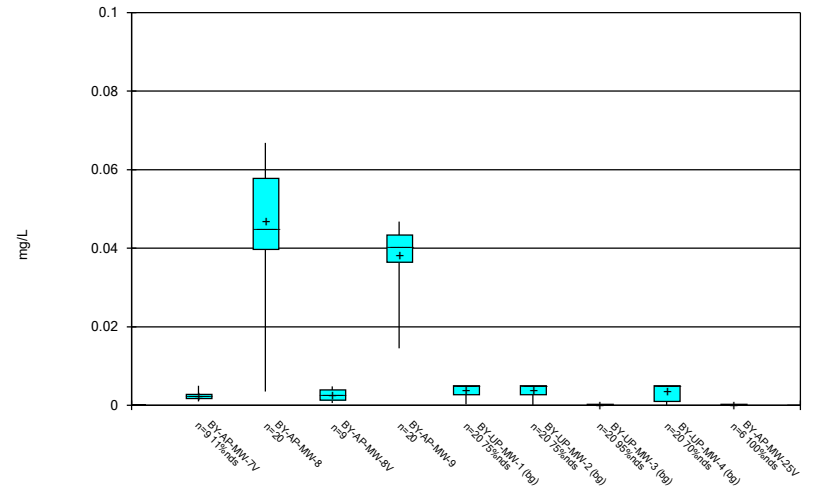
Constituent: Arsenic Analysis Run 6/23/2023 5:20 PM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



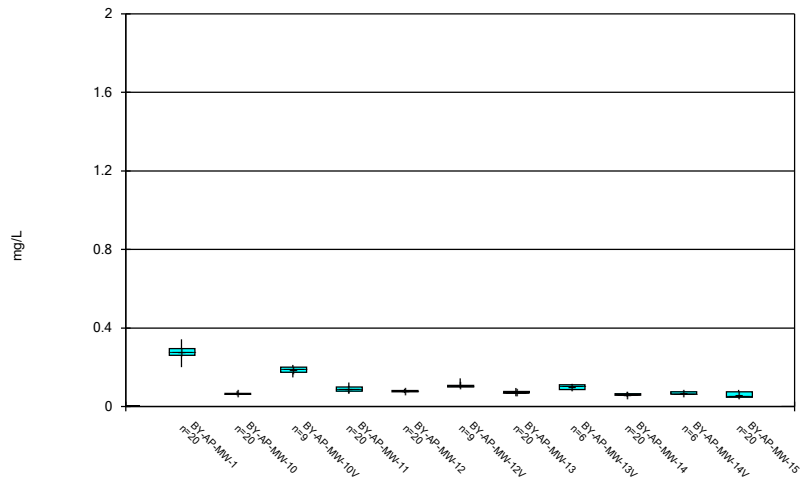
Constituent: Arsenic Analysis Run 6/23/2023 5:20 PM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



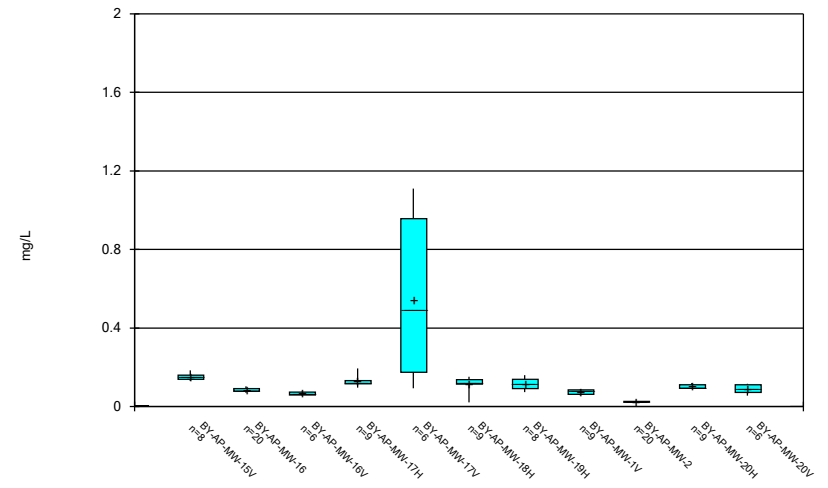
Constituent: Arsenic Analysis Run 6/23/2023 5:20 PM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



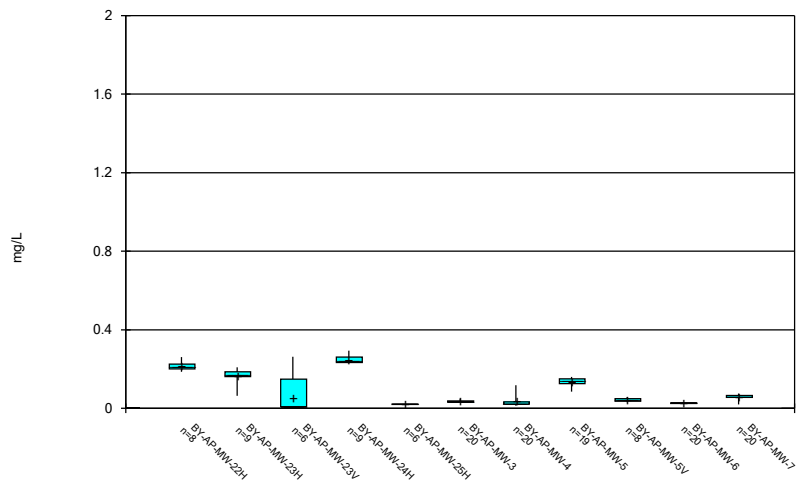
Constituent: Barium Analysis Run 6/23/2023 5:20 PM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



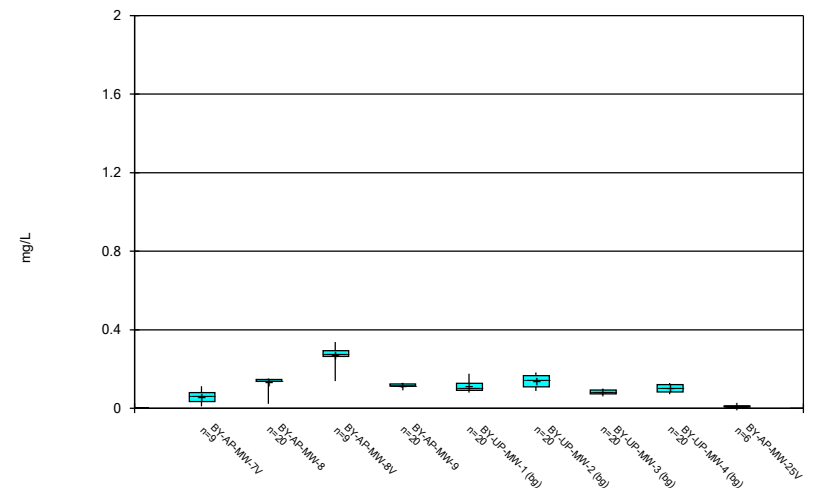
Constituent: Barium Analysis Run 6/23/2023 5:20 PM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



Constituent: Barium Analysis Run 6/23/2023 5:20 PM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

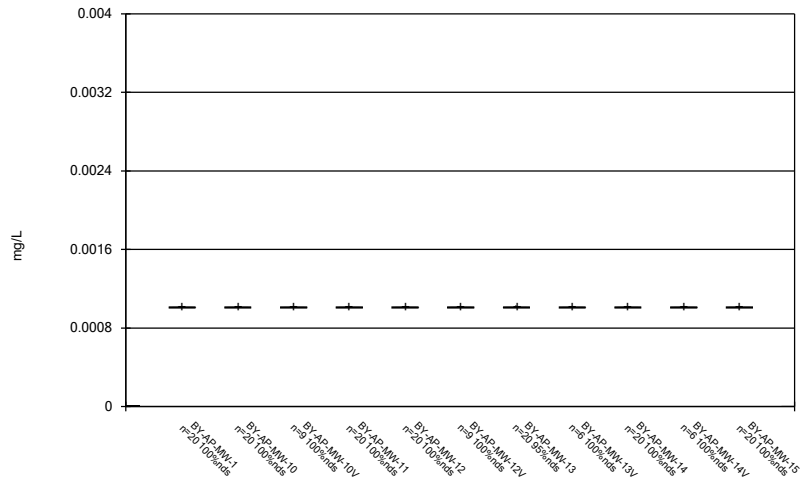
Box & Whiskers Plot



Constituent: Barium Analysis Run 6/23/2023 5:20 PM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

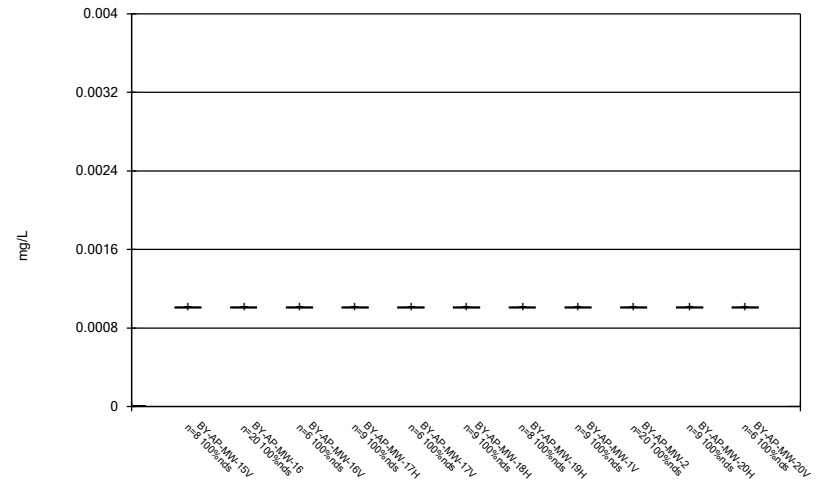


### Box & Whiskers Plot



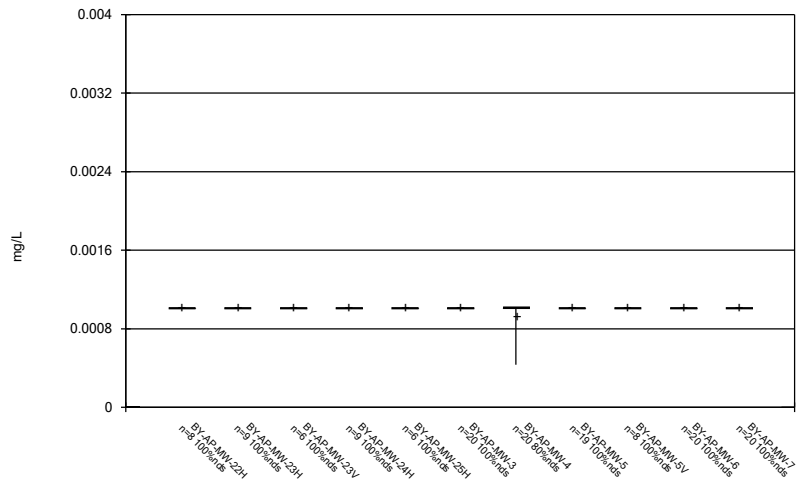
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Box & Whiskers Plot



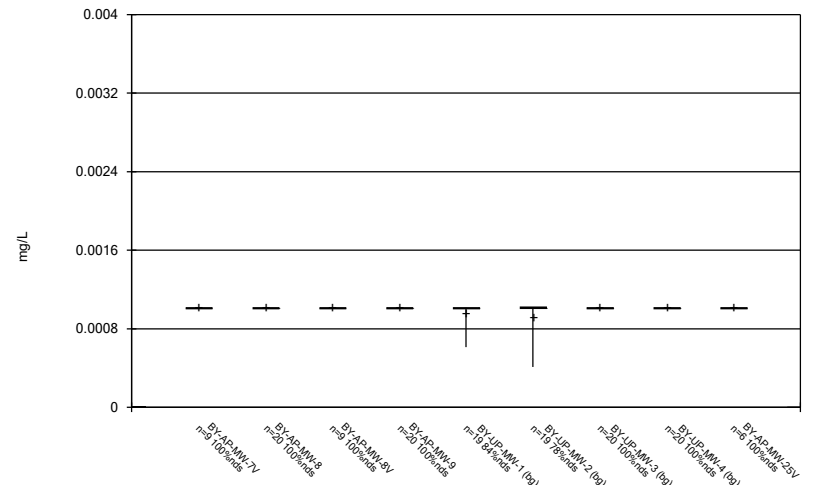
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### Box & Whiskers Plot



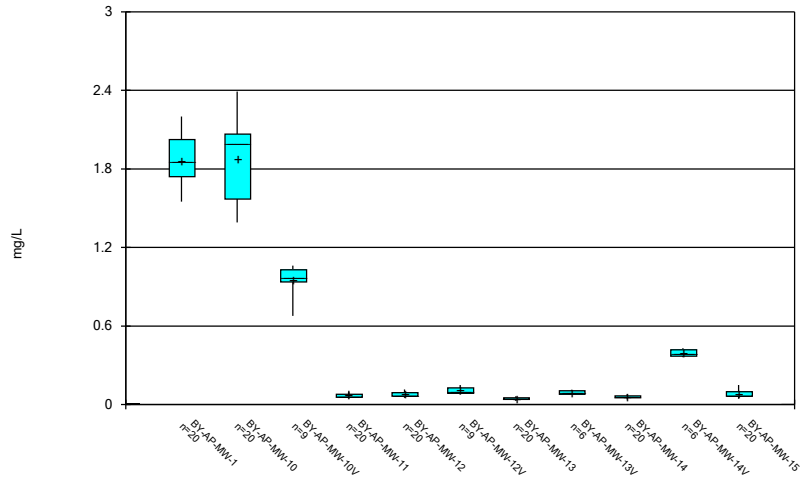
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### Box & Whiskers Plot



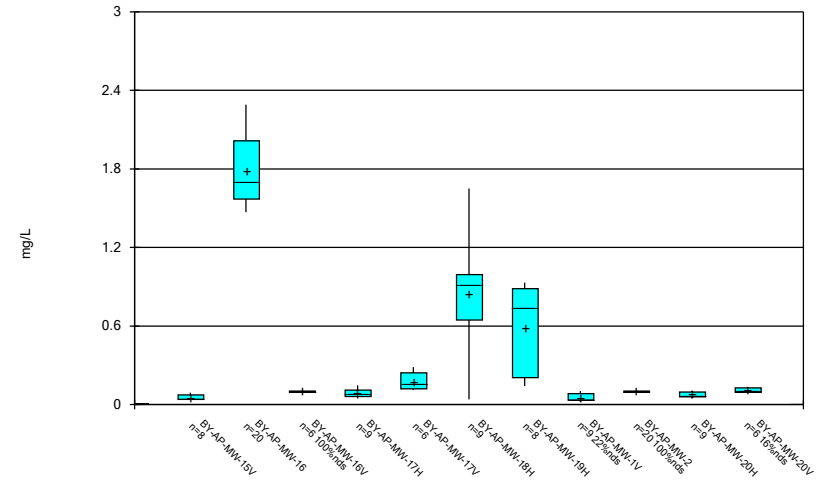
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### Box & Whiskers Plot



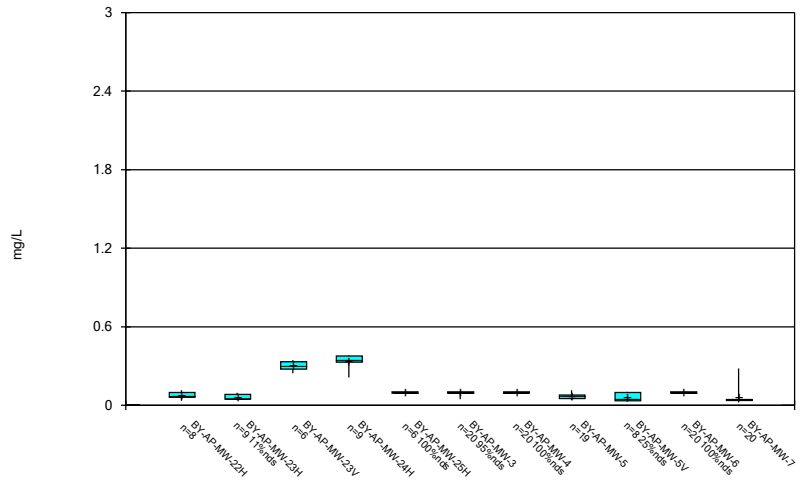
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### Box & Whiskers Plot



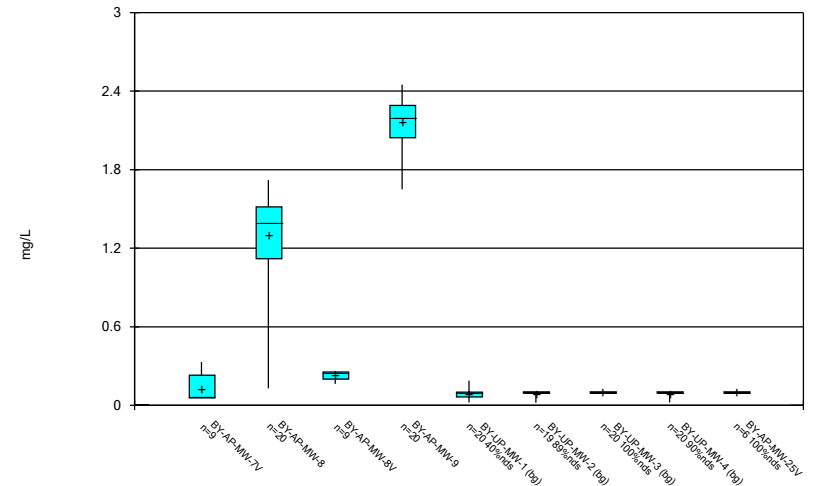
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### Box & Whiskers Plot



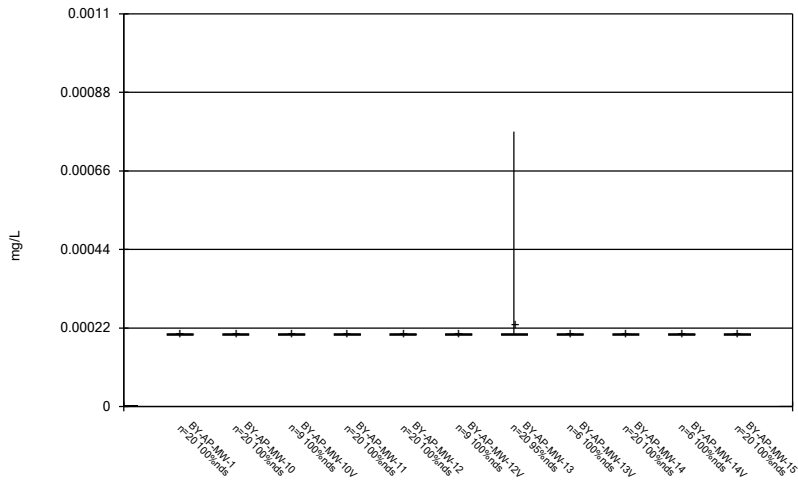
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### Box & Whiskers Plot



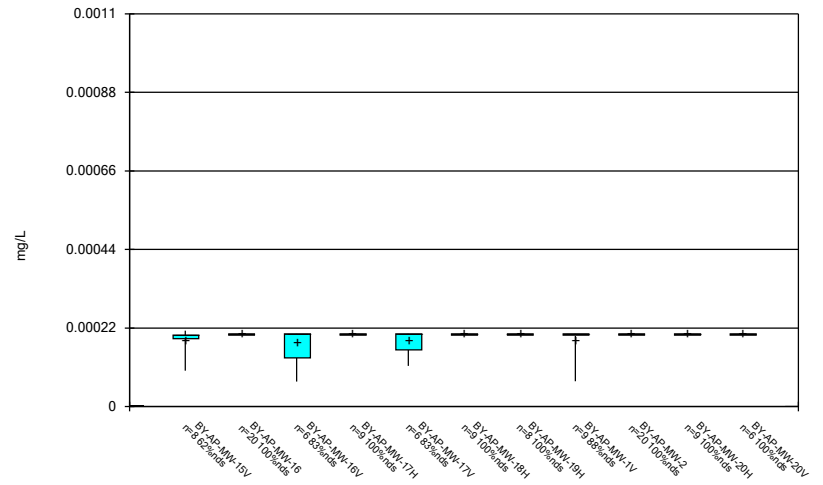
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Box & Whiskers Plot



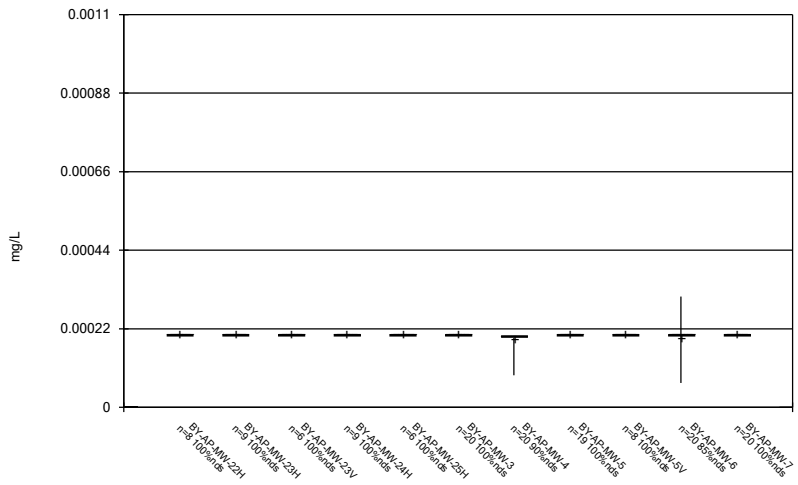
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Box & Whiskers Plot



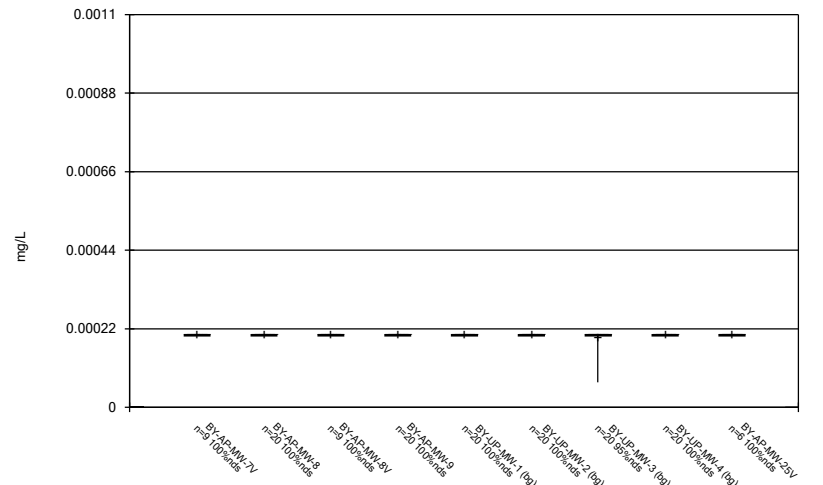
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Box & Whiskers Plot



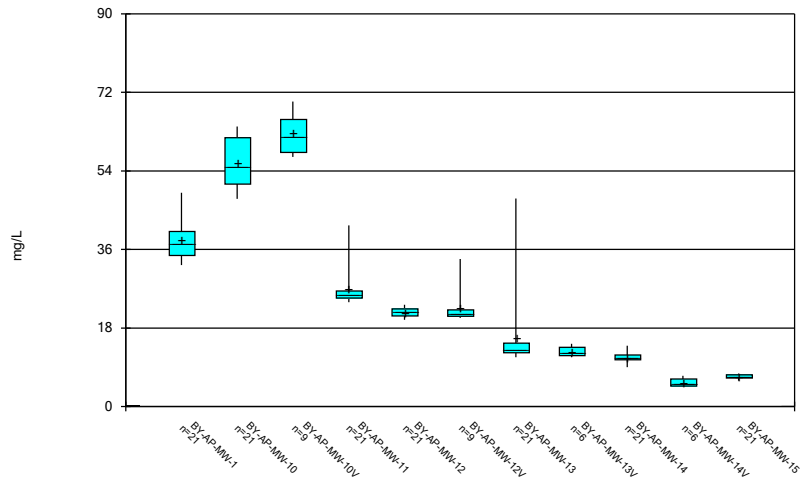
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Box & Whiskers Plot



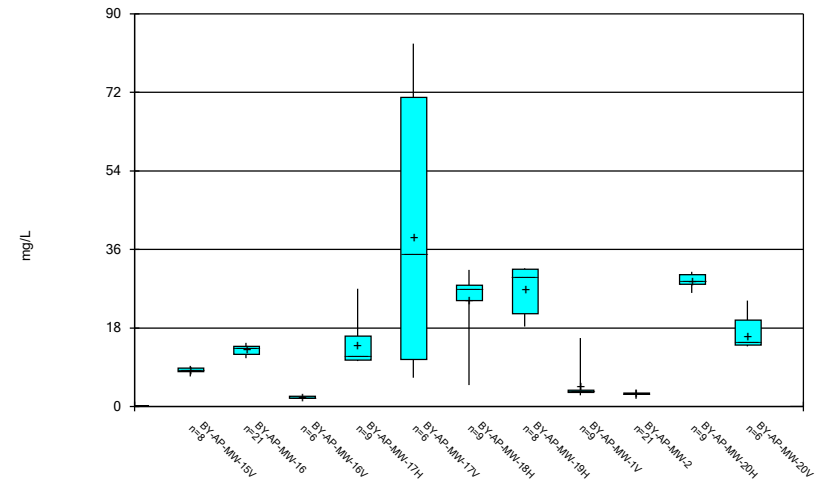
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Box & Whiskers Plot



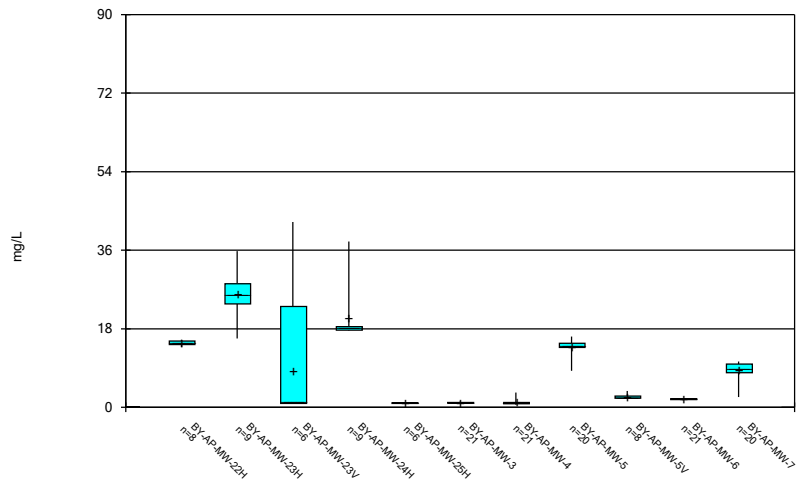
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Box & Whiskers Plot



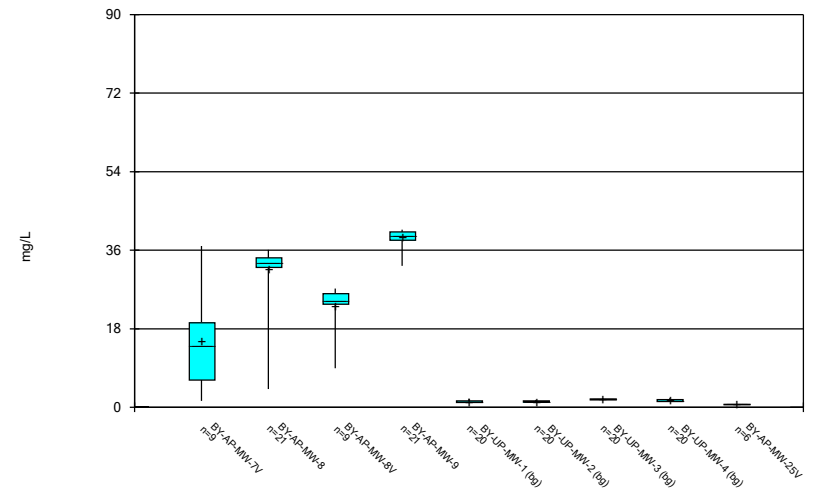
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Box & Whiskers Plot



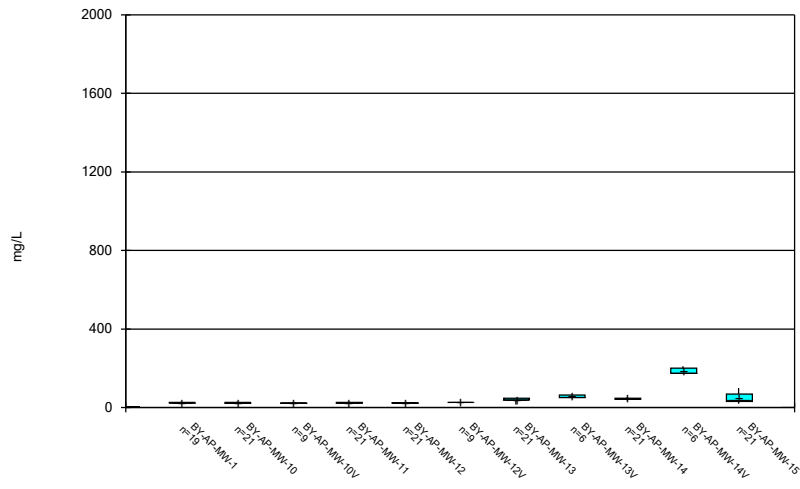
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Box & Whiskers Plot



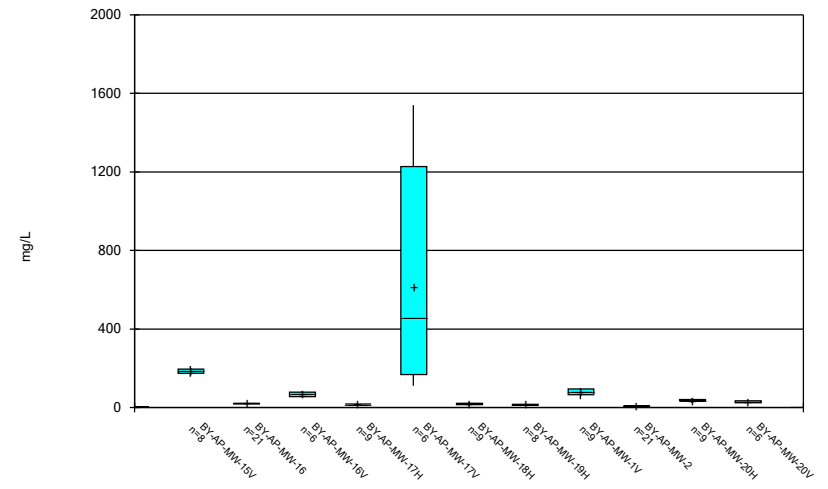
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### Box & Whiskers Plot



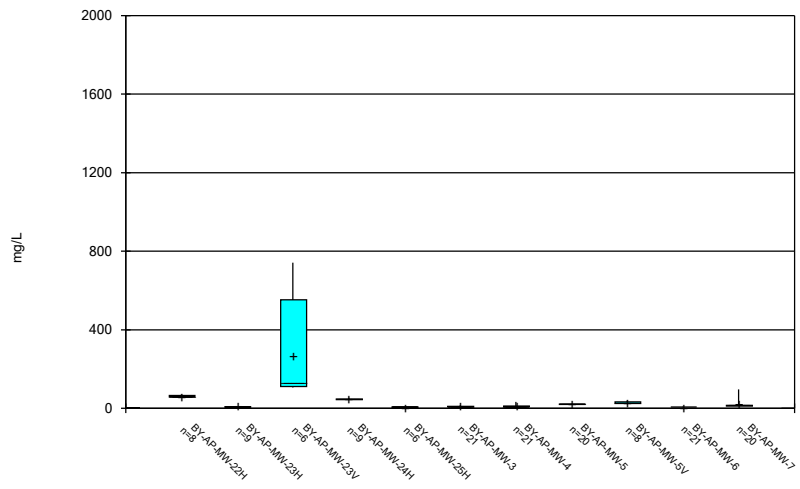
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### Box & Whiskers Plot



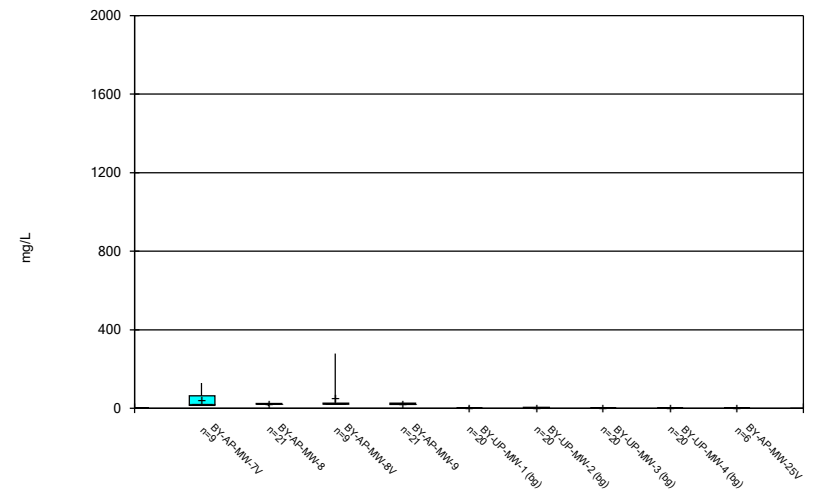
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Box & Whiskers Plot



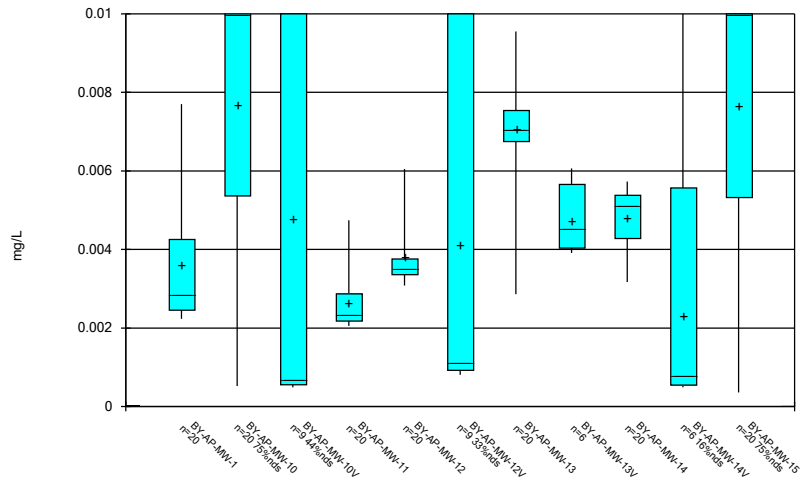
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### Box & Whiskers Plot



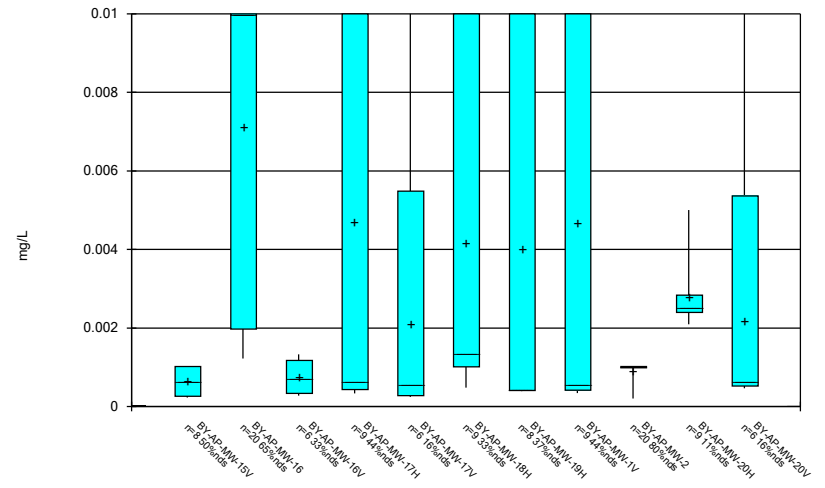
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Box & Whiskers Plot



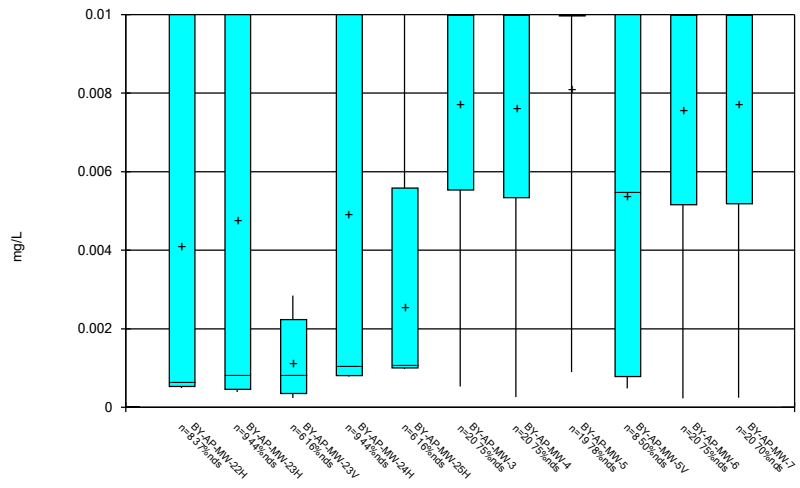
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Box & Whiskers Plot



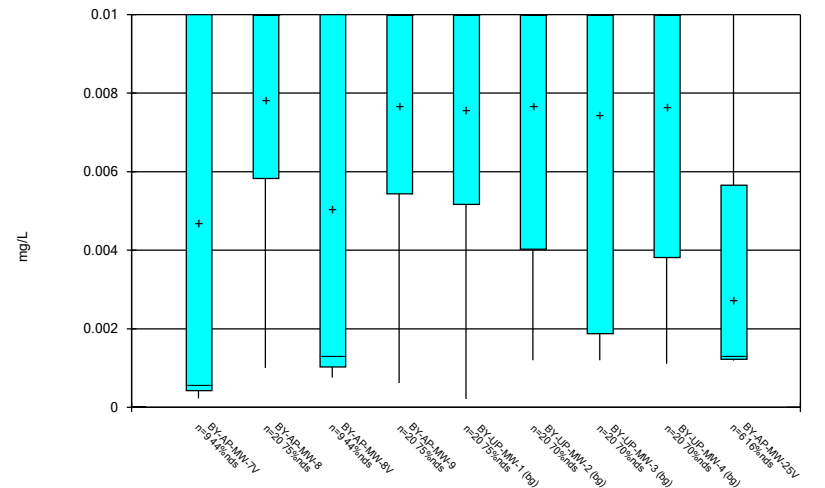
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Box & Whiskers Plot



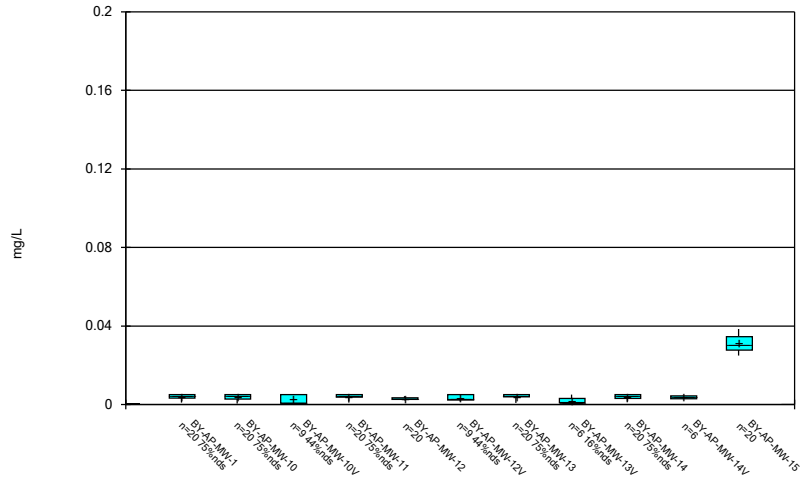
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Box & Whiskers Plot



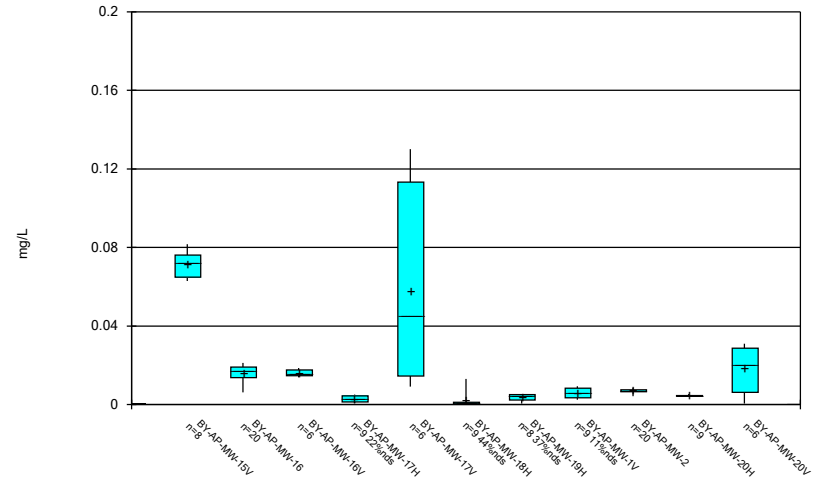
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Box & Whiskers Plot



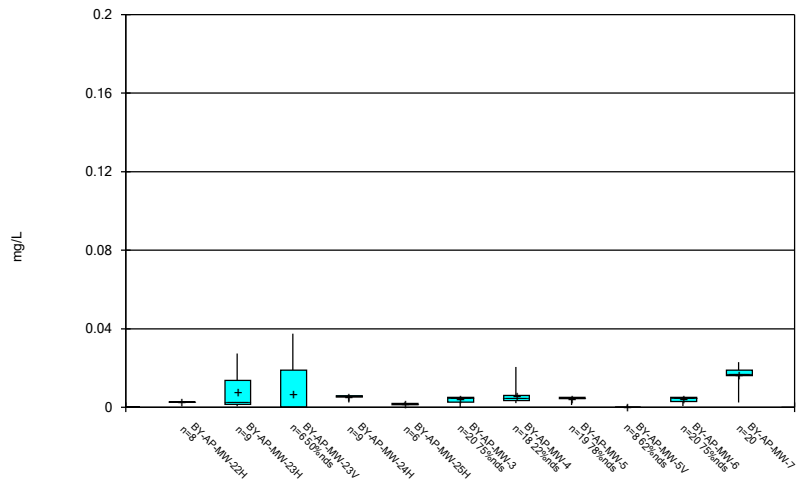
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Box & Whiskers Plot



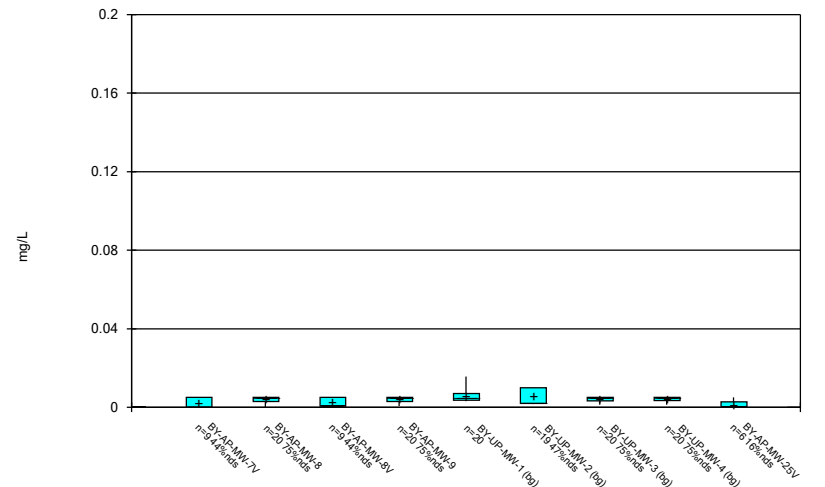
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Box & Whiskers Plot



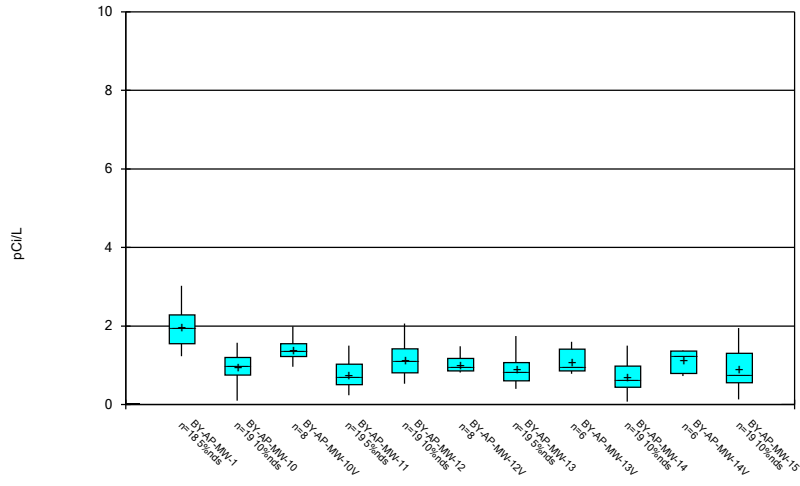
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Box & Whiskers Plot



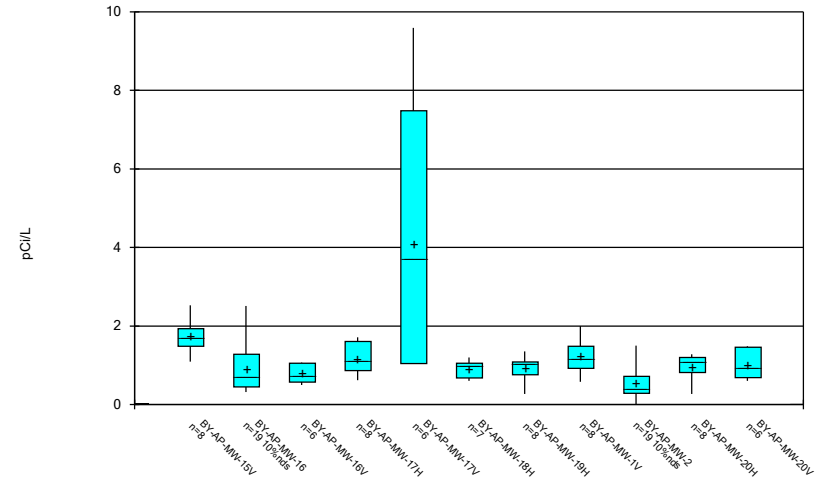
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Box & Whiskers Plot



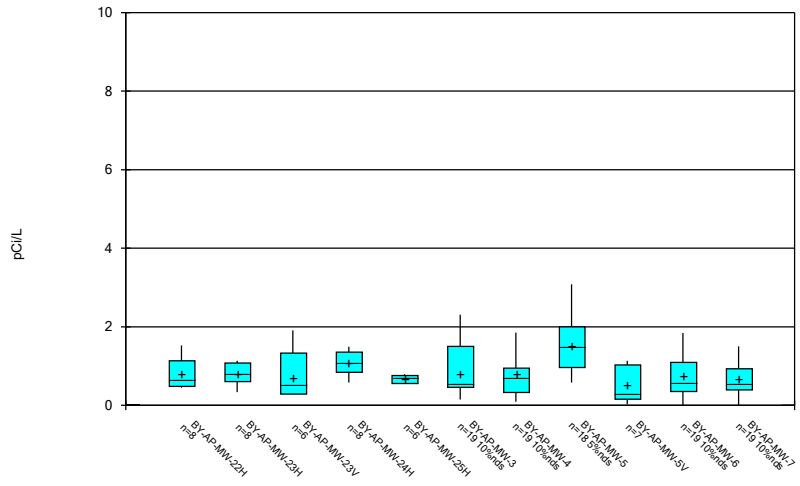
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Box & Whiskers Plot



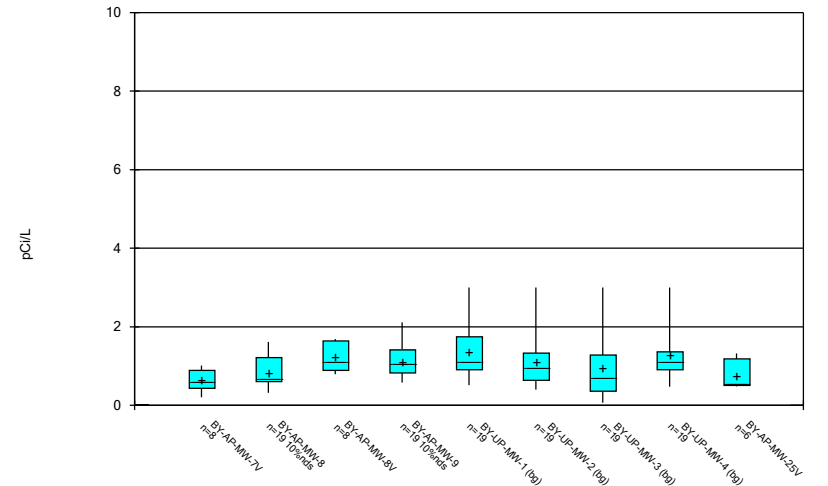
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 6/23/2023 5:20 PM View: Descriptive  
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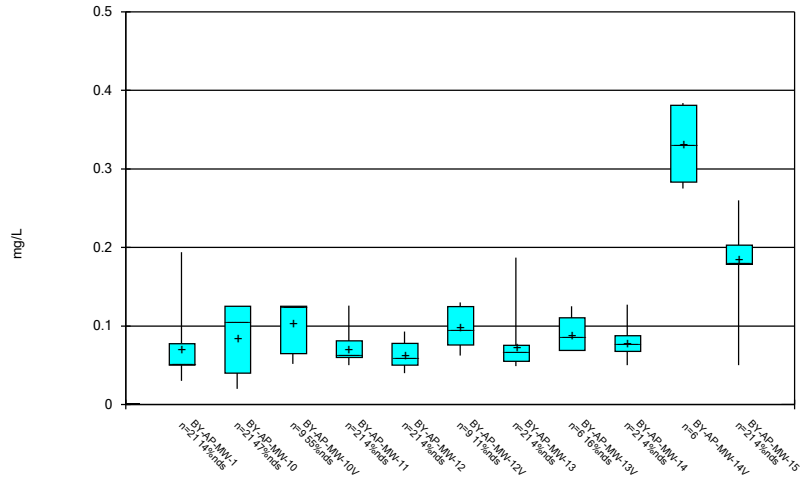
Box & Whiskers Plot



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Plant Barry Client: Southern Company Data: Barry Ash Pond

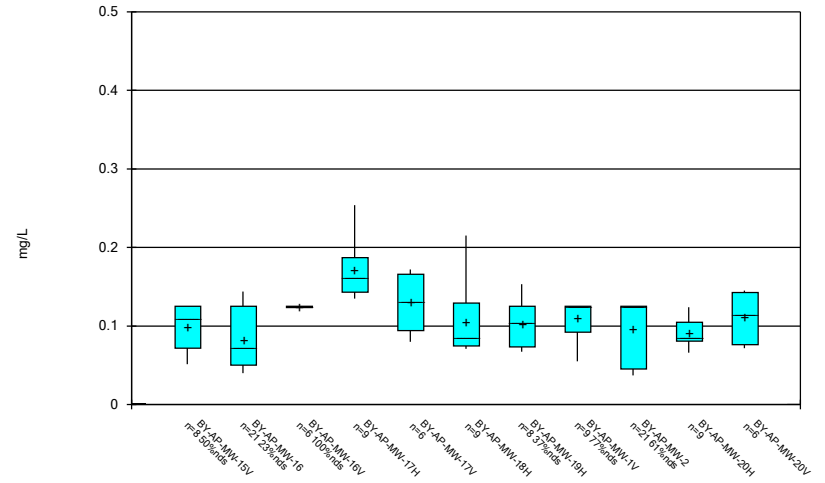


Box & Whiskers Plot



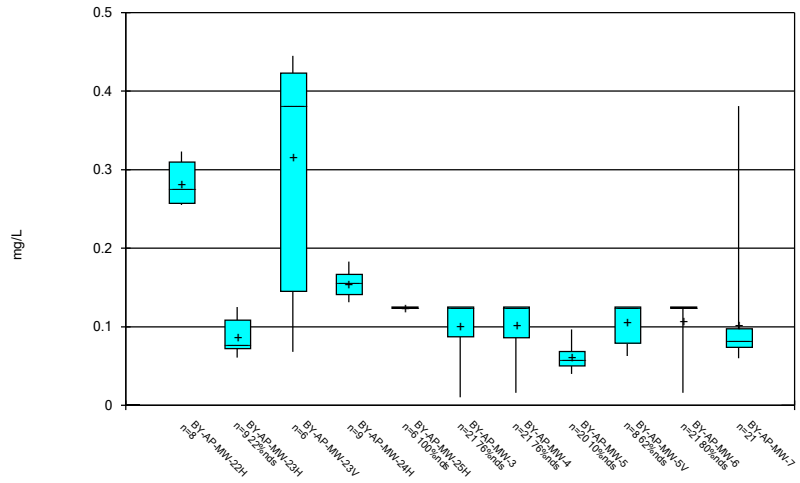
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Box & Whiskers Plot



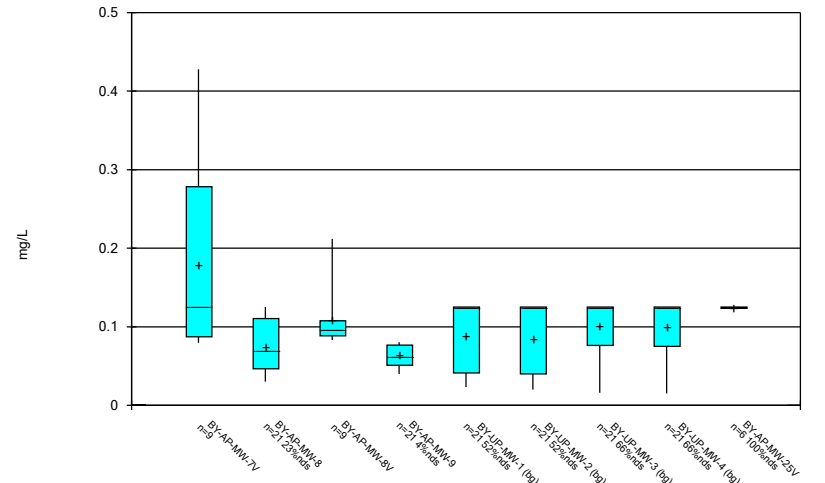
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Box & Whiskers Plot



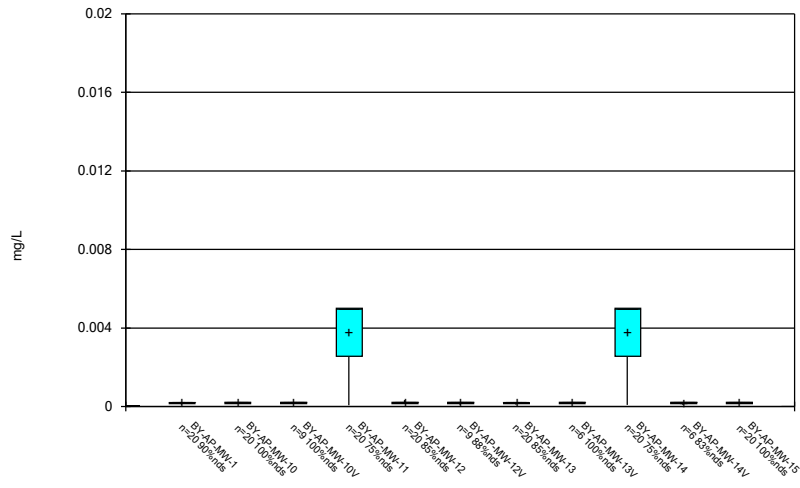
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Box & Whiskers Plot



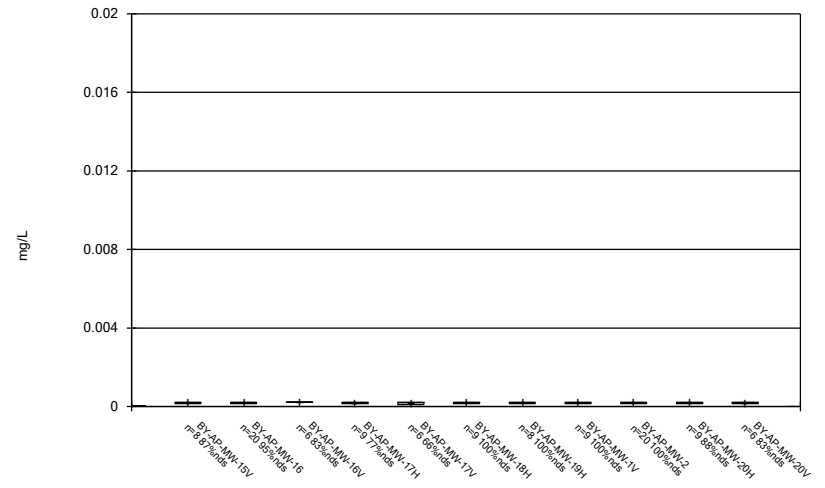
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### Box & Whiskers Plot



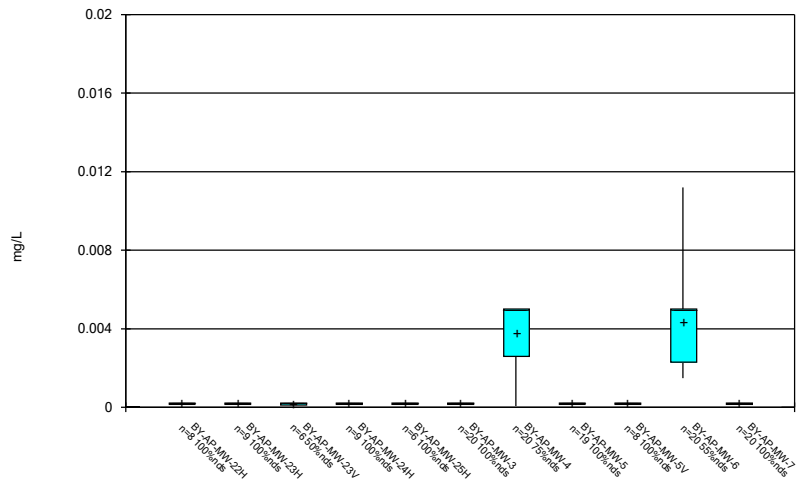
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### Box & Whiskers Plot



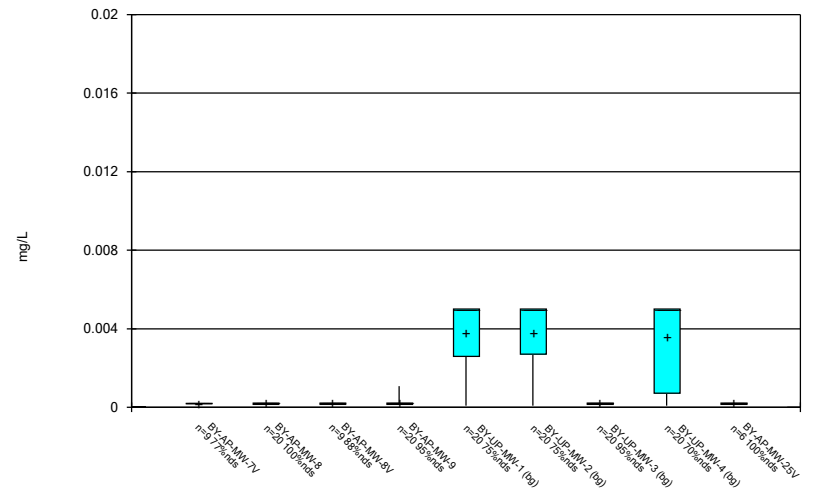
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### Box & Whiskers Plot



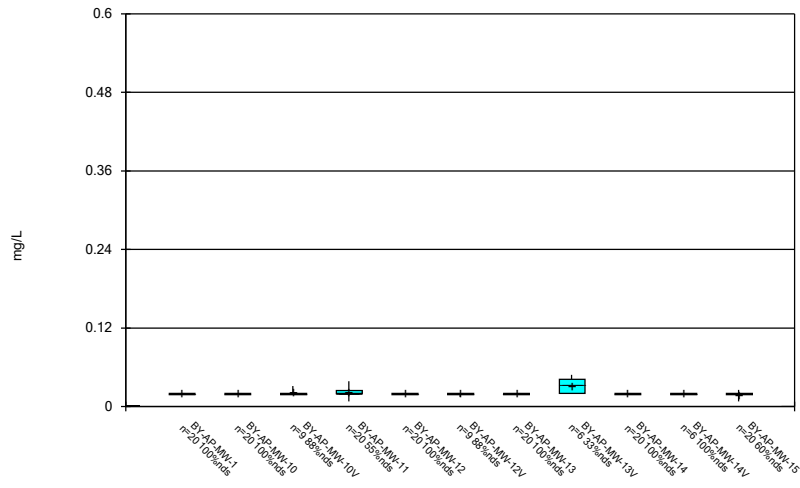
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### Box & Whiskers Plot



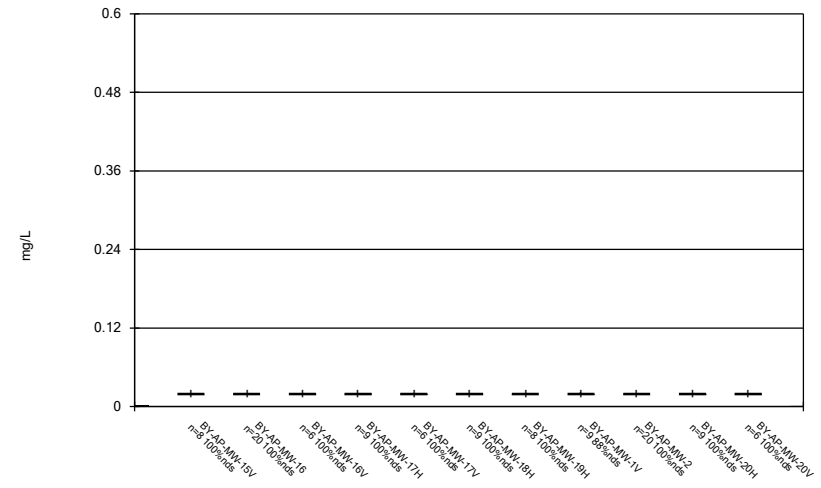
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### Box & Whiskers Plot



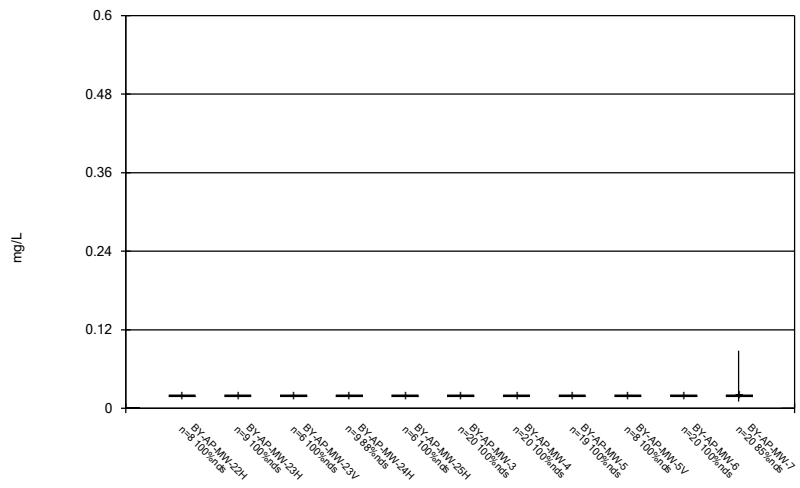
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### Box & Whiskers Plot



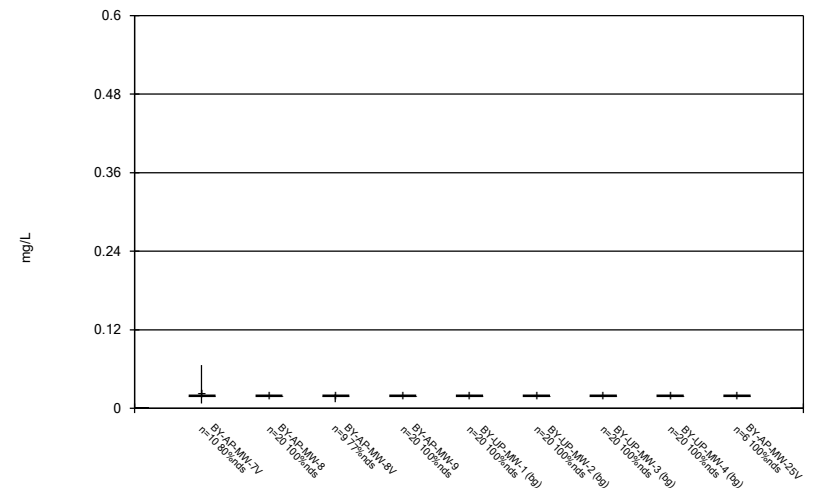
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Box & Whiskers Plot



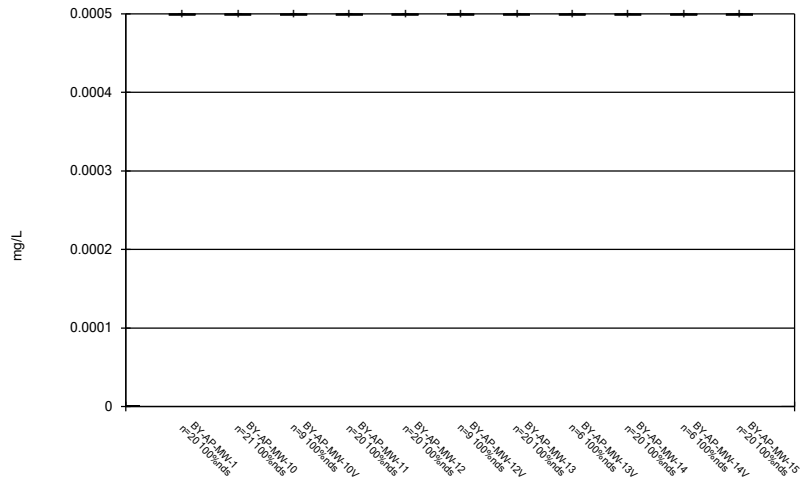
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### Box & Whiskers Plot



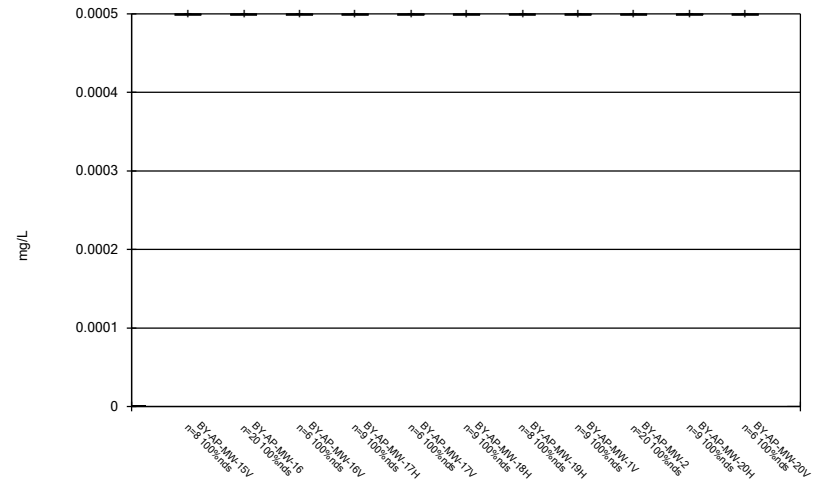
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### Box & Whiskers Plot



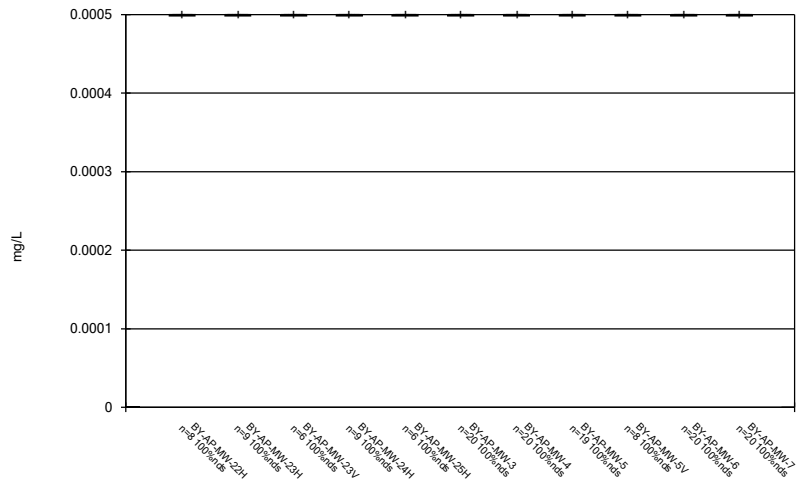
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Box & Whiskers Plot



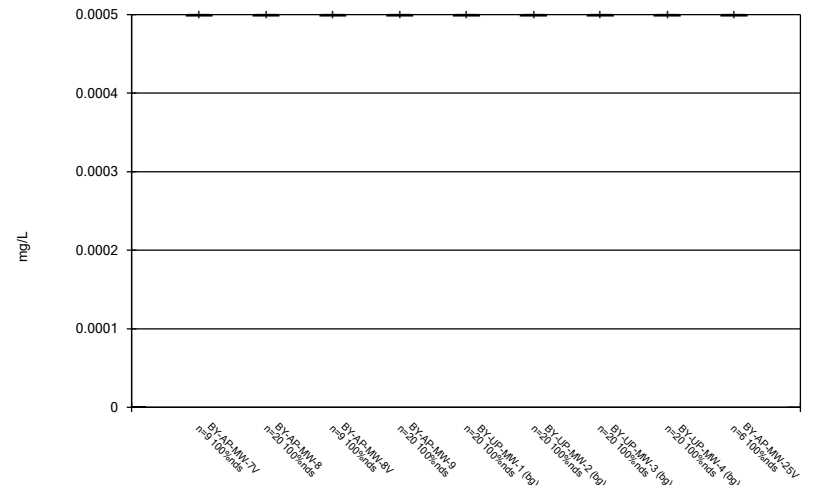
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### Box & Whiskers Plot



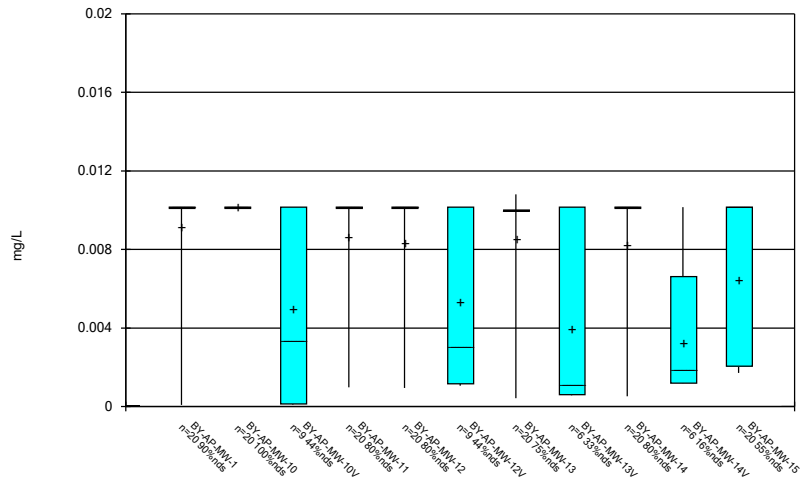
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Box & Whiskers Plot



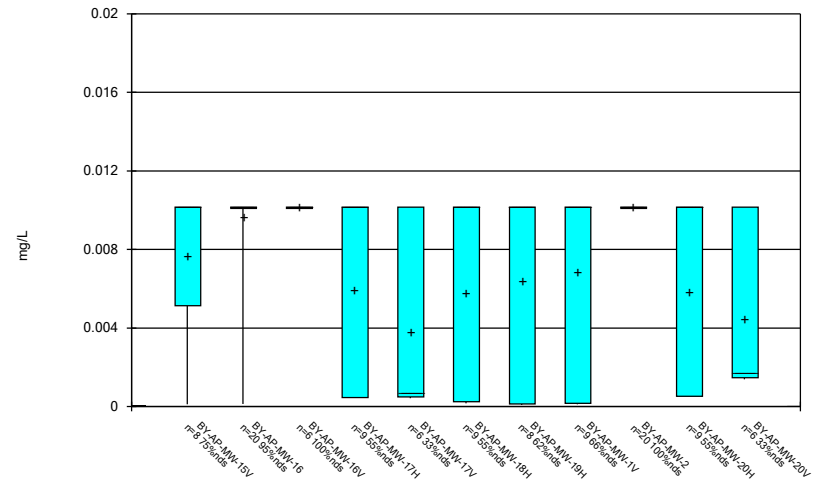
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Box & Whiskers Plot



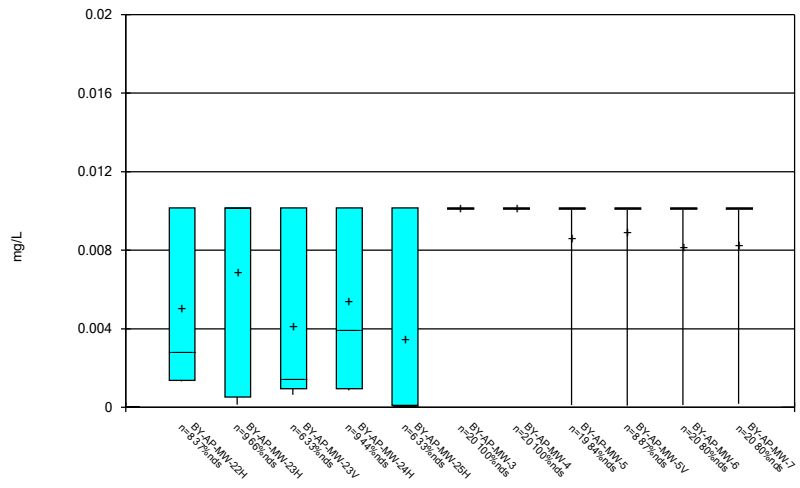
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Box & Whiskers Plot



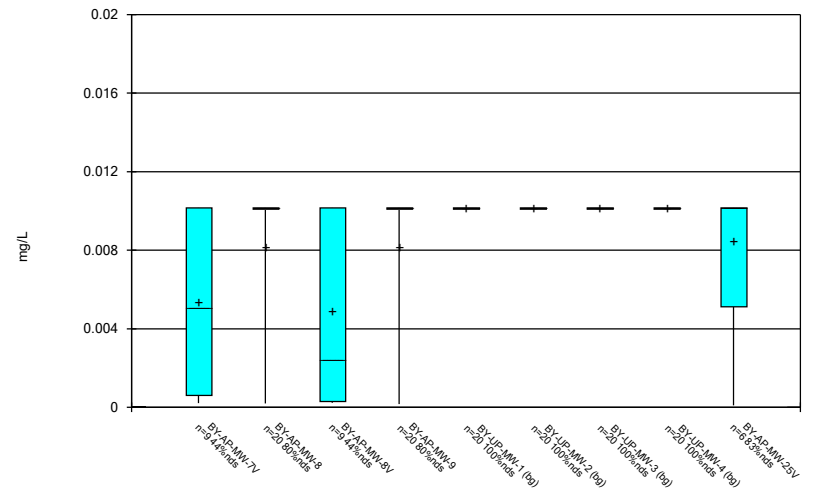
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Box & Whiskers Plot



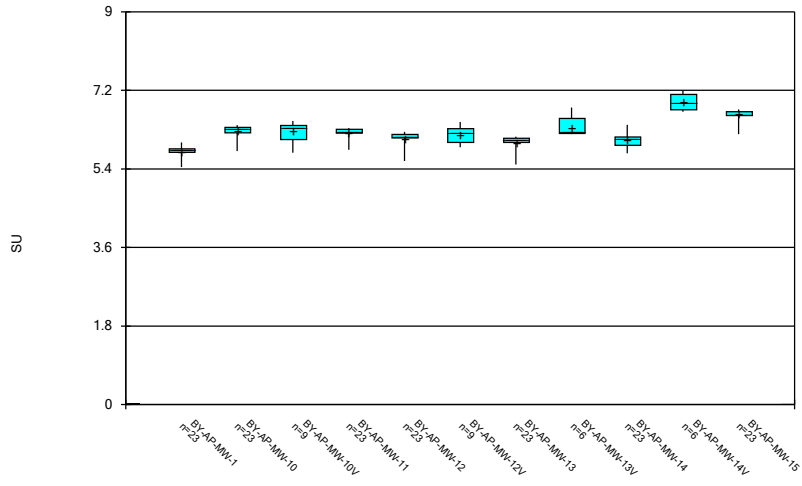
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Box & Whiskers Plot



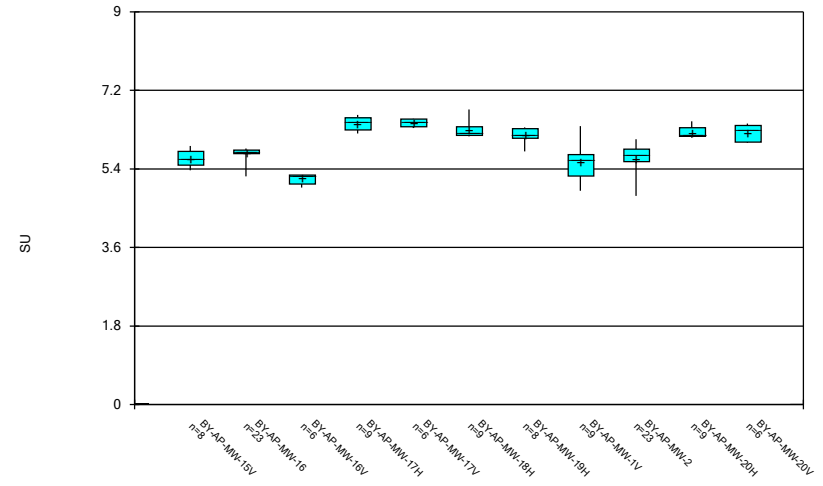
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



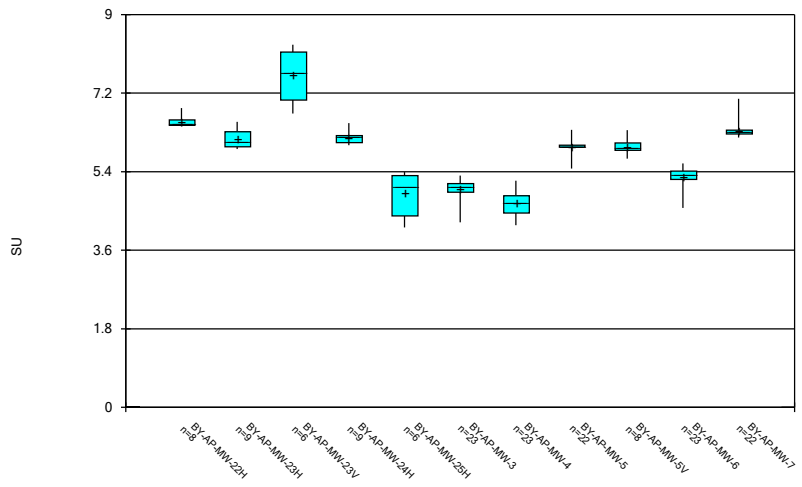
Constituent: pH, field Analysis Run 6/23/2023 5:21 PM View: Descriptive  
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Box & Whiskers Plot



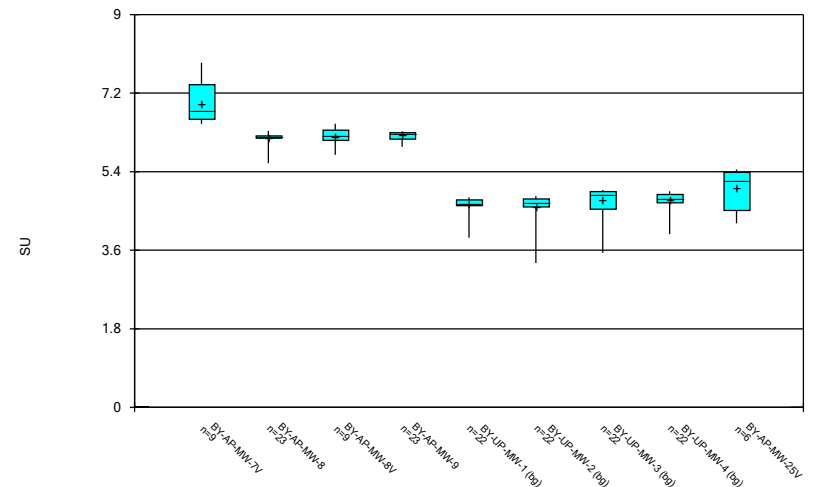
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Box & Whiskers Plot



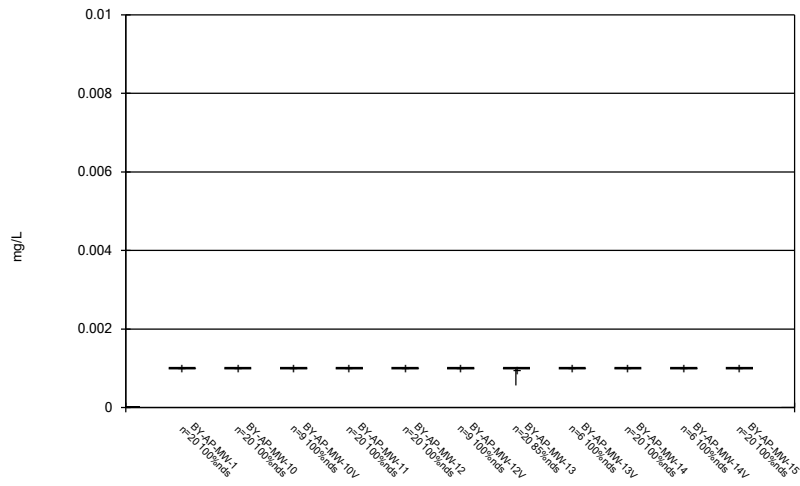
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



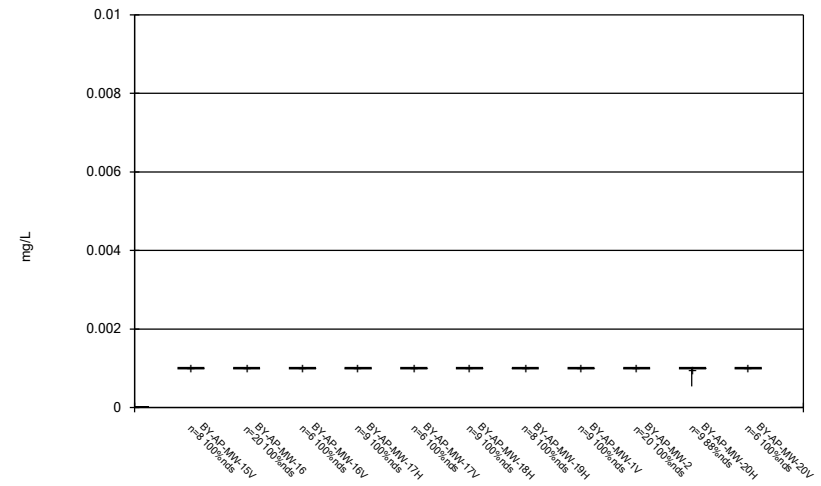
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



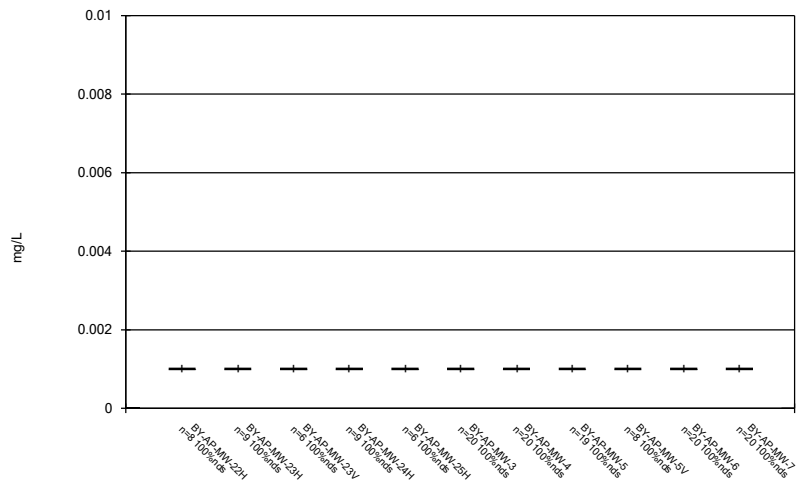
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Box & Whiskers Plot



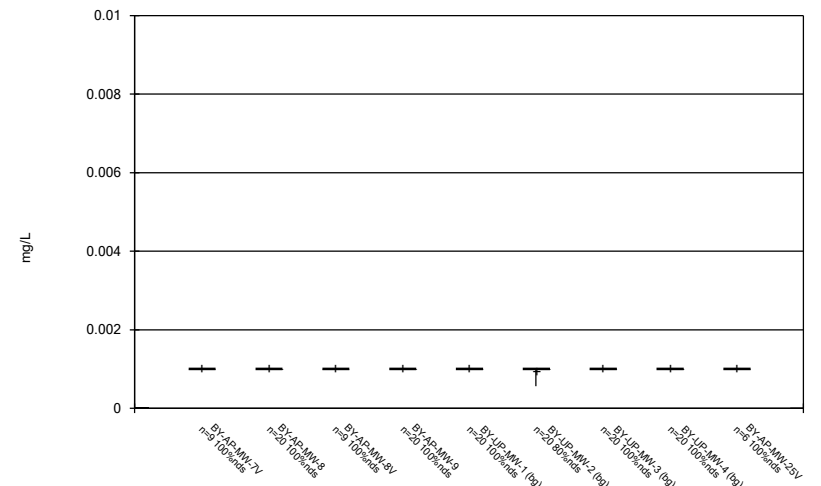
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Box & Whiskers Plot



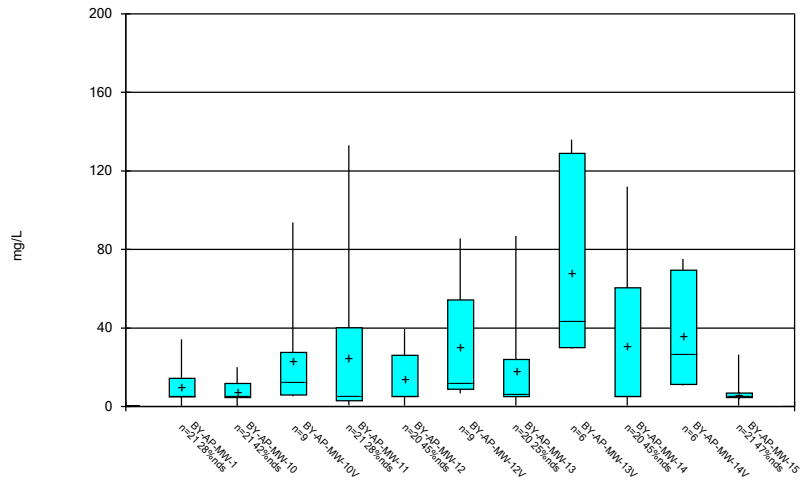
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Box & Whiskers Plot



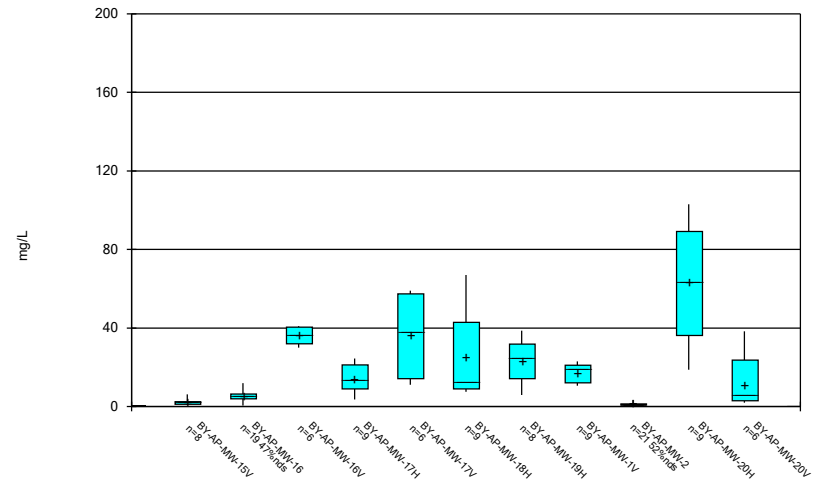
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Box & Whiskers Plot



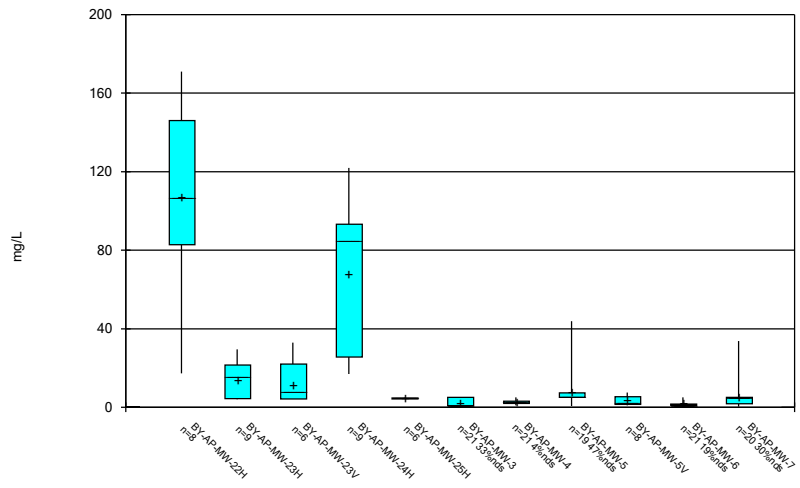
Constituent: Sulfate as SO4 Analysis Run 6/23/2023 5:21 PM View: Descriptive  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Box & Whiskers Plot



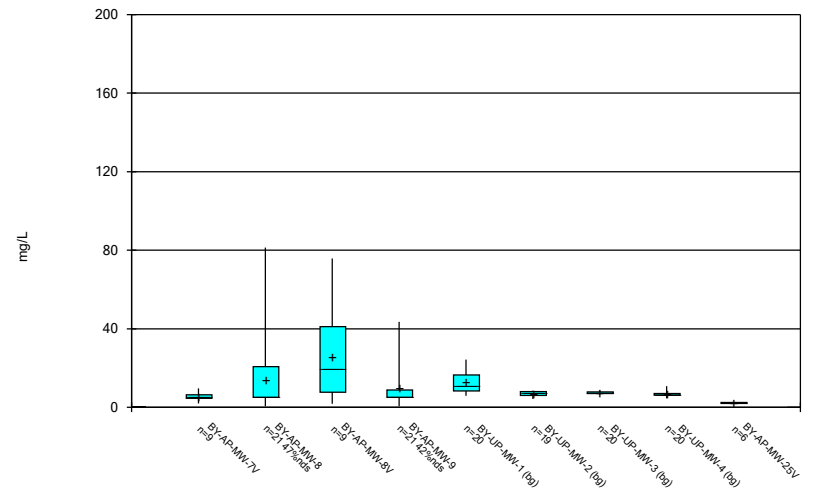
Constituent: Sulfate as SO4 Analysis Run 6/23/2023 5:21 PM View: Descriptive  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Box & Whiskers Plot



Constituent: Sulfate as SO4 Analysis Run 6/23/2023 5:21 PM View: Descriptive  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

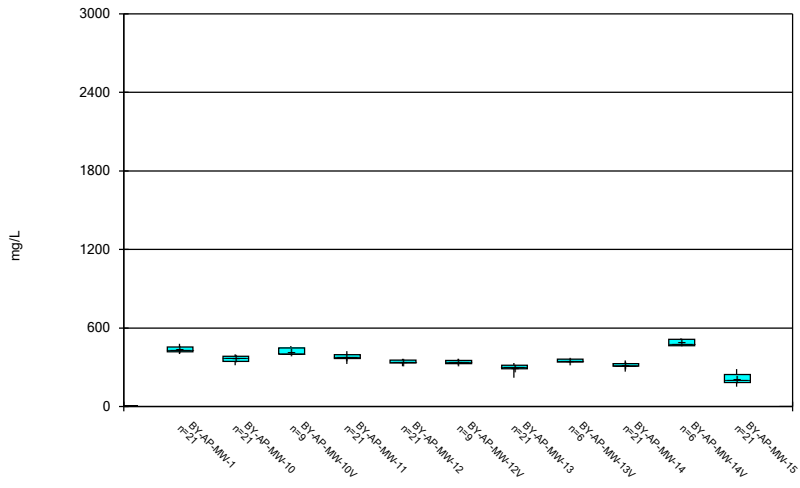
### Box & Whiskers Plot



Constituent: Sulfate as SO4 Analysis Run 6/23/2023 5:21 PM View: Descriptive  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

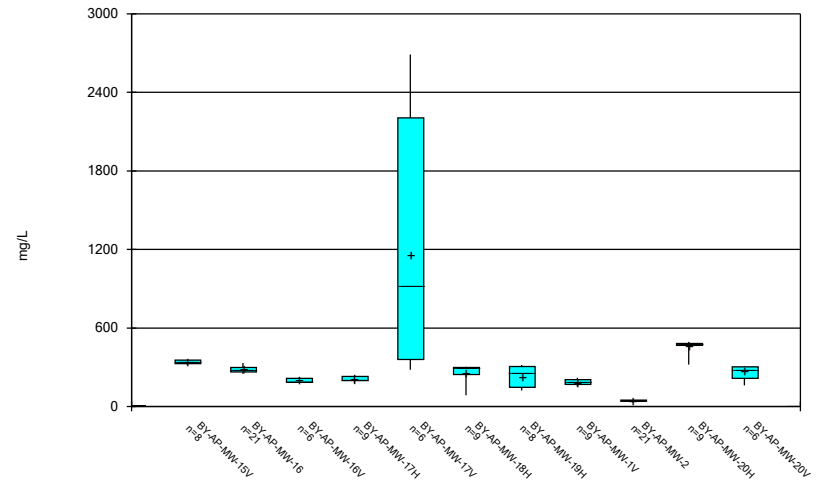


Box & Whiskers Plot



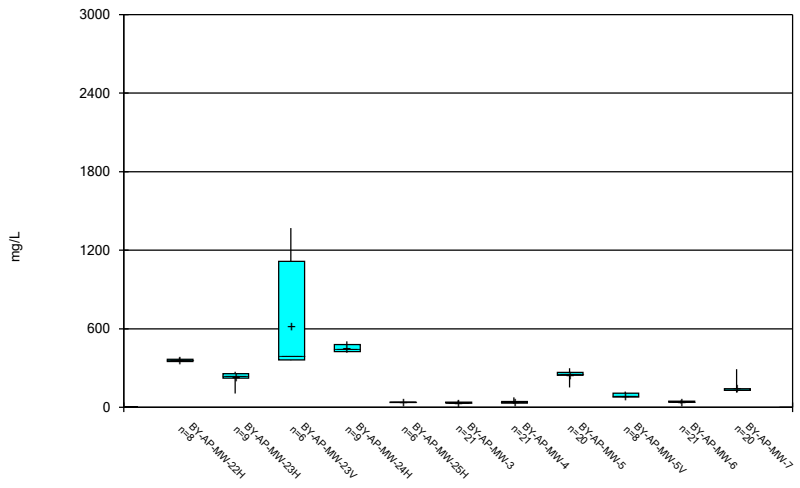
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



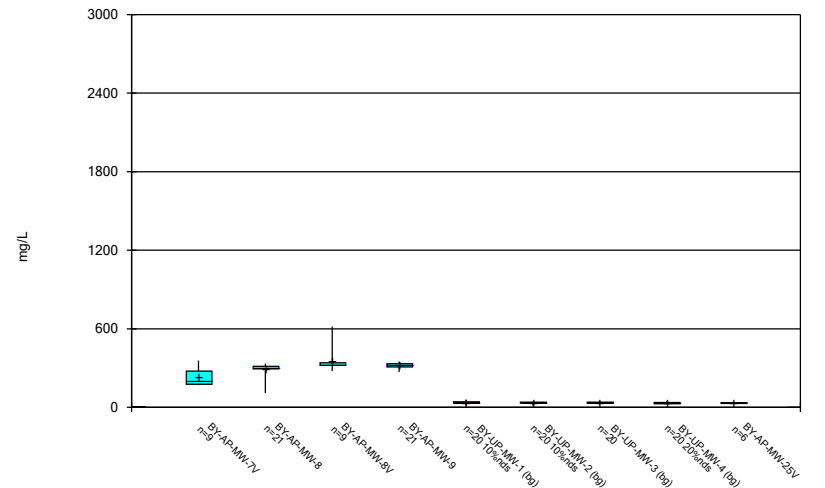
Constituent: TDS Analysis Run 6/23/2023 5:21 PM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



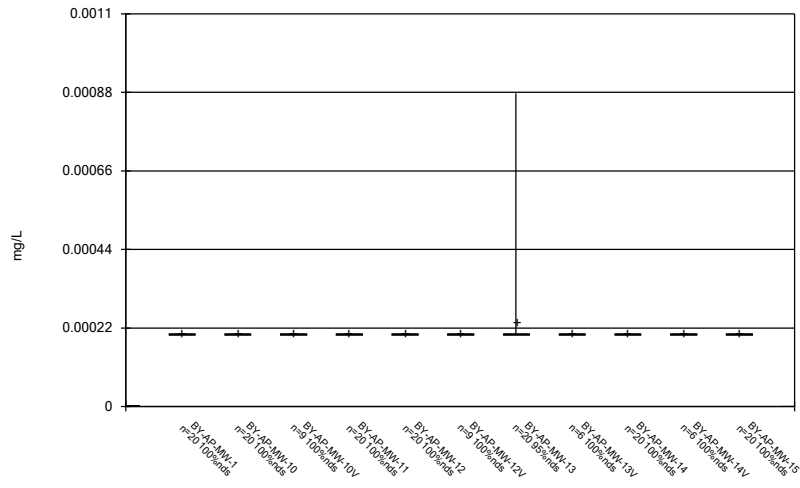
Constituent: TDS Analysis Run 6/23/2023 5:21 PM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



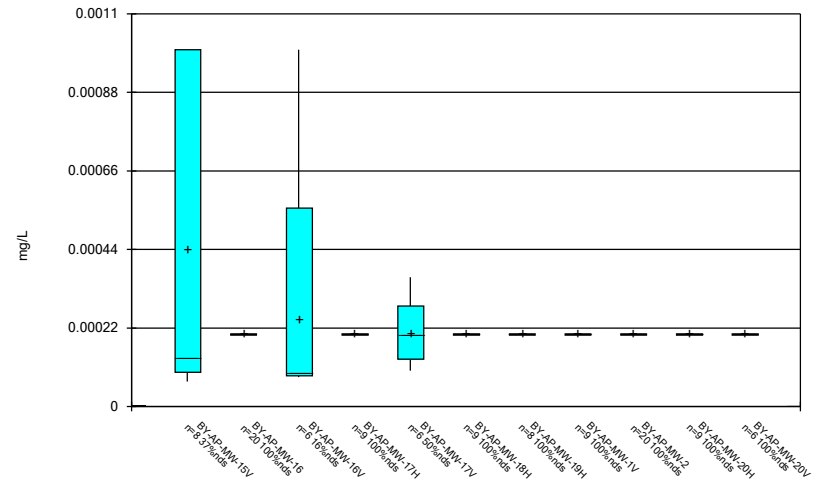
Constituent: TDS Analysis Run 6/23/2023 5:21 PM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Box & Whiskers Plot



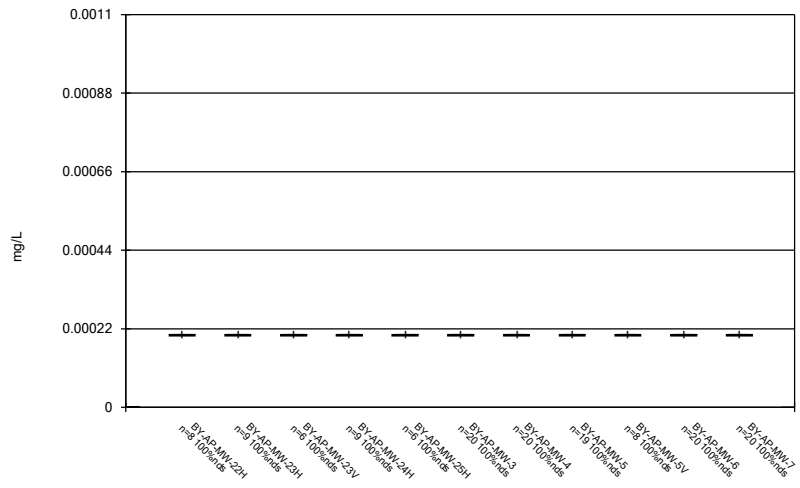
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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Box & Whiskers Plot



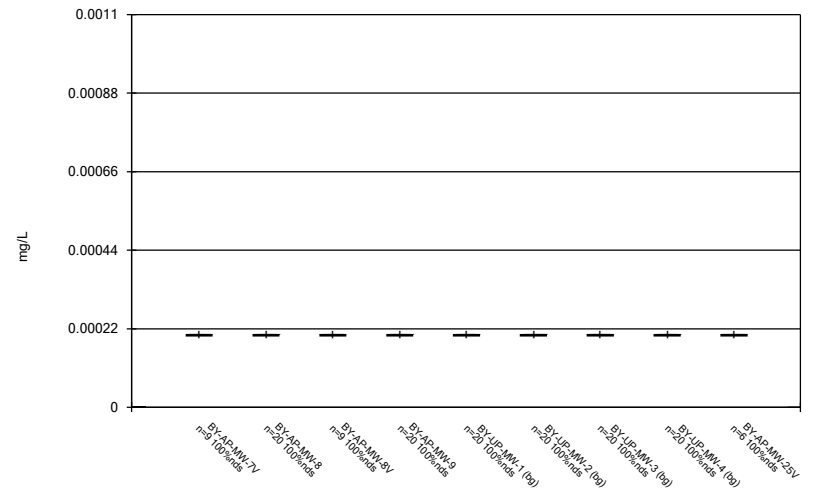
Constituent: Thallium Analysis Run 6/23/2023 5:21 PM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Box & Whiskers Plot



Constituent: Thallium Analysis Run 6/23/2023 5:21 PM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Box & Whiskers Plot



Constituent: Thallium Analysis Run 6/23/2023 5:21 PM View: Descriptive  
Plant Barry Client: Southern Company Data: Barry Ash Pond

FIGURE C.

# Outlier Summary

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 6/22/2023, 11:35 AM

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|            | BY-AP-MW-1 Chloride, Total (mg/L) | BY-AP-MW-4 Cobalt (mg/L) | BY-AP-MW-12 Sulfate as SO4 (mg/L) | BY-AP-MW-13 Sulfate as SO4 (mg/L) | BY-AP-MW-14 Sulfate as SO4 (mg/L) | BY-AP-MW-16 Sulfate as SO4 (mg/L) | BY-AP-MW-5 Sulfate as SO4 (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)                           |                          |                                   |                                   |                                   |                                   |                                  |
| 5/29/2019  |                                   |                          | 49.5 (o)                          | 67.6 (o)                          |                                   |                                   |                                  |
| 3/31/2020  |                                   |                          |                                   |                                   | 17.5 (o)                          | 23.7 (o)                          |                                  |
| 9/2/2020   |                                   |                          |                                   |                                   | 13.3 (o)                          |                                   |                                  |

FIGURE D.

# Intrawell Prediction Limits - Significant Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 6/6/2023, 11:55 PM

| Constituent           | Well        | Upper Lim. | Lower Lim. | Date     | Observ. | Sig. | Bg N | Bg Wells | Bg Mean | Std. Dev. | %NDs  | ND Adj.      | Transform | Alpha     | Method                      |
|-----------------------|-------------|------------|------------|----------|---------|------|------|----------|---------|-----------|-------|--------------|-----------|-----------|-----------------------------|
| pH, field (SU)        | BY-AP-MW-10 | 6.463      | 6.143      | 4/3/2023 | 6.05    | Yes  | 19   | n/a      | 6.303   | 0.06515   | 0     | None         | No        | 0.0002351 | Param Intra 1 of 2          |
| pH, field (SU)        | BY-AP-MW-2  | 6.2        | 5.161      | 4/3/2023 | 4.88    | Yes  | 19   | n/a      | 1094    | 156.3     | 0     | None         | x^4       | 0.0002351 | Param Intra 1 of 2          |
| pH, field (SU)        | BY-AP-MW-3  | 5.22       | 4.24       | 4/4/2023 | 5.31    | Yes  | 19   | n/a      | n/a     | n/a       | 0     | n/a          | n/a       | 0.009664  | NP Intra (normality) 1 of 2 |
| pH, field (SU)        | BY-AP-MW-7  | 6.432      | 6.166      | 4/3/2023 | 6.53    | Yes  | 18   | n/a      | 6.299   | 0.05346   | 0     | None         | No        | 0.0002351 | Param Intra 1 of 2          |
| pH, field (SU)        | BY-AP-MW-8  | 6.26       | 5.89       | 4/3/2023 | 6.34    | Yes  | 19   | n/a      | n/a     | n/a       | 0     | n/a          | n/a       | 0.009664  | NP Intra (normality) 1 of 2 |
| Sulfate as SO4 (mg/L) | BY-AP-MW-1  | 6.348      | n/a        | 4/3/2023 | 34.2    | Yes  | 13   | n/a      | 52.17   | 74.33     | 46.15 | Kaplan-Meier | x^3       | 0.0004702 | Param Intra 1 of 2          |
| Sulfate as SO4 (mg/L) | BY-AP-MW-10 | 5          | n/a        | 4/3/2023 | 15      | Yes  | 13   | n/a      | n/a     | n/a       | 69.23 | n/a          | n/a       | 0.009692  | NP Intra (NDs) 1 of 2       |
| Sulfate as SO4 (mg/L) | BY-AP-MW-11 | 19.37      | n/a        | 4/4/2023 | 84.3    | Yes  | 13   | n/a      | 1.308   | 0.5028    | 46.15 | Kaplan-Meier | x^(1/3)   | 0.0004702 | Param Intra 1 of 2          |
| Sulfate as SO4 (mg/L) | BY-AP-MW-12 | 7.04       | n/a        | 4/4/2023 | 39.6    | Yes  | 12   | n/a      | n/a     | n/a       | 75    | n/a          | n/a       | 0.01077   | NP Intra (NDs) 1 of 2       |
| Sulfate as SO4 (mg/L) | BY-AP-MW-13 | 9.841      | n/a        | 4/4/2023 | 24.6    | Yes  | 12   | n/a      | 3.818   | 2.151     | 41.67 | Kaplan-Meier | No        | 0.0004702 | Param Intra 1 of 2          |
| Sulfate as SO4 (mg/L) | BY-AP-MW-14 | 61.6       | n/a        | 4/5/2023 | 112     | Yes  | 16   | n/a      | n/a     | n/a       | 56.25 | n/a          | n/a       | 0.006456  | NP Intra (NDs) 1 of 2       |
| Sulfate as SO4 (mg/L) | BY-AP-MW-15 | 7.61       | n/a        | 4/3/2023 | 8.28    | Yes  | 17   | n/a      | n/a     | n/a       | 58.82 | n/a          | n/a       | 0.005914  | NP Intra (NDs) 1 of 2       |
| Sulfate as SO4 (mg/L) | BY-AP-MW-16 | 6.72       | n/a        | 4/5/2023 | 9.3     | Yes  | 15   | n/a      | n/a     | n/a       | 60    | n/a          | n/a       | 0.007533  | NP Intra (NDs) 1 of 2       |
| Sulfate as SO4 (mg/L) | BY-AP-MW-5  | 11         | n/a        | 4/4/2023 | 43.9    | Yes  | 15   | n/a      | n/a     | n/a       | 60    | n/a          | n/a       | 0.007533  | NP Intra (NDs) 1 of 2       |
| Sulfate as SO4 (mg/L) | BY-AP-MW-7  | 5          | n/a        | 4/3/2023 | 14.8    | Yes  | 16   | n/a      | n/a     | n/a       | 37.5  | n/a          | n/a       | 0.006456  | NP Intra (normality) 1 of 2 |
| Sulfate as SO4 (mg/L) | BY-AP-MW-8  | 6.01       | n/a        | 4/3/2023 | 32.1    | Yes  | 13   | n/a      | n/a     | n/a       | 76.92 | n/a          | n/a       | 0.009692  | NP Intra (NDs) 1 of 2       |
| Sulfate as SO4 (mg/L) | BY-AP-MW-9  | 5.91       | n/a        | 4/4/2023 | 25.3    | Yes  | 13   | n/a      | n/a     | n/a       | 69.23 | n/a          | n/a       | 0.009692  | NP Intra (NDs) 1 of 2       |

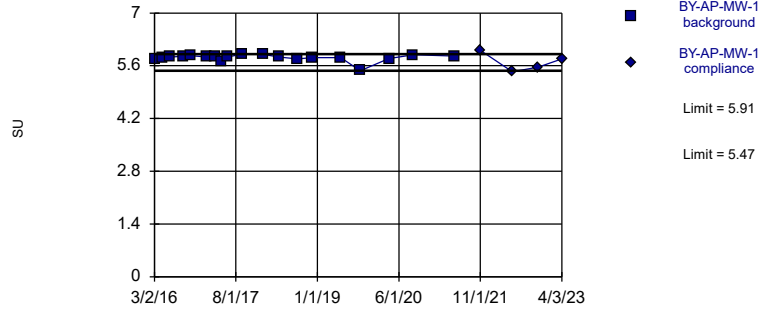
# Intrawell Prediction Limits - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 6/6/2023, 11:55 PM

| Constituent           | Well               | Upper Lim.   | Lower Lim.   | Date            | Observ.     | Sig.       | Bg N      | Bg Wells   | Bg Mean      | Std. Dev.      | %NDs     | ND Adj.      | Transform  | Alpha            | Method                             |
|-----------------------|--------------------|--------------|--------------|-----------------|-------------|------------|-----------|------------|--------------|----------------|----------|--------------|------------|------------------|------------------------------------|
| pH, field (SU)        | BY-AP-MW-1         | 5.91         | 5.47         | 4/3/2023        | 5.78        | No         | 19        | n/a        | n/a          | n/a            | 0        | n/a          | n/a        | 0.009664         | NP Intra (normality) 1 of 2        |
| <b>pH, field (SU)</b> | <b>BY-AP-MW-10</b> | <b>6.463</b> | <b>6.143</b> | <b>4/3/2023</b> | <b>6.05</b> | <b>Yes</b> | <b>19</b> | <b>n/a</b> | <b>6.303</b> | <b>0.06515</b> | <b>0</b> | <b>None</b>  | <b>No</b>  | <b>0.0002351</b> | <b>Param Intra 1 of 2</b>          |
| pH, field (SU)        | BY-AP-MW-11        | 6.34         | 5.85         | 4/4/2023        | 6.27        | No         | 19        | n/a        | n/a          | n/a            | 0        | n/a          | n/a        | 0.009664         | NP Intra (normality) 1 of 2        |
| pH, field (SU)        | BY-AP-MW-12        | 6.25         | 5.58         | 4/4/2023        | 5.76        | No         | 19        | n/a        | n/a          | n/a            | 0        | n/a          | n/a        | 0.009664         | NP Intra (normality) 1 of 2        |
| pH, field (SU)        | BY-AP-MW-13        | 6.14         | 5.79         | 4/4/2023        | 6.06        | No         | 19        | n/a        | n/a          | n/a            | 0        | n/a          | n/a        | 0.009664         | NP Intra (normality) 1 of 2        |
| pH, field (SU)        | BY-AP-MW-14        | 6.14         | 5.76         | 4/5/2023        | 5.93        | No         | 19        | n/a        | n/a          | n/a            | 0        | n/a          | n/a        | 0.009664         | NP Intra (normality) 1 of 2        |
| pH, field (SU)        | BY-AP-MW-15        | 6.76         | 6.2          | 4/3/2023        | 6.63        | No         | 19        | n/a        | n/a          | n/a            | 0        | n/a          | n/a        | 0.009664         | NP Intra (normality) 1 of 2        |
| pH, field (SU)        | BY-AP-MW-16        | 5.87         | 5.23         | 4/5/2023        | 5.83        | No         | 19        | n/a        | n/a          | n/a            | 0        | n/a          | n/a        | 0.009664         | NP Intra (normality) 1 of 2        |
| <b>pH, field (SU)</b> | <b>BY-AP-MW-2</b>  | <b>6.2</b>   | <b>5.161</b> | <b>4/3/2023</b> | <b>4.88</b> | <b>Yes</b> | <b>19</b> | <b>n/a</b> | <b>1094</b>  | <b>156.3</b>   | <b>0</b> | <b>None</b>  | <b>x^4</b> | <b>0.0002351</b> | <b>Param Intra 1 of 2</b>          |
| <b>pH, field (SU)</b> | <b>BY-AP-MW-3</b>  | <b>5.22</b>  | <b>4.24</b>  | <b>4/4/2023</b> | <b>5.31</b> | <b>Yes</b> | <b>19</b> | <b>n/a</b> | <b>n/a</b>   | <b>n/a</b>     | <b>0</b> | <b>n/a</b>   | <b>n/a</b> | <b>0.009664</b>  | <b>NP Intra (normality) 1 of 2</b> |
| pH, field (SU)        | BY-AP-MW-4         | 5.355        | 3.955        | 4/4/2023        | 4.55        | No         | 19        | n/a        | 4.655        | 0.2846         | 0        | None         | No         | 0.0002351        | Param Intra 1 of 2                 |
| pH, field (SU)        | BY-AP-MW-5         | 6.03         | 5.47         | 4/4/2023        | 5.84        | No         | 18        | n/a        | n/a          | n/a            | 0        | n/a          | n/a        | 0.01075          | NP Intra (normality) 1 of 2        |
| pH, field (SU)        | BY-AP-MW-6         | 5.694        | 4.846        | 4/4/2023        | 5.33        | No         | 19        | n/a        | 801.5        | 101.6          | 0        | None         | x^4        | 0.0002351        | Param Intra 1 of 2                 |
| <b>pH, field (SU)</b> | <b>BY-AP-MW-7</b>  | <b>6.432</b> | <b>6.166</b> | <b>4/3/2023</b> | <b>6.53</b> | <b>Yes</b> | <b>18</b> | <b>n/a</b> | <b>6.299</b> | <b>0.05346</b> | <b>0</b> | <b>None</b>  | <b>No</b>  | <b>0.0002351</b> | <b>Param Intra 1 of 2</b>          |
| <b>pH, field (SU)</b> | <b>BY-AP-MW-8</b>  | <b>6.26</b>  | <b>5.89</b>  | <b>4/3/2023</b> | <b>6.34</b> | <b>Yes</b> | <b>19</b> | <b>n/a</b> | <b>n/a</b>   | <b>n/a</b>     | <b>0</b> | <b>n/a</b>   | <b>n/a</b> | <b>0.009664</b>  | <b>NP Intra (normality) 1 of 2</b> |
| pH, field (SU)        | BY-AP-MW-9         | 6.32         | 5.97         | 4/4/2023        | 6.15        | No         | 19        | n/a        | n/a          | n/a            | 0        | n/a          | n/a        | 0.009664         | NP Intra (normality) 1 of 2        |
| pH, field (SU)        | BY-UP-MW-1         | 4.882        | 4.49         | 4/12/2023       | 4.77        | No         | 18        | n/a        | 4.686        | 0.0786         | 0        | None         | No         | 0.0002351        | Param Intra 1 of 2                 |
| pH, field (SU)        | BY-UP-MW-2         | 5.032        | 4.318        | 4/12/2023       | 4.67        | No         | 18        | n/a        | 4.675        | 0.1431         | 0        | None         | No         | 0.0002351        | Param Intra 1 of 2                 |
| pH, field (SU)        | BY-UP-MW-3         | 4.98         | 4.4          | 4/12/2023       | 4.83        | No         | 18        | n/a        | n/a          | n/a            | 0        | n/a          | n/a        | 0.01075          | NP Intra (normality) 1 of 2        |
| pH, field (SU)        | BY-UP-MW-4         | 5.082        | 4.517        | 4/12/2023       | 4.73        | No         | 18        | n/a        | 4.799        | 0.1134         | 0        | None         | No         | 0.0002351        | Param Intra 1 of 2                 |
| Sulfate as SO4 (mg/L) | BY-AP-MW-1         | 6.348        | n/a          | 4/3/2023        | 34.2        | Yes        | 13        | n/a        | 52.17        | 74.33          | 46.15    | Kaplan-Meier | x^3        | 0.0004702        | Param Intra 1 of 2                 |
| Sulfate as SO4 (mg/L) | BY-AP-MW-10        | 5            | n/a          | 4/3/2023        | 15          | Yes        | 13        | n/a        | n/a          | n/a            | 69.23    | n/a          | n/a        | 0.009692         | NP Intra (NDs) 1 of 2              |
| Sulfate as SO4 (mg/L) | BY-AP-MW-11        | 19.37        | n/a          | 4/4/2023        | 84.3        | Yes        | 13        | n/a        | 1.308        | 0.5028         | 46.15    | Kaplan-Meier | x^(1/3)    | 0.0004702        | Param Intra 1 of 2                 |
| Sulfate as SO4 (mg/L) | BY-AP-MW-12        | 7.04         | n/a          | 4/4/2023        | 39.6        | Yes        | 12        | n/a        | n/a          | n/a            | 75       | n/a          | n/a        | 0.01077          | NP Intra (NDs) 1 of 2              |
| Sulfate as SO4 (mg/L) | BY-AP-MW-13        | 9.841        | n/a          | 4/4/2023        | 24.6        | Yes        | 12        | n/a        | 3.818        | 2.151          | 41.67    | Kaplan-Meier | No         | 0.0004702        | Param Intra 1 of 2                 |
| Sulfate as SO4 (mg/L) | BY-AP-MW-14        | 61.6         | n/a          | 4/5/2023        | 112         | Yes        | 16        | n/a        | n/a          | n/a            | 56.25    | n/a          | n/a        | 0.006456         | NP Intra (NDs) 1 of 2              |
| Sulfate as SO4 (mg/L) | BY-AP-MW-15        | 7.61         | n/a          | 4/3/2023        | 8.28        | Yes        | 17        | n/a        | n/a          | n/a            | 58.82    | n/a          | n/a        | 0.005914         | NP Intra (NDs) 1 of 2              |
| Sulfate as SO4 (mg/L) | BY-AP-MW-16        | 6.72         | n/a          | 4/5/2023        | 9.3         | Yes        | 15        | n/a        | n/a          | n/a            | 60       | n/a          | n/a        | 0.007533         | NP Intra (NDs) 1 of 2              |
| Sulfate as SO4 (mg/L) | BY-AP-MW-2         | 3.3          | n/a          | 4/3/2023        | 1.77J       | No         | 17        | n/a        | n/a          | n/a            | 64.71    | n/a          | n/a        | 0.005914         | NP Intra (NDs) 1 of 2              |
| Sulfate as SO4 (mg/L) | BY-AP-MW-3         | 5            | n/a          | 4/4/2023        | 2.92        | No         | 17        | n/a        | n/a          | n/a            | 41.18    | n/a          | n/a        | 0.005914         | NP Intra (normality) 1 of 2        |
| Sulfate as SO4 (mg/L) | BY-AP-MW-4         | 5.286        | n/a          | 4/4/2023        | 2.33        | No         | 17        | n/a        | 2.731        | 1.012          | 5.882    | None         | No         | 0.0004702        | Param Intra 1 of 2                 |
| Sulfate as SO4 (mg/L) | BY-AP-MW-5         | 11           | n/a          | 4/4/2023        | 43.9        | Yes        | 15        | n/a        | n/a          | n/a            | 60       | n/a          | n/a        | 0.007533         | NP Intra (NDs) 1 of 2              |
| Sulfate as SO4 (mg/L) | BY-AP-MW-6         | 3.037        | n/a          | 4/4/2023        | 1.59J       | No         | 17        | n/a        | 0.01145      | 0.4356         | 23.53    | Kaplan-Meier | ln(x)      | 0.0004702        | Param Intra 1 of 2                 |
| Sulfate as SO4 (mg/L) | BY-AP-MW-7         | 5            | n/a          | 4/3/2023        | 14.8        | Yes        | 16        | n/a        | n/a          | n/a            | 37.5     | n/a          | n/a        | 0.006456         | NP Intra (normality) 1 of 2        |
| Sulfate as SO4 (mg/L) | BY-AP-MW-8         | 6.01         | n/a          | 4/3/2023        | 32.1        | Yes        | 13        | n/a        | n/a          | n/a            | 76.92    | n/a          | n/a        | 0.009692         | NP Intra (NDs) 1 of 2              |
| Sulfate as SO4 (mg/L) | BY-AP-MW-9         | 5.91         | n/a          | 4/4/2023        | 25.3        | Yes        | 13        | n/a        | n/a          | n/a            | 69.23    | n/a          | n/a        | 0.009692         | NP Intra (NDs) 1 of 2              |
| Sulfate as SO4 (mg/L) | BY-UP-MW-1         | 31.7         | n/a          | 4/12/2023       | 11.8        | No         | 16        | n/a        | 3.458        | 0.85           | 0        | None         | sqrt(x)    | 0.0004702        | Param Intra 1 of 2                 |
| Sulfate as SO4 (mg/L) | BY-UP-MW-2         | 9.774        | n/a          | 4/12/2023       | 8.54        | No         | 15        | n/a        | 6.454        | 1.269          | 0        | None         | No         | 0.0004702        | Param Intra 1 of 2                 |
| Sulfate as SO4 (mg/L) | BY-UP-MW-3         | 9.087        | n/a          | 4/12/2023       | 7.59        | No         | 16        | n/a        | 7.496        | 0.6224         | 0        | None         | No         | 0.0004702        | Param Intra 1 of 2                 |
| Sulfate as SO4 (mg/L) | BY-UP-MW-4         | 10.8         | n/a          | 4/12/2023       | 5.93        | No         | 16        | n/a        | n/a          | n/a            | 0        | n/a          | n/a        | 0.006456         | NP Intra (normality) 1 of 2        |

Within Limits

### Prediction Limit Intrawell Non-parametric

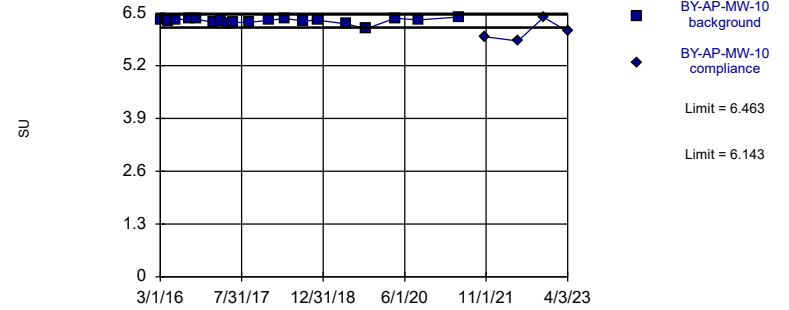


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 19 background values. Well-constituent pair annual alpha = 0.01928. Individual comparison alpha = 0.009664 (1 of 2).

Constituent: pH, field Analysis Run 6/6/2023 11:51 PM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limits

### Prediction Limit Intrawell Parametric

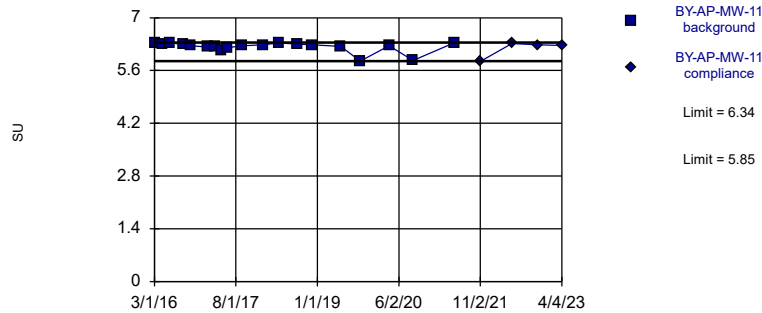


Background Data Summary: Mean=6.303, Std. Dev.=0.06515, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8965, critical = 0.863. Kappa = 2.46 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 6/6/2023 11:52 PM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

### Prediction Limit Intrawell Non-parametric

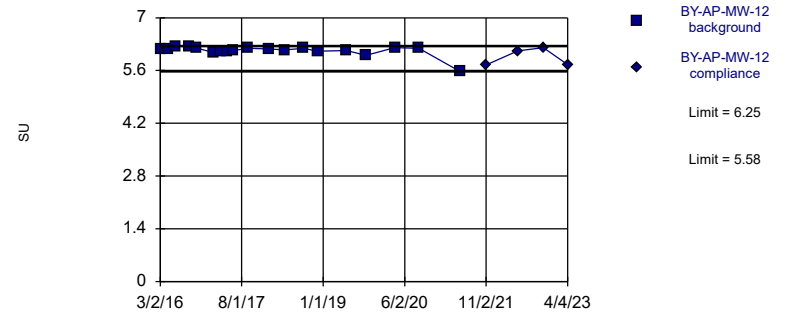


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 19 background values. Well-constituent pair annual alpha = 0.01928. Individual comparison alpha = 0.009664 (1 of 2).

Constituent: pH, field Analysis Run 6/6/2023 11:52 PM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

### Prediction Limit Intrawell Non-parametric



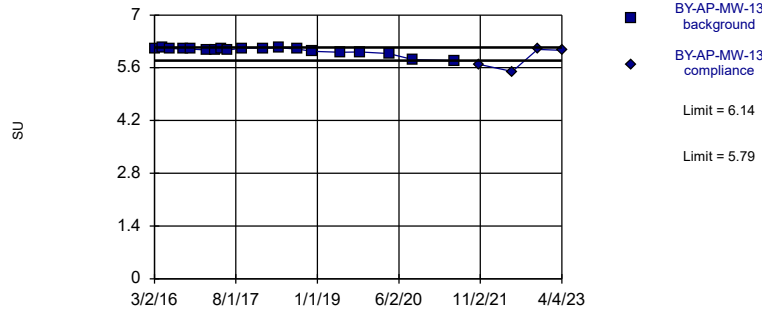
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 19 background values. Well-constituent pair annual alpha = 0.01928. Individual comparison alpha = 0.009664 (1 of 2).

Constituent: pH, field Analysis Run 6/6/2023 11:52 PM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond



Within Limits

### Prediction Limit Intrawell Non-parametric

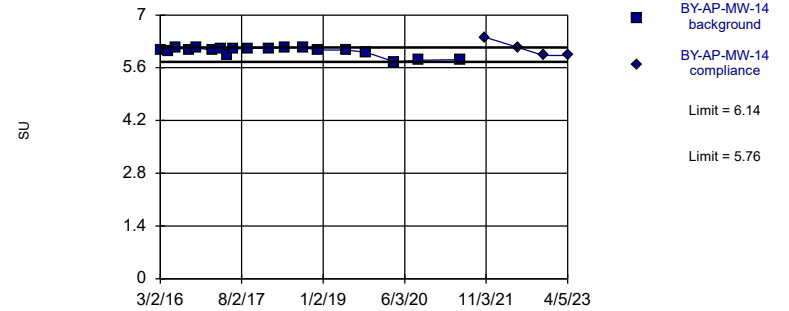


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 19 background values. Well-constituent pair annual alpha = 0.01928. Individual comparison alpha = 0.009664 (1 of 2).

Constituent: pH, field Analysis Run 6/6/2023 11:52 PM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

### Prediction Limit Intrawell Non-parametric

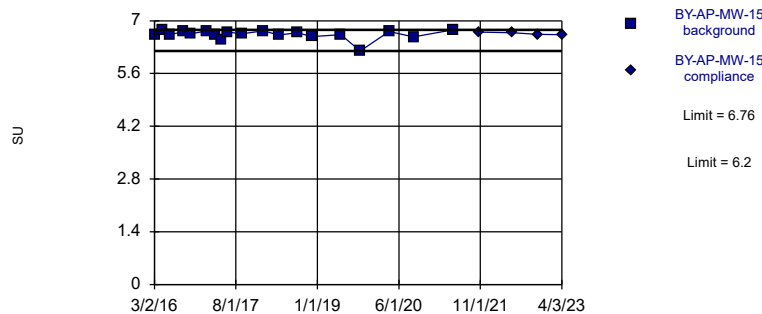


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 19 background values. Well-constituent pair annual alpha = 0.01928. Individual comparison alpha = 0.009664 (1 of 2).

Constituent: pH, field Analysis Run 6/6/2023 11:52 PM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

### Prediction Limit Intrawell Non-parametric

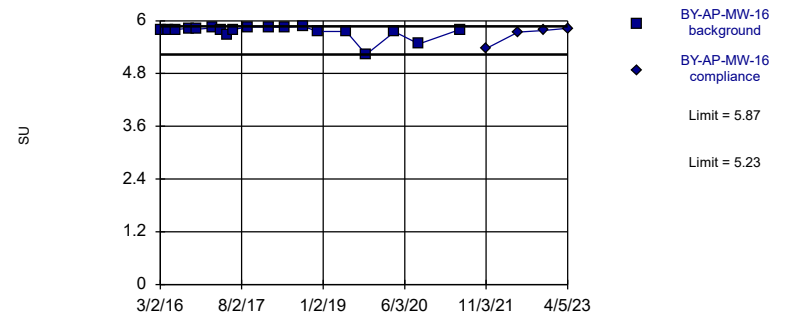


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 19 background values. Well-constituent pair annual alpha = 0.01928. Individual comparison alpha = 0.009664 (1 of 2).

Constituent: pH, field Analysis Run 6/6/2023 11:52 PM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

### Prediction Limit Intrawell Non-parametric

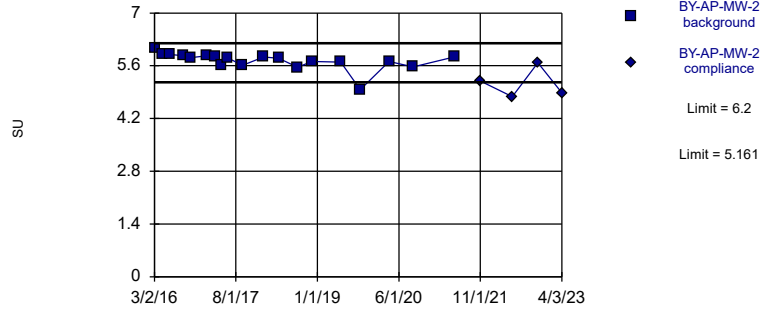


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 19 background values. Well-constituent pair annual alpha = 0.01928. Individual comparison alpha = 0.009664 (1 of 2).

Constituent: pH, field Analysis Run 6/6/2023 11:52 PM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limits

### Prediction Limit Intrawell Parametric

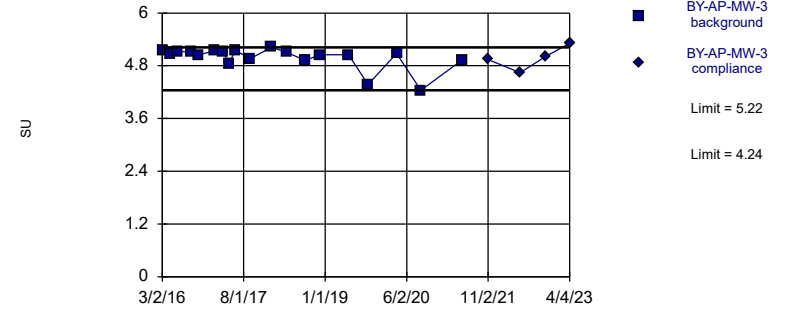


Background Data Summary (based on  $x^4$  transformation): Mean=1094, Std. Dev.=156.3, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8685, critical = 0.863. Kappa = 2.46 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 6/6/2023 11:52 PM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limits

### Prediction Limit Intrawell Non-parametric

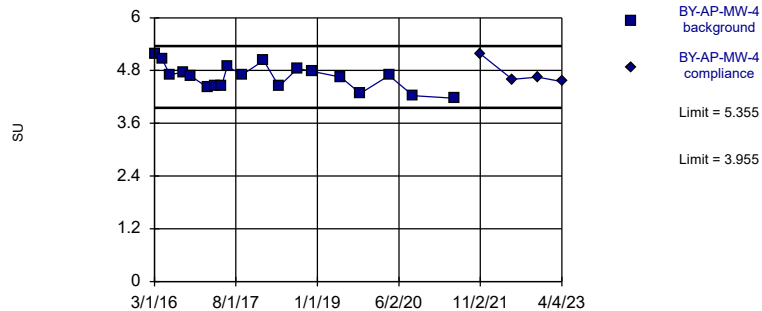


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 19 background values. Well-constituent pair annual alpha = 0.01928. Individual comparison alpha = 0.009664 (1 of 2).

Constituent: pH, field Analysis Run 6/6/2023 11:52 PM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

### Prediction Limit Intrawell Parametric

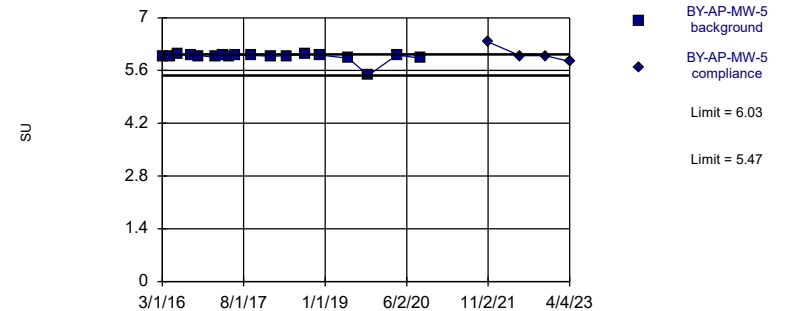


Background Data Summary: Mean=4.655, Std. Dev.=0.2846, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.972, critical = 0.863. Kappa = 2.46 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 6/6/2023 11:52 PM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

### Prediction Limit Intrawell Non-parametric

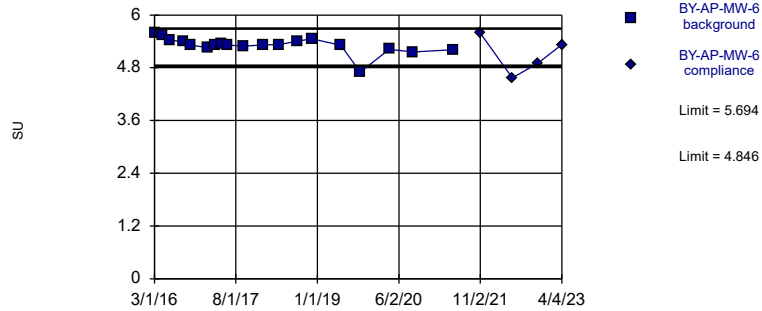


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 18 background values. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01075 (1 of 2).

Constituent: pH, field Analysis Run 6/6/2023 11:52 PM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

### Prediction Limit Intrawell Parametric

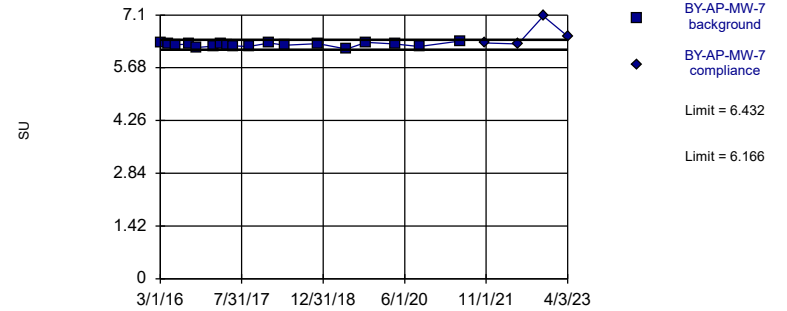


Background Data Summary (based on  $x^4$  transformation): Mean=801.5, Std. Dev.=101.6, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8738, critical = 0.863. Kappa = 2.46 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 6/6/2023 11:52 PM View: All  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limits

### Prediction Limit Intrawell Parametric

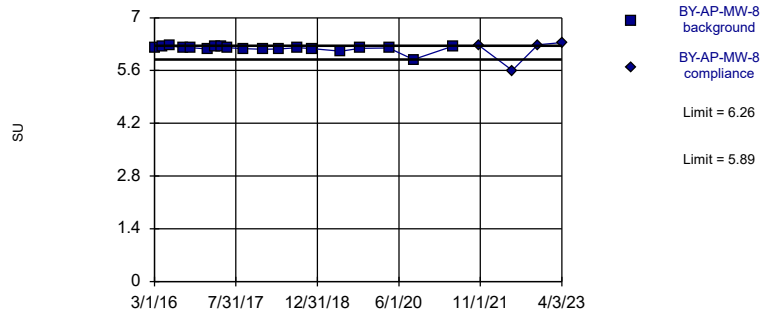


Background Data Summary: Mean=6.299, Std. Dev.=0.05346, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9863, critical = 0.858. Kappa = 2.492 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 6/6/2023 11:52 PM View: All  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limits

### Prediction Limit Intrawell Non-parametric

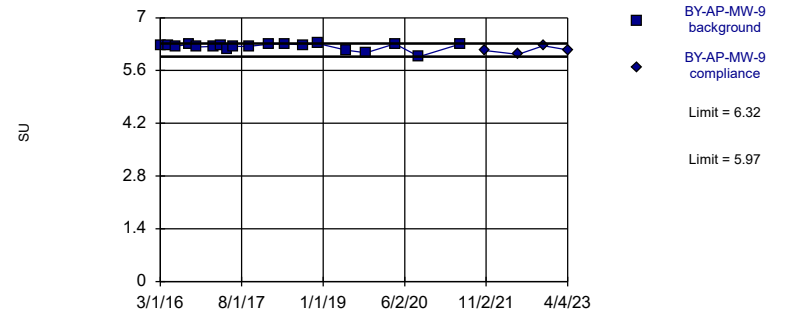


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 19 background values. Well-constituent pair annual alpha = 0.01928. Individual comparison alpha = 0.009664 (1 of 2).

Constituent: pH, field Analysis Run 6/6/2023 11:52 PM View: All  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

### Prediction Limit Intrawell Non-parametric

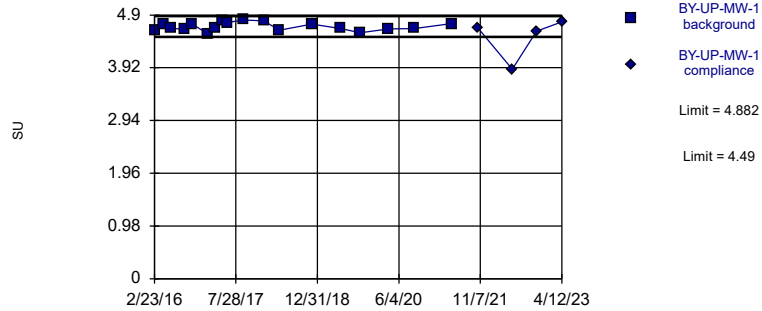


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 19 background values. Well-constituent pair annual alpha = 0.01928. Individual comparison alpha = 0.009664 (1 of 2).

Constituent: pH, field Analysis Run 6/6/2023 11:52 PM View: All  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

### Prediction Limit Intrawell Parametric

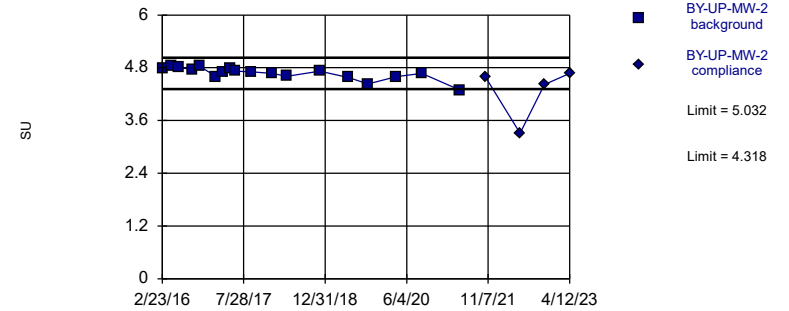


Background Data Summary: Mean=4.686, Std. Dev.=0.0786, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9444, critical = 0.858. Kappa = 2.492 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 6/6/2023 11:52 PM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

### Prediction Limit Intrawell Parametric

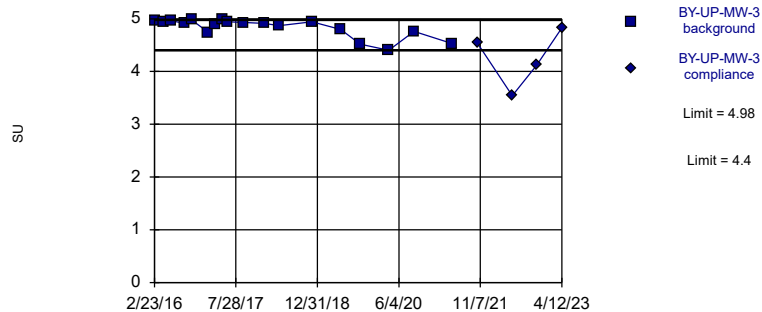


Background Data Summary: Mean=4.675, Std. Dev.=0.1431, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8886, critical = 0.858. Kappa = 2.492 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 6/6/2023 11:52 PM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

### Prediction Limit Intrawell Non-parametric

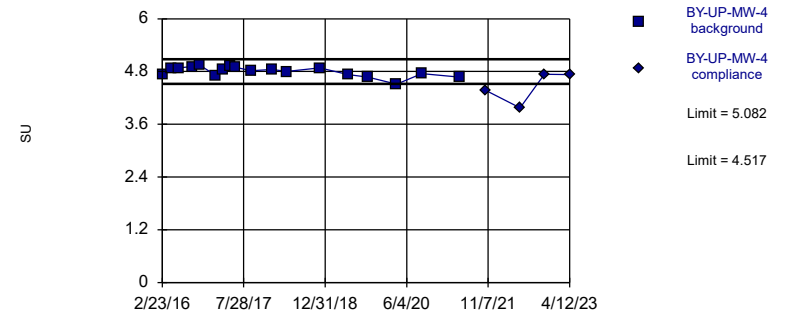


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 18 background values. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01075 (1 of 2).

Constituent: pH, field Analysis Run 6/6/2023 11:52 PM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

### Prediction Limit Intrawell Parametric

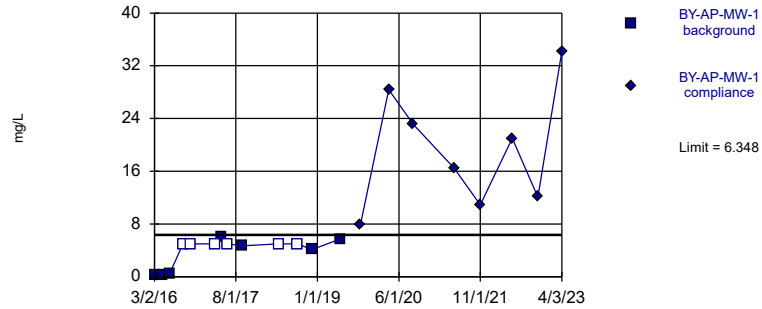


Background Data Summary: Mean=4.799, Std. Dev.=0.1134, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9332, critical = 0.858. Kappa = 2.492 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 6/6/2023 11:52 PM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Santas™ v.10.0.02 . UG  
 Hollow symbols indicate censored values.  
 Exceeds Limit

Prediction Limit  
 Intrawell Parametric

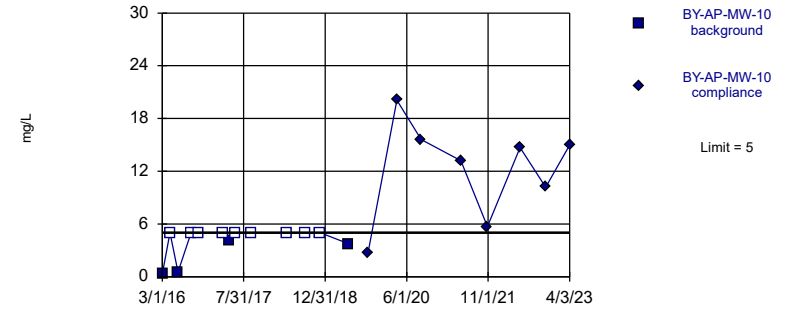


Background Data Summary (based on cube transformation) (after Kaplan-Meier Adjustment): Mean=52.17, Std. Dev.=74.33, n=13, 46.15% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8687, critical = 0.814. Kappa = 2.739 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Sulfate as SO4 Analysis Run 6/6/2023 11:52 PM View: All  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Santas™ v.10.0.02 . UG  
 Hollow symbols indicate censored values.  
 Exceeds Limit

Prediction Limit  
 Intrawell Non-parametric

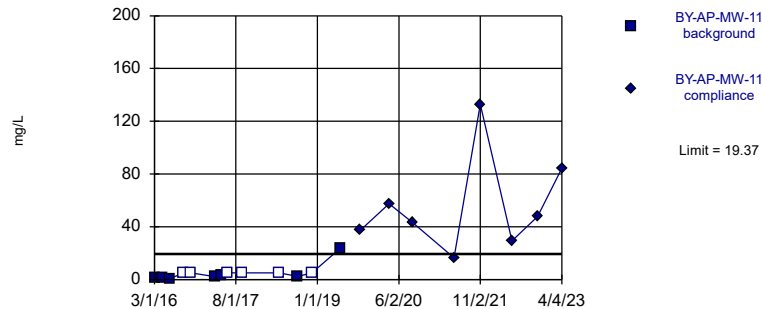


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 69.23% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 6/6/2023 11:52 PM View: All  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Santas™ v.10.0.02 . UG  
 Hollow symbols indicate censored values.  
 Exceeds Limit

Prediction Limit  
 Intrawell Parametric

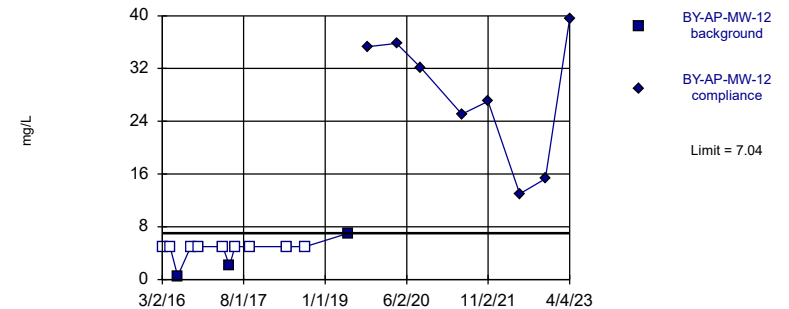


Background Data Summary (based on cube root transformation) (after Kaplan-Meier Adjustment): Mean=1.308, Std. Dev.=0.5028, n=13, 46.15% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8281, critical = 0.814. Kappa = 2.739 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Sulfate as SO4 Analysis Run 6/6/2023 11:52 PM View: All  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Santas™ v.10.0.02 . UG  
 Hollow symbols indicate censored values.  
 Exceeds Limit

Prediction Limit  
 Intrawell Non-parametric

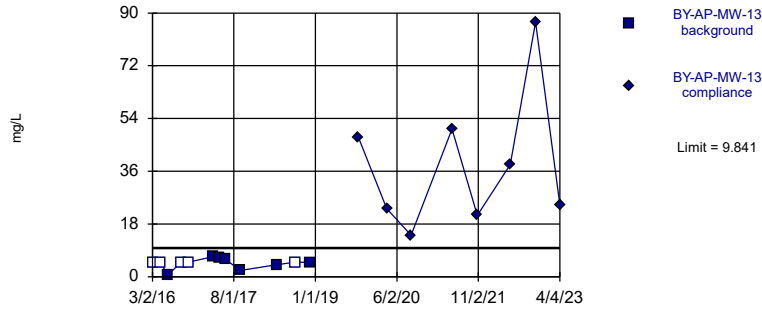


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 75% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 6/6/2023 11:52 PM View: All  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.10.0.02 . UG  
 Hollow symbols indicate censored values.  
 Exceeds Limit

Prediction Limit  
 Intrawell Parametric

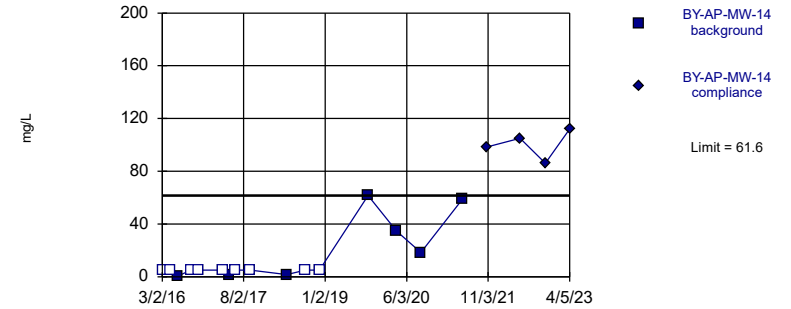


Background Data Summary (after Kaplan-Meier Adjustment): Mean=3.818, Std. Dev.=2.151, n=12, 41.67% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8449, critical = 0.805. Kappa = 2.8 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Sulfate as SO4 Analysis Run 6/6/2023 11:52 PM View: All  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.10.0.02 . UG  
 Hollow symbols indicate censored values.  
 Exceeds Limit

Prediction Limit  
 Intrawell Non-parametric

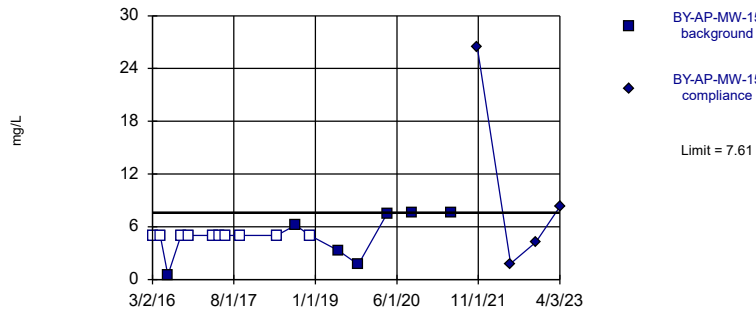


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 56.25% NDs. Well-constituent pair annual alpha = 0.01287. Individual comparison alpha = 0.006456 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 6/6/2023 11:52 PM View: All  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.10.0.02 . UG  
 Hollow symbols indicate censored values.  
 Exceeds Limit

Prediction Limit  
 Intrawell Non-parametric

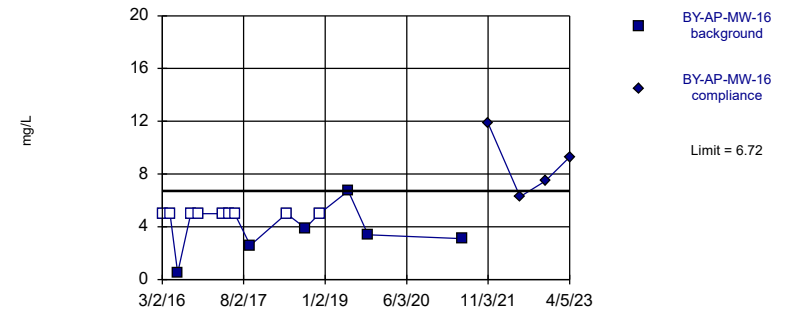


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 58.82% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 6/6/2023 11:52 PM View: All  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.10.0.02 . UG  
 Hollow symbols indicate censored values.  
 Exceeds Limit

Prediction Limit  
 Intrawell Non-parametric

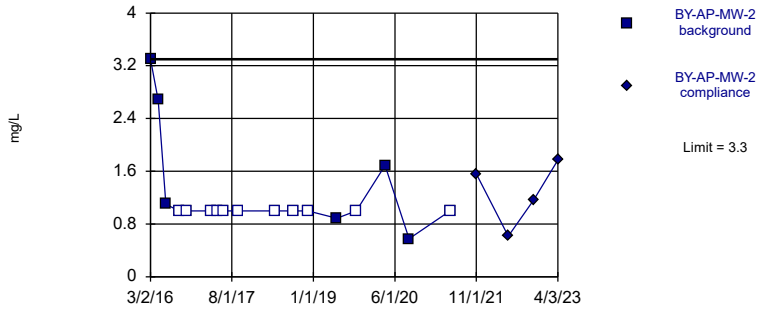


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 60% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 6/6/2023 11:52 PM View: All  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limit

Prediction Limit  
Intrawell Non-parametric

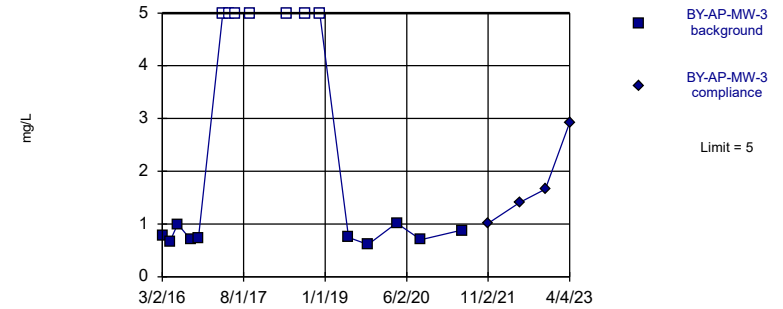


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 64.71% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 6/6/2023 11:52 PM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limit

Prediction Limit  
Intrawell Non-parametric

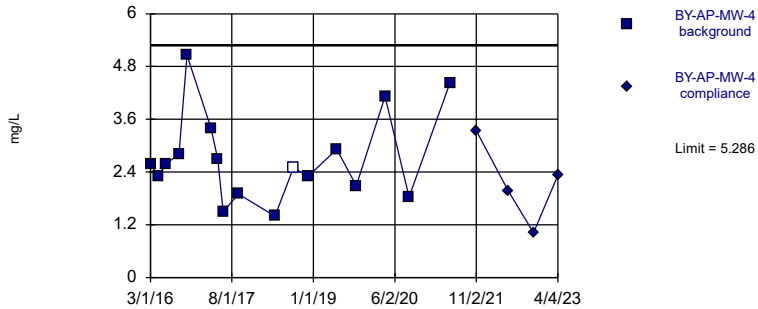


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 17 background values. 41.18% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 6/6/2023 11:52 PM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limit

Prediction Limit  
Intrawell Parametric

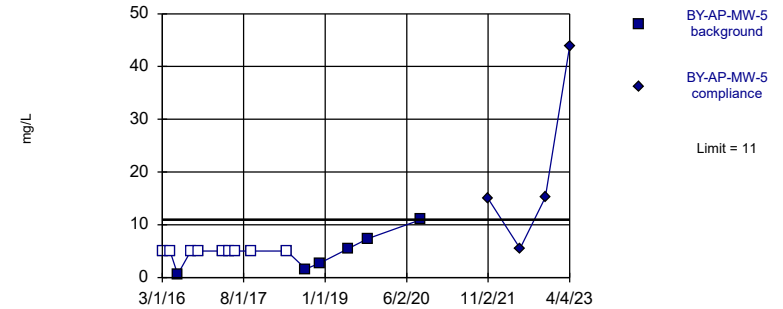


Background Data Summary: Mean=2.731, Std. Dev.=1.012, n=17, 5.882% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9141, critical = 0.851. Kappa = 2.524 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Sulfate as SO4 Analysis Run 6/6/2023 11:52 PM View: All  
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 15 background values. 60% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

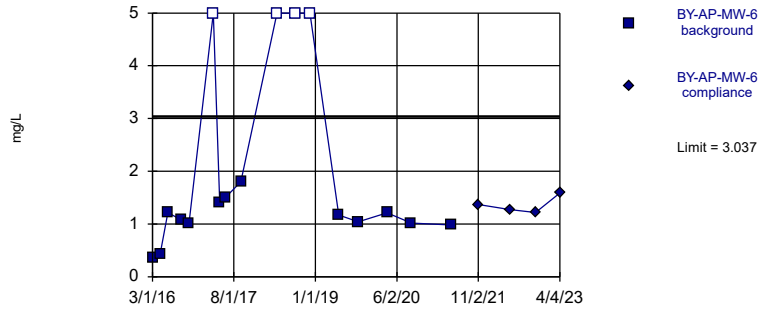
Constituent: Sulfate as SO4 Analysis Run 6/6/2023 11:52 PM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.10.0.02 . UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=0.01145, Std. Dev.=0.4356, n=17, 23.53% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8672, critical = 0.851. Kappa = 2.524 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

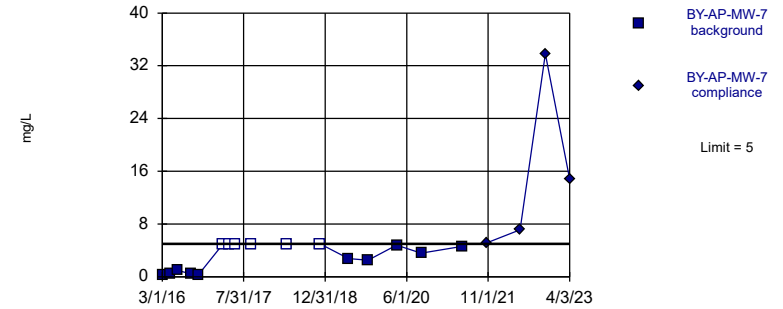
Constituent: Sulfate as SO4 Analysis Run 6/6/2023 11:52 PM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.10.0.02 . 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 16 background values. 37.5% NDs. Well-constituent pair annual alpha = 0.01287. Individual comparison alpha = 0.006456 (1 of 2).

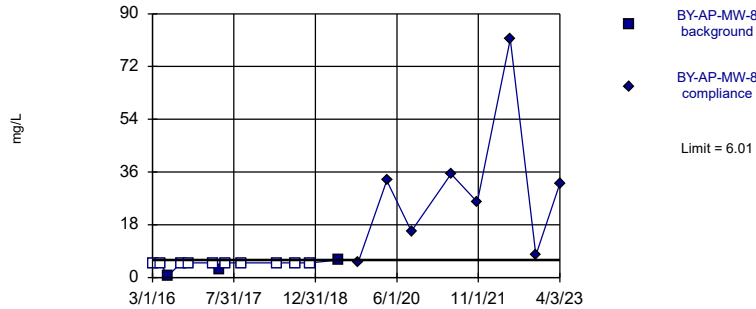
Constituent: Sulfate as SO4 Analysis Run 6/6/2023 11:52 PM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.10.0.02 . 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).

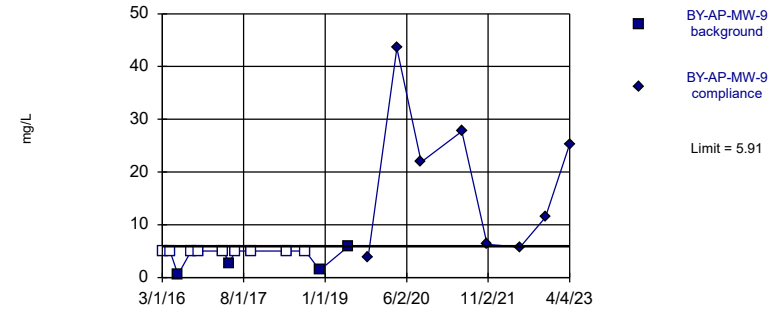
Constituent: Sulfate as SO4 Analysis Run 6/6/2023 11:52 PM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.10.0.02 . UG  
Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Non-parametric



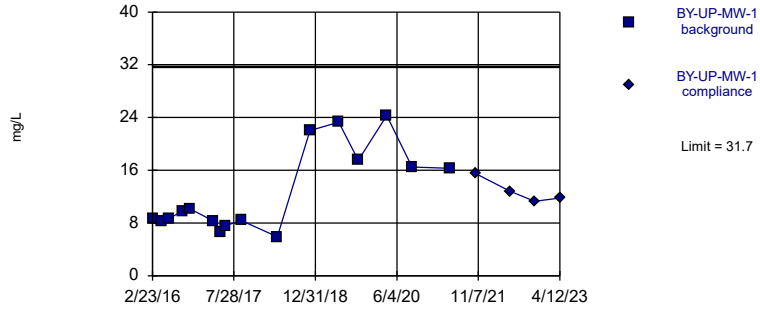
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 69.23% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 6/6/2023 11:52 PM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond



Within Limit

### Prediction Limit Intrawell Parametric

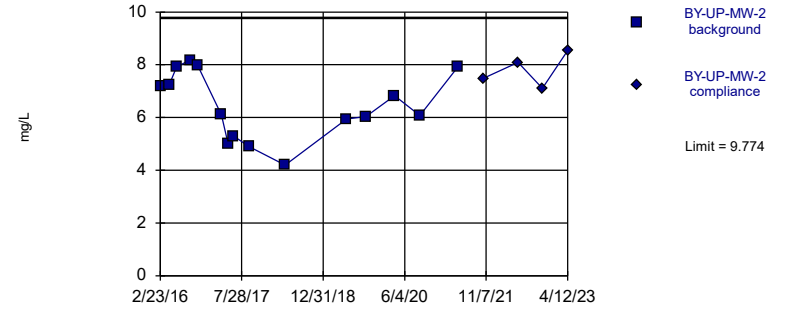


Background Data Summary (based on square root transformation): Mean=3.458, Std. Dev.=0.85, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8598, critical = 0.844. Kappa = 2.556 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Sulfate as SO4 Analysis Run 6/6/2023 11:52 PM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limit

### Prediction Limit Intrawell Parametric

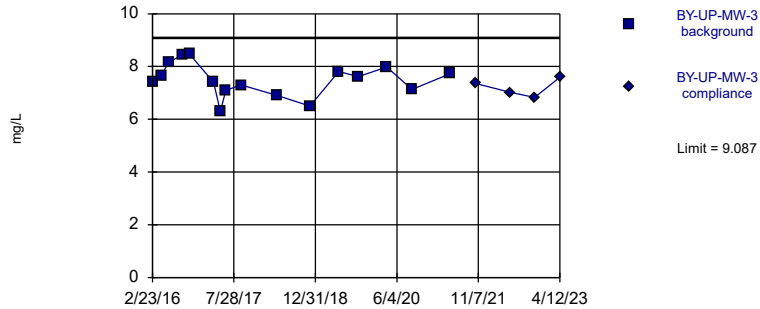


Background Data Summary: Mean=6.454, Std. Dev.=1.269, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.937, critical = 0.835. Kappa = 2.617 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Sulfate as SO4 Analysis Run 6/6/2023 11:52 PM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limit

### Prediction Limit Intrawell Parametric

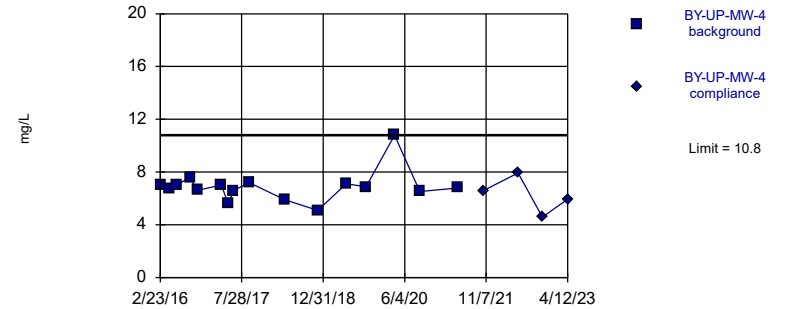


Background Data Summary: Mean=7.496, Std. Dev.=0.6224, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9756, critical = 0.844. Kappa = 2.556 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Sulfate as SO4 Analysis Run 6/6/2023 11:52 PM View: All  
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 16 background values. Well-constituent pair annual alpha = 0.01287. Individual comparison alpha = 0.006456 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 6/6/2023 11:52 PM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond

# Prediction Limit

Constituent: pH, field (SU) Analysis Run 6/6/2023 11:55 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | 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       |            |
| 11/1/2021  |            | 6.01       |
| 5/24/2022  |            | 5.44       |
| 11/2/2022  |            | 5.56       |
| 4/3/2023   |            | 5.78       |

# Prediction Limit

Constituent: pH, field (SU) Analysis Run 6/6/2023 11:55 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | 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         |             |
| 10/27/2021 |             | 5.91        |
| 5/24/2022  |             | 5.81        |
| 11/2/2022  |             | 6.39        |
| 4/3/2023   |             | 6.05        |

# Prediction Limit

Constituent: pH, field (SU) Analysis Run 6/6/2023 11:55 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | 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        |             |
| 11/2/2021  |             | 5.84        |
| 5/23/2022  |             | 6.32        |
| 11/1/2022  |             | 6.28        |
| 4/4/2023   |             | 6.27        |

# Prediction Limit

Constituent: pH, field (SU) Analysis Run 6/6/2023 11:55 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | 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        |             |
| 11/1/2021  |             | 5.75        |
| 5/23/2022  |             | 6.12        |
| 11/1/2022  |             | 6.21        |
| 4/4/2023   |             | 5.76        |

# Prediction Limit

Constituent: pH, field (SU) Analysis Run 6/6/2023 11:55 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | 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        |             |
| 10/26/2021 |             | 5.69        |
| 5/24/2022  |             | 5.5         |
| 11/1/2022  |             | 6.09        |
| 4/4/2023   |             | 6.06        |

# Prediction Limit

Constituent: pH, field (SU) Analysis Run 6/6/2023 11:55 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | 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        |             |
| 10/27/2021 |             | 6.41        |
| 5/25/2022  |             | 6.14        |
| 11/1/2022  |             | 5.93        |
| 4/5/2023   |             | 5.93        |

# Prediction Limit

Constituent: pH, field (SU) Analysis Run 6/6/2023 11:55 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | 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        |             |
| 10/26/2021 |             | 6.7         |
| 5/25/2022  |             | 6.68        |
| 11/1/2022  |             | 6.64        |
| 4/3/2023   |             | 6.63        |



# Prediction Limit

Constituent: pH, field (SU) Analysis Run 6/6/2023 11:55 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | 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         |             |
| 11/1/2021  |             | 5.36        |
| 5/25/2022  |             | 5.74        |
| 11/1/2022  |             | 5.78        |
| 4/5/2023   |             | 5.83        |

# Prediction Limit

Constituent: pH, field (SU) Analysis Run 6/6/2023 11:55 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | 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       |            |
| 11/1/2021  |            | 5.2        |
| 5/24/2022  |            | 4.78       |
| 11/2/2022  |            | 5.68       |
| 4/3/2023   |            | 4.88       |

# Prediction Limit

Constituent: pH, field (SU) Analysis Run 6/6/2023 11:55 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | 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       |            |
| 11/1/2021  |            | 4.94       |
| 5/25/2022  |            | 4.64       |
| 11/1/2022  |            | 5.01       |
| 4/4/2023   |            | 5.31       |

# Prediction Limit

Constituent: pH, field (SU) Analysis Run 6/6/2023 11:55 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | 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       |            |
| 11/1/2021  |            | 5.18       |
| 5/25/2022  |            | 4.6        |
| 10/31/2022 |            | 4.65       |
| 4/4/2023   |            | 4.55       |

# Prediction Limit

Constituent: pH, field (SU) Analysis Run 6/6/2023 11:55 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | 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       |            |
| 11/2/2021  |            | 6.36       |
| 5/25/2022  |            | 5.99       |
| 10/31/2022 |            | 5.99       |
| 4/4/2023   |            | 5.84       |

# Prediction Limit

Constituent: pH, field (SU) Analysis Run 6/6/2023 11:55 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | 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       |            |
| 11/2/2021  |            | 5.59       |
| 5/25/2022  |            | 4.57       |
| 10/31/2022 |            | 4.9        |
| 4/4/2023   |            | 5.33       |

# Prediction Limit

Constituent: pH, field (SU) Analysis Run 6/6/2023 11:55 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | 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        |            |
| 10/27/2021 |            | 6.35       |
| 5/24/2022  |            | 6.32       |
| 10/31/2022 |            | 7.07       |
| 4/3/2023   |            | 6.53       |

# Prediction Limit

Constituent: pH, field (SU) Analysis Run 6/6/2023 11:55 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | 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       |            |
| 10/26/2021 |            | 6.26       |
| 5/24/2022  |            | 5.6        |
| 11/2/2022  |            | 6.28       |
| 4/3/2023   |            | 6.34       |



# Prediction Limit

Constituent: pH, field (SU) Analysis Run 6/6/2023 11:55 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | 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        |            |
| 10/27/2021 |            | 6.13       |
| 5/24/2022  |            | 6.03       |
| 10/31/2022 |            | 6.26       |
| 4/4/2023   |            | 6.15       |

# Prediction Limit

Constituent: pH, field (SU) Analysis Run 6/6/2023 11:55 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | BY-UP-MW-1 | BY-UP-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       |            |
| 10/19/2021 |            | 4.67       |
| 5/31/2022  |            | 3.89       |
| 11/1/2022  |            | 4.6        |
| 4/12/2023  |            | 4.77       |

# Prediction Limit

Constituent: pH, field (SU) Analysis Run 6/6/2023 11:55 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | BY-UP-MW-2 | BY-UP-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       |            |
| 10/19/2021 |            | 4.6        |
| 5/31/2022  |            | 3.31       |
| 11/1/2022  |            | 4.42       |
| 4/12/2023  |            | 4.67       |

# Prediction Limit

Constituent: pH, field (SU) Analysis Run 6/6/2023 11:55 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | BY-UP-MW-3 | BY-UP-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       |            |
| 10/18/2021 |            | 4.55       |
| 5/31/2022  |            | 3.54       |
| 11/1/2022  |            | 4.12       |
| 4/12/2023  |            | 4.83       |

# Prediction Limit

Constituent: pH, field (SU) Analysis Run 6/6/2023 11:55 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | BY-UP-MW-4 | BY-UP-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       |            |
| 10/18/2021 |            | 4.38       |
| 5/31/2022  |            | 3.97       |
| 11/1/2022  |            | 4.74       |
| 4/12/2023  |            | 4.73       |

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/6/2023 11:55 PM View: All

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       |
| 11/1/2021  |            | 10.9       |
| 5/24/2022  |            | 21         |
| 11/2/2022  |            | 12.1       |
| 4/3/2023   |            | 34.200001  |

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/6/2023 11:55 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | 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        |
| 10/27/2021 |             | 5.72        |
| 5/24/2022  |             | 14.7        |
| 11/2/2022  |             | 10.2        |
| 4/3/2023   |             | 15          |

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/6/2023 11:55 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | 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        |
| 11/2/2021  |             | 133         |
| 5/23/2022  |             | 29.3        |
| 11/1/2022  |             | 47.700001   |
| 4/4/2023   |             | 84.300003   |



# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/6/2023 11:55 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | 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        |
| 11/1/2021  |             | 27          |
| 5/23/2022  |             | 13          |
| 11/1/2022  |             | 15.3        |
| 4/4/2023   |             | 39.599998   |

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/6/2023 11:55 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | 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 (o)    |             |
| 10/1/2019  |             | 47.7        |
| 3/31/2020  |             | 23.2        |
| 9/1/2020   |             | 14.2        |
| 5/19/2021  |             | 50.4        |
| 10/26/2021 |             | 21          |
| 5/24/2022  |             | 38.3        |
| 11/1/2022  |             | 86.900002   |
| 4/4/2023   |             | 24.6        |

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/6/2023 11:55 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | 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 (o)    |             |
| 10/1/2019  | 61.6        |             |
| 3/31/2020  | 34.7        |             |
| 9/2/2020   | 18.5        |             |
| 5/25/2021  | 59.2        |             |
| 10/27/2021 |             | 98.5        |
| 5/25/2022  |             | 105         |
| 11/1/2022  |             | 86.099998   |
| 4/5/2023   |             | 112         |

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/6/2023 11:55 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | 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        |             |
| 10/26/2021 |             | 26.4        |
| 5/25/2022  |             | 1.8 (J)     |
| 11/1/2022  |             | 4.24        |
| 4/3/2023   |             | 8.28        |

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/6/2023 11:55 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | 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 (o)    |             |
| 9/2/2020   | 13.3 (o)    |             |
| 5/19/2021  | 3.11        |             |
| 11/1/2021  |             | 11.9        |
| 5/25/2022  |             | 6.29        |
| 11/1/2022  |             | 7.46        |
| 4/5/2023   |             | 9.3         |

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/6/2023 11:55 PM View: All

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         |            |
| 11/1/2021  |            | 1.56       |
| 5/24/2022  |            | 0.615 (J)  |
| 11/2/2022  |            | 1.17 (J)   |
| 4/3/2023   |            | 1.77 (J)   |

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/6/2023 11:55 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | 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)  |            |
| 11/1/2021  |            | 1.01       |
| 5/25/2022  |            | 1.41 (J)   |
| 11/1/2022  |            | 1.66 (J)   |
| 4/4/2023   |            | 2.92       |

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/6/2023 11:55 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | 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       |            |
| 11/1/2021  |            | 3.34       |
| 5/25/2022  |            | 1.97 (J)   |
| 10/31/2022 |            | 1.02 (J)   |
| 4/4/2023   |            | 2.33       |



# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/6/2023 11:55 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | 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 (o)   |            |
| 9/1/2020   | 11         |            |
| 11/2/2021  |            | 15         |
| 5/25/2022  |            | 5.53       |
| 10/31/2022 |            | 15.2       |
| 4/4/2023   |            | 43.900002  |

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/6/2023 11:55 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | 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)  |            |
| 11/2/2021  |            | 1.37       |
| 5/25/2022  |            | 1.27 (J)   |
| 10/31/2022 |            | 1.22 (J)   |
| 4/4/2023   |            | 1.59 (J)   |

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/6/2023 11:55 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | 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        |            |
| 10/27/2021 |            | 5.17       |
| 5/24/2022  |            | 7.14       |
| 10/31/2022 |            | 33.799999  |
| 4/3/2023   |            | 14.8       |

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/6/2023 11:55 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | 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       |
| 10/26/2021 |            | 25.7       |
| 5/24/2022  |            | 81.3       |
| 11/2/2022  |            | 7.58       |
| 4/3/2023   |            | 32.099998  |

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/6/2023 11:55 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | 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       |
| 10/27/2021 |            | 6.33       |
| 5/24/2022  |            | 5.76       |
| 10/31/2022 |            | 11.4       |
| 4/4/2023   |            | 25.299999  |

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/6/2023 11:55 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | BY-UP-MW-1 | BY-UP-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       |            |
| 10/19/2021 |            | 15.5       |
| 5/31/2022  |            | 12.8       |
| 11/1/2022  |            | 11.3       |
| 4/12/2023  |            | 11.8       |

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/6/2023 11:55 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | BY-UP-MW-2 | BY-UP-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       |            |
| 10/19/2021 |            | 7.48       |
| 5/31/2022  |            | 8.09       |
| 11/1/2022  |            | 7.11       |
| 4/12/2023  |            | 8.54       |

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/6/2023 11:55 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | BY-UP-MW-3 | BY-UP-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       |            |
| 10/18/2021 |            | 7.36       |
| 5/31/2022  |            | 7.02       |
| 11/1/2022  |            | 6.83       |
| 4/12/2023  |            | 7.59       |



# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/6/2023 11:55 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | BY-UP-MW-4 | BY-UP-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        |            |
| 10/18/2021 |            | 6.58       |
| 5/31/2022  |            | 7.94       |
| 11/1/2022  |            | 4.59       |
| 4/12/2023  |            | 5.93       |

FIGURE E.

# Interwell Prediction Limits - Significant Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 6/7/2023, 12:09 AM

| Constituent            | Well        | Upper Lim. | Date     | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs  | ND Adj. | Transform | Alpha     | Method                      |
|------------------------|-------------|------------|----------|---------|------|------|---------|-----------|-------|---------|-----------|-----------|-----------------------------|
| Boron, total (mg/L)    | BY-AP-MW-1  | 0.188      | 4/3/2023 | 2.04    | Yes  | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Boron, total (mg/L)    | BY-AP-MW-10 | 0.188      | 4/3/2023 | 2.22    | Yes  | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Boron, total (mg/L)    | BY-AP-MW-16 | 0.188      | 4/5/2023 | 2.29    | Yes  | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Boron, total (mg/L)    | BY-AP-MW-9  | 0.188      | 4/4/2023 | 1.65    | Yes  | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Calcium, total (mg/L)  | BY-AP-MW-1  | 2.143      | 4/3/2023 | 36.9    | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-10 | 2.143      | 4/3/2023 | 48.8    | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-11 | 2.143      | 4/4/2023 | 26.6    | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-12 | 2.143      | 4/4/2023 | 23.3    | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-13 | 2.143      | 4/4/2023 | 47.7    | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-14 | 2.143      | 4/5/2023 | 9.78    | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-15 | 2.143      | 4/3/2023 | 6.76    | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-16 | 2.143      | 4/5/2023 | 11.4    | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-4  | 2.143      | 4/4/2023 | 3.36    | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-5  | 2.143      | 4/4/2023 | 8.36    | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-7  | 2.143      | 4/3/2023 | 3.52    | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-8  | 2.143      | 4/3/2023 | 4.21    | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-9  | 2.143      | 4/4/2023 | 32.4    | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Chloride, Total (mg/L) | BY-AP-MW-1  | 9.9        | 4/3/2023 | 23.7    | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-10 | 9.9        | 4/3/2023 | 29.7    | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-11 | 9.9        | 4/4/2023 | 28.9    | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-12 | 9.9        | 4/4/2023 | 25      | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-13 | 9.9        | 4/4/2023 | 14.3    | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-14 | 9.9        | 4/5/2023 | 47      | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-15 | 9.9        | 4/3/2023 | 91.5    | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-16 | 9.9        | 4/5/2023 | 21.8    | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-4  | 9.9        | 4/4/2023 | 32.4    | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-5  | 9.9        | 4/4/2023 | 17.2    | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-7  | 9.9        | 4/3/2023 | 59.4    | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-8  | 9.9        | 4/3/2023 | 10.8    | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-9  | 9.9        | 4/4/2023 | 18      | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Fluoride, total (mg/L) | BY-AP-MW-11 | 0.125      | 4/4/2023 | 0.126   | Yes  | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-13 | 0.125      | 4/4/2023 | 0.187   | Yes  | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-14 | 0.125      | 4/5/2023 | 0.127   | Yes  | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-15 | 0.125      | 4/3/2023 | 0.26    | Yes  | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-16 | 0.125      | 4/5/2023 | 0.144   | Yes  | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-7  | 0.125      | 4/3/2023 | 0.171   | Yes  | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| TDS (mg/L)             | BY-AP-MW-1  | 58         | 4/3/2023 | 400     | Yes  | 80   | n/a     | n/a       | 10    | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)             | BY-AP-MW-10 | 58         | 4/3/2023 | 370     | Yes  | 80   | n/a     | n/a       | 10    | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)             | BY-AP-MW-11 | 58         | 4/4/2023 | 392     | Yes  | 80   | n/a     | n/a       | 10    | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)             | BY-AP-MW-12 | 58         | 4/4/2023 | 334     | Yes  | 80   | n/a     | n/a       | 10    | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)             | BY-AP-MW-13 | 58         | 4/4/2023 | 220     | Yes  | 80   | n/a     | n/a       | 10    | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)             | BY-AP-MW-14 | 58         | 4/5/2023 | 316     | Yes  | 80   | n/a     | n/a       | 10    | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)             | BY-AP-MW-15 | 58         | 4/3/2023 | 285     | Yes  | 80   | n/a     | n/a       | 10    | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)             | BY-AP-MW-16 | 58         | 4/5/2023 | 327     | Yes  | 80   | n/a     | n/a       | 10    | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)             | BY-AP-MW-4  | 58         | 4/4/2023 | 76.7    | Yes  | 80   | n/a     | n/a       | 10    | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)             | BY-AP-MW-5  | 58         | 4/4/2023 | 151     | Yes  | 80   | n/a     | n/a       | 10    | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)             | BY-AP-MW-7  | 58         | 4/3/2023 | 198     | Yes  | 80   | n/a     | n/a       | 10    | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)             | BY-AP-MW-8  | 58         | 4/3/2023 | 107     | Yes  | 80   | n/a     | n/a       | 10    | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)             | BY-AP-MW-9  | 58         | 4/4/2023 | 317     | Yes  | 80   | n/a     | n/a       | 10    | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |

# Interwell Prediction Limits - All Results

Plant Barry    Client: Southern Company    Data: Barry Ash Pond    Printed 6/7/2023, 12:09 AM

| Constituent            | Well        | Upper Lim. | Date     | Observ.  | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs  | ND Adj. | Transform | Alpha     | Method                      |
|------------------------|-------------|------------|----------|----------|------|------|---------|-----------|-------|---------|-----------|-----------|-----------------------------|
| Boron, total (mg/L)    | BY-AP-MW-1  | 0.188      | 4/3/2023 | 2.04     | Yes  | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Boron, total (mg/L)    | BY-AP-MW-10 | 0.188      | 4/3/2023 | 2.22     | Yes  | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Boron, total (mg/L)    | BY-AP-MW-11 | 0.188      | 4/4/2023 | 0.0581J  | No   | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Boron, total (mg/L)    | BY-AP-MW-12 | 0.188      | 4/4/2023 | 0.0629J  | No   | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Boron, total (mg/L)    | BY-AP-MW-13 | 0.188      | 4/4/2023 | 0.0391J  | No   | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Boron, total (mg/L)    | BY-AP-MW-14 | 0.188      | 4/5/2023 | 0.0587J  | No   | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Boron, total (mg/L)    | BY-AP-MW-15 | 0.188      | 4/3/2023 | 0.0713J  | No   | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Boron, total (mg/L)    | BY-AP-MW-16 | 0.188      | 4/5/2023 | 2.29     | Yes  | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Boron, total (mg/L)    | BY-AP-MW-2  | 0.188      | 4/3/2023 | 0.1015ND | No   | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Boron, total (mg/L)    | BY-AP-MW-3  | 0.188      | 4/4/2023 | 0.0468J  | No   | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Boron, total (mg/L)    | BY-AP-MW-4  | 0.188      | 4/4/2023 | 0.1015ND | No   | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Boron, total (mg/L)    | BY-AP-MW-5  | 0.188      | 4/4/2023 | 0.0381J  | No   | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Boron, total (mg/L)    | BY-AP-MW-6  | 0.188      | 4/4/2023 | 0.1015ND | No   | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Boron, total (mg/L)    | BY-AP-MW-7  | 0.188      | 4/3/2023 | 0.174    | No   | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Boron, total (mg/L)    | BY-AP-MW-8  | 0.188      | 4/3/2023 | 0.129    | No   | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Boron, total (mg/L)    | BY-AP-MW-9  | 0.188      | 4/4/2023 | 1.65     | Yes  | 79   | n/a     | n/a       | 79.75 | n/a     | n/a       | 0.0003032 | NP Inter (NDs) 1 of 2       |
| Calcium, total (mg/L)  | BY-AP-MW-1  | 2.143      | 4/3/2023 | 36.9     | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-10 | 2.143      | 4/3/2023 | 48.8     | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-11 | 2.143      | 4/4/2023 | 26.6     | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-12 | 2.143      | 4/4/2023 | 23.3     | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-13 | 2.143      | 4/4/2023 | 47.7     | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-14 | 2.143      | 4/5/2023 | 9.78     | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-15 | 2.143      | 4/3/2023 | 6.76     | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-16 | 2.143      | 4/5/2023 | 11.4     | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-2  | 2.143      | 4/3/2023 | 1.79     | No   | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-3  | 2.143      | 4/4/2023 | 1.29     | No   | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-4  | 2.143      | 4/4/2023 | 3.36     | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-5  | 2.143      | 4/4/2023 | 8.36     | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-6  | 2.143      | 4/4/2023 | 1.94     | No   | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-7  | 2.143      | 4/3/2023 | 3.52     | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-8  | 2.143      | 4/3/2023 | 4.21     | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Calcium, total (mg/L)  | BY-AP-MW-9  | 2.143      | 4/4/2023 | 32.4     | Yes  | 80   | 1.495   | 0.3096    | 0     | None    | No        | 0.0004702 | Param Inter 1 of 2          |
| Chloride, Total (mg/L) | BY-AP-MW-1  | 9.9        | 4/3/2023 | 23.7     | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-10 | 9.9        | 4/3/2023 | 29.7     | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-11 | 9.9        | 4/4/2023 | 28.9     | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-12 | 9.9        | 4/4/2023 | 25       | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-13 | 9.9        | 4/4/2023 | 14.3     | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-14 | 9.9        | 4/5/2023 | 47       | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-15 | 9.9        | 4/3/2023 | 91.5     | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-16 | 9.9        | 4/5/2023 | 21.8     | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-2  | 9.9        | 4/3/2023 | 7.35     | No   | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-3  | 9.9        | 4/4/2023 | 9.66     | No   | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-4  | 9.9        | 4/4/2023 | 32.4     | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-5  | 9.9        | 4/4/2023 | 17.2     | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-6  | 9.9        | 4/4/2023 | 7.81     | No   | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-7  | 9.9        | 4/3/2023 | 59.4     | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-8  | 9.9        | 4/3/2023 | 10.8     | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | BY-AP-MW-9  | 9.9        | 4/4/2023 | 18       | Yes  | 80   | n/a     | n/a       | 0     | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| Fluoride, total (mg/L) | BY-AP-MW-1  | 0.125      | 4/3/2023 | 0.0717J  | No   | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-10 | 0.125      | 4/3/2023 | 0.125ND  | No   | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-11 | 0.125      | 4/4/2023 | 0.126    | Yes  | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-12 | 0.125      | 4/4/2023 | 0.081J   | No   | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-13 | 0.125      | 4/4/2023 | 0.187    | Yes  | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-14 | 0.125      | 4/5/2023 | 0.127    | Yes  | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-15 | 0.125      | 4/3/2023 | 0.26     | Yes  | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-16 | 0.125      | 4/5/2023 | 0.144    | Yes  | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-2  | 0.125      | 4/3/2023 | 0.125ND  | No   | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-3  | 0.125      | 4/4/2023 | 0.125ND  | No   | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-4  | 0.125      | 4/4/2023 | 0.125ND  | No   | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-5  | 0.125      | 4/4/2023 | 0.0631J  | No   | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-6  | 0.125      | 4/4/2023 | 0.125ND  | No   | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-7  | 0.125      | 4/3/2023 | 0.171    | Yes  | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-8  | 0.125      | 4/3/2023 | 0.0706J  | No   | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| Fluoride, total (mg/L) | BY-AP-MW-9  | 0.125      | 4/4/2023 | 0.0797J  | No   | 84   | n/a     | n/a       | 59.52 | n/a     | n/a       | 0.0002707 | NP Inter (NDs) 1 of 2       |
| TDS (mg/L)             | BY-AP-MW-1  | 58         | 4/3/2023 | 400      | Yes  | 80   | n/a     | n/a       | 10    | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)             | BY-AP-MW-10 | 58         | 4/3/2023 | 370      | Yes  | 80   | n/a     | n/a       | 10    | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)             | BY-AP-MW-11 | 58         | 4/4/2023 | 392      | Yes  | 80   | n/a     | n/a       | 10    | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)             | BY-AP-MW-12 | 58         | 4/4/2023 | 334      | Yes  | 80   | n/a     | n/a       | 10    | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |

# Interwell Prediction Limits - All Results

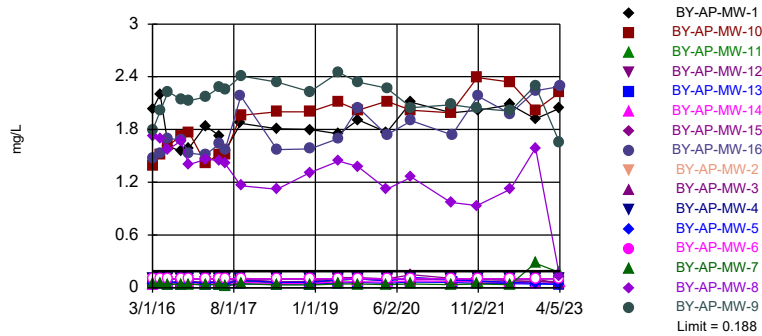
Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 6/7/2023, 12:09 AM

| Constituent | Well        | Upper Lim. | Date     | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha     | Method                      |
|-------------|-------------|------------|----------|---------|------|------|---------|-----------|------|---------|-----------|-----------|-----------------------------|
| TDS (mg/L)  | BY-AP-MW-13 | 58         | 4/4/2023 | 220     | Yes  | 80   | n/a     | n/a       | 10   | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)  | BY-AP-MW-14 | 58         | 4/5/2023 | 316     | Yes  | 80   | n/a     | n/a       | 10   | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)  | BY-AP-MW-15 | 58         | 4/3/2023 | 285     | Yes  | 80   | n/a     | n/a       | 10   | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)  | BY-AP-MW-16 | 58         | 4/5/2023 | 327     | Yes  | 80   | n/a     | n/a       | 10   | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)  | BY-AP-MW-2  | 58         | 4/3/2023 | 40.7    | No   | 80   | n/a     | n/a       | 10   | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)  | BY-AP-MW-3  | 58         | 4/4/2023 | 43.3    | No   | 80   | n/a     | n/a       | 10   | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)  | BY-AP-MW-4  | 58         | 4/4/2023 | 76.7    | Yes  | 80   | n/a     | n/a       | 10   | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)  | BY-AP-MW-5  | 58         | 4/4/2023 | 151     | Yes  | 80   | n/a     | n/a       | 10   | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)  | BY-AP-MW-6  | 58         | 4/4/2023 | 40      | No   | 80   | n/a     | n/a       | 10   | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)  | BY-AP-MW-7  | 58         | 4/3/2023 | 198     | Yes  | 80   | n/a     | n/a       | 10   | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)  | BY-AP-MW-8  | 58         | 4/3/2023 | 107     | Yes  | 80   | n/a     | n/a       | 10   | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |
| TDS (mg/L)  | BY-AP-MW-9  | 58         | 4/4/2023 | 317     | Yes  | 80   | n/a     | n/a       | 10   | n/a     | n/a       | 0.0002946 | NP Inter (normality) 1 of 2 |

Sanitas™ v.10.0.02 . UG  
Hollow symbols indicate censored values.

Exceeds Limit: BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-16, BY-AP-MW-9

Prediction Limit  
Interwell Non-parametric



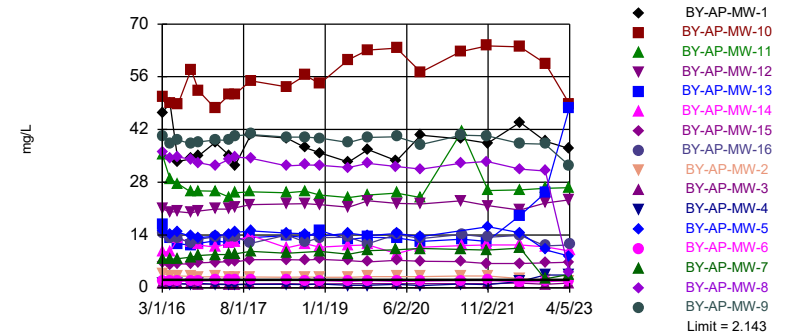
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 79 background values. 79.75% NDs. Annual per-constituent alpha = 0.009658. Individual comparison alpha = 0.0003032 (1 of 2). Comparing 16 points to limit.

Constituent: Boron, total Analysis Run 6/7/2023 12:08 AM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.10.0.02 . UG

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



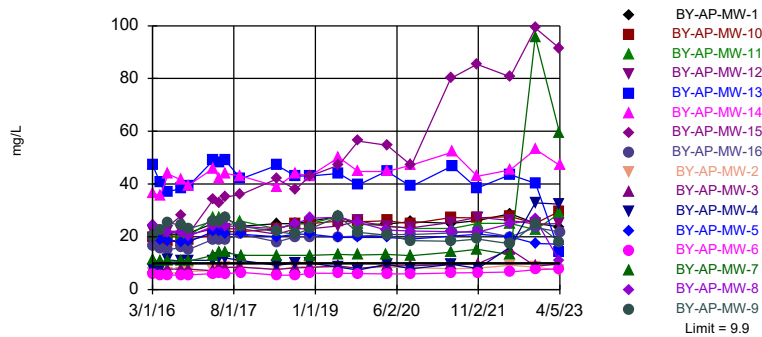
Background Data Summary: Mean=1.495, Std. Dev.=0.3096, n=80. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9714, critical = 0.957. Kappa = 2.094 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0004702. Comparing 16 points to limit.

Constituent: Calcium, total Analysis Run 6/7/2023 12:08 AM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.10.0.02 . UG

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



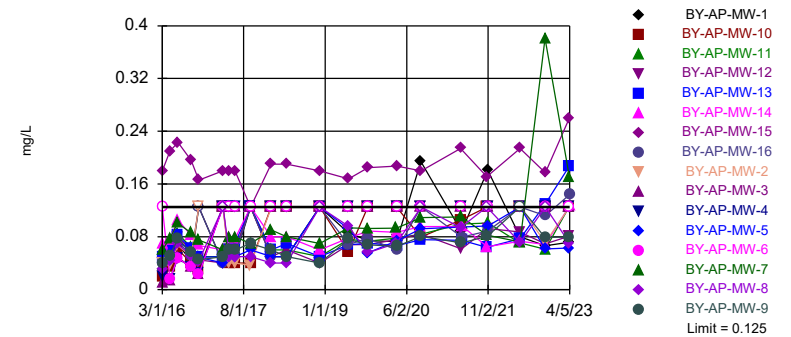
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 80 background values. Annual per-constituent alpha = 0.009386. Individual comparison alpha = 0.0002946 (1 of 2). Comparing 16 points to limit.

Constituent: Chloride, Total Analysis Run 6/7/2023 12:08 AM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.10.0.02 . UG

Exceeds Limit: BY-AP-MW-11, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, BY-AP-MW-16, BY-AP-MW-7

Prediction Limit  
Interwell Non-parametric

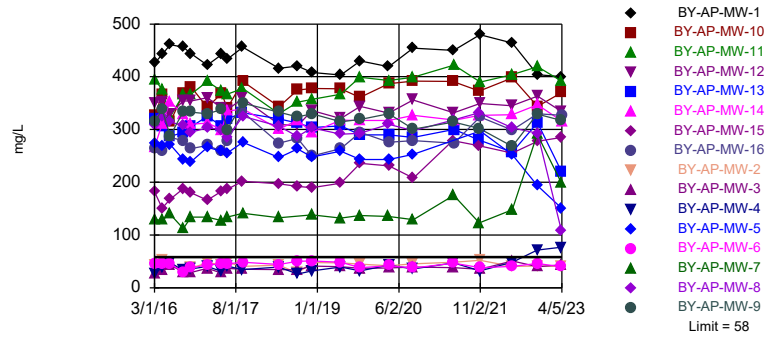


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 84 background values. 59.52% NDs. Annual per-constituent alpha = 0.008626. Individual comparison alpha = 0.0002707 (1 of 2). Comparing 16 points to limit.

Constituent: Fluoride, total Analysis Run 6/7/2023 12:08 AM View: All  
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 80 background values. 10% NDs. Annual per-constituent alpha = 0.009386. Individual comparison alpha = 0.0002946 (1 of 2). Comparing 16 points to limit.

Constituent: TDS Analysis Run 6/7/2023 12:08 AM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond

# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 6/7/2023 12:09 AM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-1 (bg) | BY-AP-MW-4 | BY-AP-MW-10 | BY-AP-MW-5 | BY-AP-MW-6 | BY-AP-MW-7 |
|------------|-----------------|-----------------|-----------------|-----------------|------------|-------------|------------|------------|------------|
| 2/23/2016  | <0.1015         | 0.0257 (J)      | 0.0252 (J)      | 0.0212 (J)      |            |             |            |            |            |
| 3/1/2016   |                 |                 |                 |                 | <0.1015    | 1.39        | 0.0462 (J) | <0.1015    | 0.0546 (J) |
| 3/2/2016   |                 |                 |                 |                 |            |             |            |            |            |
| 4/19/2016  | <0.1015         | <0.1015         | <0.1015         | <0.1015         | <0.1015    |             |            | <0.1015    |            |
| 4/20/2016  |                 |                 |                 |                 |            | 1.51        | 0.0719 (J) |            | 0.0472 (J) |
| 6/6/2016   |                 | <0.1015         |                 | <0.1015         |            |             |            |            |            |
| 6/7/2016   | <0.1015         |                 | 0.0202 (J)      |                 | <0.1015    |             | 0.0591 (J) | <0.1015    | 0.0417 (J) |
| 6/8/2016   |                 |                 |                 |                 |            | 1.62        |            |            |            |
| 8/30/2016  | <0.1015         | <0.1015         | <0.1015         | <0.1015         | <0.1015    |             | 0.0675 (J) | <0.1015    |            |
| 8/31/2016  |                 |                 |                 |                 |            | 1.73        |            |            | 0.036 (J)  |
| 10/18/2016 | <0.1015         | 0.022 (J)       | <0.1015         | <0.1015         |            |             | 0.0699 (J) |            |            |
| 10/19/2016 |                 |                 |                 |                 | <0.1015    | 1.77        |            | <0.1015    | 0.0386 (J) |
| 1/31/2017  | <0.1015         | <0.1015         | <0.1015         | <0.1015         | <0.1015    |             | 0.0518 (J) | <0.1015    | 0.0343 (J) |
| 2/1/2017   |                 |                 |                 |                 |            | 1.42        |            |            |            |
| 5/2/2017   | <0.1015         | <0.1015         | <0.1015         | <0.1015         | <0.1015    |             |            |            |            |
| 5/3/2017   |                 |                 |                 |                 |            | 1.52        | 0.0737 (J) | <0.1015    | 0.037 (J)  |
| 6/6/2017   | <0.1015         | <0.1015         | <0.1015         | <0.1015         | <0.1015    |             |            |            |            |
| 6/7/2017   |                 |                 |                 |                 |            | 1.52        | 0.0518 (J) | <0.1015    | 0.0227 (J) |
| 9/12/2017  |                 | <0.1015         |                 |                 | <0.1015    |             |            |            |            |
| 9/13/2017  | <0.1015         |                 | <0.1015         | <0.1015         |            |             |            |            |            |
| 9/14/2017  |                 |                 |                 |                 |            | 1.96        | 0.0825 (J) | <0.1015    | 0.0471 (J) |
| 5/1/2018   | <0.1015         | <0.1015         | <0.1015         |                 | <0.1015    |             |            |            |            |
| 5/2/2018   |                 |                 |                 | 0.0362 (J)      |            | 2           | 0.0603 (J) | <0.1015    | 0.0313 (J) |
| 11/26/2018 |                 | <0.1015         |                 |                 |            |             |            |            |            |
| 11/27/2018 | <0.1015         |                 |                 | 0.11            | <0.1015    |             | 0.0613 (J) |            |            |
| 11/28/2018 |                 |                 |                 |                 |            | 2           |            | <0.1015    | 0.0311 (J) |
| 5/28/2019  |                 | <0.1015         |                 |                 |            |             |            |            |            |
| 5/29/2019  | <0.1015         |                 | <0.1015         | 0.188           | <0.1015    |             | 0.0946 (J) | <0.1015    | 0.042 (J)  |
| 5/30/2019  |                 |                 |                 |                 |            | 2.11        |            |            |            |
| 9/30/2019  |                 |                 |                 |                 |            | 2.02        |            |            | 0.0418 (J) |
| 10/1/2019  |                 |                 |                 |                 | <0.1015    |             | 0.103      | <0.1015    |            |
| 10/2/2019  | <0.1015         | <0.1015         | <0.1015         | 0.097 (J)       |            |             |            |            |            |
| 3/30/2020  |                 |                 |                 |                 |            |             |            |            | 0.0369 (J) |
| 3/31/2020  | <0.1015         | <0.1015         | <0.1015         | 0.157           | <0.1015    | 2.12        | 0.0782 (J) | <0.1015    |            |
| 4/1/2020   |                 |                 |                 |                 |            |             |            |            |            |
| 8/31/2020  |                 |                 |                 |                 |            |             |            |            |            |
| 9/1/2020   |                 |                 |                 |                 | <0.1015    | 2.02        | 0.115      |            |            |
| 9/2/2020   |                 |                 |                 |                 |            |             |            | <0.1015    | 0.042 (J)  |
| 9/8/2020   |                 | <0.1015         |                 |                 |            |             |            |            |            |
| 9/9/2020   | <0.1015         |                 | <0.1015         | 0.0999 (J)      |            |             |            |            |            |
| 5/11/2021  | <0.1015         | <0.1015         | <0.1015         |                 |            | 1.99        |            |            |            |
| 5/12/2021  |                 |                 |                 | 0.0841 (J)      |            |             |            |            |            |
| 5/17/2021  |                 |                 |                 |                 |            |             |            | <0.1015    |            |
| 5/18/2021  |                 |                 |                 |                 | <0.1015    |             |            |            | 0.037 (J)  |
| 5/19/2021  |                 |                 |                 |                 |            |             |            |            |            |
| 5/25/2021  |                 |                 |                 |                 |            |             |            |            |            |
| 10/18/2021 | <0.1015         | <0.1015         |                 |                 |            |             |            |            |            |
| 10/19/2021 |                 |                 | <0.1015         | 0.0708 (J)      |            |             |            |            |            |
| 10/26/2021 |                 |                 |                 |                 |            |             |            |            |            |
| 10/27/2021 |                 |                 |                 |                 |            | 2.39        |            |            | 0.0427 (J) |
| 11/1/2021  |                 |                 |                 |                 | <0.1015    |             |            |            |            |
| 11/2/2021  |                 |                 |                 |                 |            |             | 0.0755 (J) | <0.1015    |            |



# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 6/7/2023 12:09 AM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-UP-MW-2 (bg) | BY-UP-MW-1 (bg) | BY-AP-MW-4 | BY-AP-MW-10 | BY-AP-MW-5 | BY-AP-MW-6 | BY-AP-MW-7 |
|------------|-----------------|-----------------|-----------------|-----------------|------------|-------------|------------|------------|------------|
| 5/23/2022  |                 |                 |                 |                 |            |             |            |            |            |
| 5/24/2022  |                 |                 |                 |                 |            | 2.34        |            |            | 0.0369 (J) |
| 5/25/2022  |                 |                 |                 |                 | <0.1015    |             | 0.063 (J)  | <0.1015    |            |
| 5/31/2022  | <0.1015         | <0.1015         | <0.1015         | 0.0567 (J)      |            |             |            |            |            |
| 10/31/2022 |                 |                 |                 |                 | <0.1015    |             | 0.0515 (J) | <0.1015    | 0.28       |
| 11/1/2022  | <0.1015         | <0.1015         | <0.1015         | 0.0501 (J)      |            |             |            |            |            |
| 11/2/2022  |                 |                 |                 |                 |            | 2.02        |            |            |            |
| 4/3/2023   |                 |                 |                 |                 |            | 2.22        |            |            | 0.174      |
| 4/4/2023   |                 |                 |                 |                 | <0.1015    |             | 0.0381 (J) | <0.1015    |            |
| 4/5/2023   |                 |                 |                 |                 |            |             |            |            |            |
| 4/12/2023  | <0.1015         | <0.1015         | <0.1015         | 0.0464 (J)      |            |             |            |            |            |

# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 6/7/2023 12:09 AM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-11 | BY-AP-MW-9 | BY-AP-MW-8 | BY-AP-MW-2 | BY-AP-MW-13 | BY-AP-MW-14 | BY-AP-MW-15 | BY-AP-MW-16 | BY-AP-MW-1 |
|------------|-------------|------------|------------|------------|-------------|-------------|-------------|-------------|------------|
| 2/23/2016  |             |            |            |            |             |             |             |             |            |
| 3/1/2016   | 0.0482 (J)  | 1.79       | 1.72       |            |             |             |             |             |            |
| 3/2/2016   |             |            |            | <0.1015    | 0.0328 (J)  | 0.0395 (J)  | 0.0447 (J)  | 1.47        | 2.03       |
| 4/19/2016  |             |            |            | <0.1015    |             |             | 0.0645 (J)  | 1.53        | 2.2        |
| 4/20/2016  | 0.059 (J)   | 2.01       | 1.7        |            | 0.0434 (J)  | 0.0549 (J)  |             |             |            |
| 6/6/2016   |             |            |            |            |             |             |             |             |            |
| 6/7/2016   |             |            | 1.57       |            |             |             |             |             |            |
| 6/8/2016   | 0.0568 (J)  | 2.23       |            | <0.1015    | 0.0391 (J)  | 0.0593 (J)  | 0.0592 (J)  | 1.7         | 1.61       |
| 8/30/2016  |             |            | 1.67       |            |             | 0.0534 (J)  |             |             |            |
| 8/31/2016  | 0.0651 (J)  | 2.14       |            | <0.1015    | 0.0401 (J)  |             | 0.0632 (J)  | 1.68        | 1.55       |
| 10/18/2016 |             |            | 1.4        |            |             | 0.0597 (J)  |             |             |            |
| 10/19/2016 | 0.06 (J)    | 2.13       |            | <0.1015    | 0.0427 (J)  |             | 0.0637 (J)  | 1.53        | 1.59       |
| 1/31/2017  |             |            | 1.46       | <0.1015    | 0.034 (J)   | 0.0479 (J)  | 0.0536 (J)  | 1.51        | 1.84       |
| 2/1/2017   | 0.0638 (J)  | 2.17       |            |            |             |             |             |             |            |
| 5/2/2017   |             |            |            | <0.1015    |             | 0.0587 (J)  | 0.0775 (J)  | 1.64        | 1.73       |
| 5/3/2017   | 0.0655 (J)  | 2.28       | 1.45       |            | 0.0416 (J)  |             |             |             |            |
| 6/6/2017   |             |            |            | <0.1015    |             | 0.0428 (J)  | 0.0535 (J)  | 1.57        | 1.56       |
| 6/7/2017   | 0.0468 (J)  | 2.25       | 1.41       |            | 0.0277 (J)  |             |             |             |            |
| 9/12/2017  |             |            |            | <0.1015    |             |             |             |             |            |
| 9/13/2017  | 0.0751 (J)  |            |            |            | 0.044 (J)   | 0.0647 (J)  | 0.0937 (J)  | 2.18        | 1.87       |
| 9/14/2017  |             | 2.41       | 1.16       |            |             |             |             |             |            |
| 5/1/2018   |             |            |            | <0.1015    |             |             | 0.0683 (J)  | 1.57        | 1.81       |
| 5/2/2018   | 0.0545 (J)  | 2.34       | 1.12       |            | 0.0393 (J)  | 0.0484 (J)  |             |             |            |
| 11/26/2018 |             |            |            |            |             |             |             |             |            |
| 11/27/2018 |             |            | 1.31       | <0.1015    |             | 0.0493 (J)  | 0.0715 (J)  | 1.58        |            |
| 11/28/2018 | 0.0545 (J)  | 2.23       |            |            | 0.0417 (J)  |             |             |             | 1.8        |
| 5/28/2019  |             |            |            |            |             |             |             |             |            |
| 5/29/2019  | 0.082 (J)   |            | 1.44       | <0.1015    | 0.0528 (J)  | 0.0682 (J)  | 0.116       | 1.7         | 1.75       |
| 5/30/2019  |             | 2.45       |            |            |             |             |             |             |            |
| 9/30/2019  | 0.103       | 2.34       | 1.38       |            |             |             |             |             |            |
| 10/1/2019  |             |            |            | <0.1015    | 0.0604 (J)  | 0.0701 (J)  | 0.116       | 2.05        | 1.91       |
| 10/2/2019  |             |            |            |            |             |             |             |             |            |
| 3/30/2020  |             |            | 1.12       |            |             |             |             |             | 1.77       |
| 3/31/2020  | 0.0815 (J)  | 2.27       |            | <0.1015    | 0.0505 (J)  | 0.0655 (J)  |             | 1.74        |            |
| 4/1/2020   |             |            |            |            |             |             | 0.1         |             |            |
| 8/31/2020  |             |            |            | <0.1015    |             |             |             |             |            |
| 9/1/2020   | 0.104       |            |            |            | 0.0642 (J)  |             |             |             | 2.11       |
| 9/2/2020   |             | 2.05       | 1.26       |            |             | 0.0789 (J)  | 0.148       | 1.9         |            |
| 9/8/2020   |             |            |            |            |             |             |             |             |            |
| 9/9/2020   |             |            |            |            |             |             |             |             |            |
| 5/11/2021  |             |            | 0.971      |            |             |             | 0.109       |             |            |
| 5/12/2021  |             |            |            |            |             |             |             |             |            |
| 5/17/2021  |             |            |            |            |             |             |             |             |            |
| 5/18/2021  |             | 2.08       |            | <0.1015    |             |             |             |             | 1.99       |
| 5/19/2021  | 0.0856 (J)  |            |            |            | 0.0604 (J)  |             |             | 1.74        |            |
| 5/25/2021  |             |            |            |            |             | 0.074 (J)   |             |             |            |
| 10/18/2021 |             |            |            |            |             |             |             |             |            |
| 10/19/2021 |             |            |            |            |             |             |             |             |            |
| 10/26/2021 |             |            | 0.933      |            | 0.0511 (J)  |             | 0.0953 (J)  |             |            |
| 10/27/2021 |             | 2.04       |            |            |             | 0.0677 (J)  |             |             |            |
| 11/1/2021  |             |            |            | <0.1015    |             |             |             | 2.18        | 2.02       |
| 11/2/2021  | 0.0691 (J)  |            |            |            |             |             |             |             |            |

# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 6/7/2023 12:09 AM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-11 | BY-AP-MW-9 | BY-AP-MW-8 | BY-AP-MW-2 | BY-AP-MW-13 | BY-AP-MW-14 | BY-AP-MW-15 | BY-AP-MW-16 | BY-AP-MW-1 |
|------------|-------------|------------|------------|------------|-------------|-------------|-------------|-------------|------------|
| 5/23/2022  | 0.0558 (J)  |            |            |            |             |             |             |             |            |
| 5/24/2022  |             | 2.01       | 1.12       | <0.1015    | 0.0457 (J)  |             |             |             | 2.08       |
| 5/25/2022  |             |            |            |            |             | 0.0618 (J)  | 0.0826 (J)  | 1.98        |            |
| 5/31/2022  |             |            |            |            |             |             |             |             |            |
| 10/31/2022 |             | 2.3        |            |            |             |             |             |             |            |
| 11/1/2022  | 0.0727 (J)  |            |            |            | 0.0445 (J)  | 0.0519 (J)  | 0.0712 (J)  | 2.24        |            |
| 11/2/2022  |             |            | 1.59       | <0.1015    |             |             |             |             | 1.92       |
| 4/3/2023   |             |            | 0.129      | <0.1015    |             |             | 0.0713 (J)  |             | 2.04       |
| 4/4/2023   | 0.0581 (J)  | 1.65       |            |            | 0.0391 (J)  |             |             |             |            |
| 4/5/2023   |             |            |            |            |             | 0.0587 (J)  |             | 2.29        |            |
| 4/12/2023  |             |            |            |            |             |             |             |             |            |

# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 6/7/2023 12:09 AM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-3 | BY-AP-MW-12 |
|------------|------------|-------------|
| 2/23/2016  |            |             |
| 3/1/2016   |            |             |
| 3/2/2016   | <0.1015    | 0.0502 (J)  |
| 4/19/2016  | <0.1015    |             |
| 4/20/2016  |            | 0.0672 (J)  |
| 6/6/2016   |            |             |
| 6/7/2016   | <0.1015    |             |
| 6/8/2016   |            | 0.0659 (J)  |
| 8/30/2016  |            |             |
| 8/31/2016  | <0.1015    | 0.065 (J)   |
| 10/18/2016 |            |             |
| 10/19/2016 | <0.1015    | 0.0721 (J)  |
| 1/31/2017  | <0.1015    |             |
| 2/1/2017   |            | 0.06 (J)    |
| 5/2/2017   | <0.1015    |             |
| 5/3/2017   |            | 0.0768 (J)  |
| 6/6/2017   | <0.1015    |             |
| 6/7/2017   |            | 0.0625 (J)  |
| 9/12/2017  | <0.1015    |             |
| 9/13/2017  |            | 0.0926 (J)  |
| 9/14/2017  |            |             |
| 5/1/2018   | <0.1015    |             |
| 5/2/2018   |            | 0.064 (J)   |
| 11/26/2018 |            |             |
| 11/27/2018 | <0.1015    |             |
| 11/28/2018 |            | 0.064 (J)   |
| 5/28/2019  |            |             |
| 5/29/2019  | <0.1015    | 0.0952 (J)  |
| 5/30/2019  |            |             |
| 9/30/2019  |            |             |
| 10/1/2019  | <0.1015    | 0.0967 (J)  |
| 10/2/2019  |            |             |
| 3/30/2020  |            |             |
| 3/31/2020  | <0.1015    | 0.0856 (J)  |
| 4/1/2020   |            |             |
| 8/31/2020  |            |             |
| 9/1/2020   | <0.1015    | 0.115       |
| 9/2/2020   |            |             |
| 9/8/2020   |            |             |
| 9/9/2020   |            |             |
| 5/11/2021  |            |             |
| 5/12/2021  |            |             |
| 5/17/2021  |            |             |
| 5/18/2021  | <0.1015    | 0.0927 (J)  |
| 5/19/2021  |            |             |
| 5/25/2021  |            |             |
| 10/18/2021 |            |             |
| 10/19/2021 |            |             |
| 10/26/2021 |            |             |
| 10/27/2021 |            |             |
| 11/1/2021  | <0.1015    | 0.0769 (J)  |
| 11/2/2021  |            |             |

# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 6/7/2023 12:09 AM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | BY-AP-MW-3 | BY-AP-MW-12 |
|------------|------------|-------------|
| 5/23/2022  |            | 0.0626 (J)  |
| 5/24/2022  |            |             |
| 5/25/2022  | <0.1015    |             |
| 5/31/2022  |            |             |
| 10/31/2022 |            |             |
| 11/1/2022  | <0.1015    | 0.0777 (J)  |
| 11/2/2022  |            |             |
| 4/3/2023   |            |             |
| 4/4/2023   | 0.0468 (J) | 0.0629 (J)  |
| 4/5/2023   |            |             |
| 4/12/2023  |            |             |

# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 6/7/2023 12:09 AM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-AP-MW-10 | BY-AP-MW-7 | BY-AP-MW-6 | BY-AP-MW-9 | BY-AP-MW-11 |
|------------|-----------------|-----------------|-----------------|-----------------|-------------|------------|------------|------------|-------------|
| 2/23/2016  | 1.77            | 1.42            | 1.28            | 1.11            |             |            |            |            |             |
| 3/1/2016   |                 |                 |                 |                 | 50.6        | 7.65       | 1.87       | 40.3       | 35.3        |
| 3/2/2016   |                 |                 |                 |                 |             |            |            |            |             |
| 4/19/2016  | 1.68            | 1.31            | 1.19            | 1.09            |             |            | 1.69       |            |             |
| 4/20/2016  |                 |                 |                 |                 | 49.1        | 7.54       |            | 38.2       | 28.9        |
| 6/6/2016   |                 | 1.35            | 1.19            |                 |             |            |            |            |             |
| 6/7/2016   | 1.68            |                 |                 | 1.16            |             | 7.71       | 1.75       |            |             |
| 6/8/2016   |                 |                 |                 |                 | 48.7        |            |            | 39.2       | 27.6        |
| 8/30/2016  | 1.62            | 1.31            | 1.11            | 1.08            |             |            | 1.77       |            |             |
| 8/31/2016  |                 |                 |                 |                 | 57.9        | 8.1        |            | 38.2       | 25.4        |
| 10/18/2016 | 1.53            | 1.22            | 1.04            | 1.03            |             |            |            |            |             |
| 10/19/2016 |                 |                 |                 |                 | 52.2        | 8.59       | 1.8        | 38.7       | 25.7        |
| 1/31/2017  | 1.65            | 1.36            | 1.19            | 1.23            |             | 8.78       | 1.98       |            |             |
| 2/1/2017   |                 |                 |                 |                 | 47.6        |            |            | 39.2       | 25.6        |
| 5/2/2017   | 1.58            | 1.24            | 1.05            | 1.28            |             |            |            |            |             |
| 5/3/2017   |                 |                 |                 |                 | 51.3        | 8.85       | 1.97       | 39.1       | 24          |
| 6/6/2017   | 1.55            | 1.28            | 0.978           | 1.25            |             |            |            |            |             |
| 6/7/2017   |                 |                 |                 |                 | 51.4        | 8.99       | 1.98       | 40.3       | 25.2        |
| 9/12/2017  |                 | 1.47            |                 |                 |             |            |            |            |             |
| 9/13/2017  | 1.71            |                 | 1.14            | 1.6             |             |            |            |            | 25.5        |
| 9/14/2017  |                 |                 |                 |                 | 54.9        | 9.64       | 2.14       | 40.7       |             |
| 5/1/2018   | 1.76            | 1.47            |                 | 1.58            |             |            |            |            |             |
| 5/2/2018   |                 |                 | 1.64            |                 | 53.3        | 9.14       | 2.13       | 40         | 25.2        |
| 8/28/2018  |                 |                 |                 |                 | 56.4        |            |            | 40         |             |
| 8/29/2018  |                 |                 |                 |                 |             |            | 1.92       |            | 25.6        |
| 11/26/2018 |                 | 1.52            |                 |                 |             |            |            |            |             |
| 11/27/2018 | 1.69            |                 | 2.01            | 1.49            |             |            |            |            |             |
| 11/28/2018 |                 |                 |                 |                 | 54.2        | 9.66       | 1.91       | 39.7       | 24.6        |
| 5/28/2019  |                 | 1.6             |                 |                 |             |            |            |            |             |
| 5/29/2019  | 1.74            |                 | 1.85            | 1.59            |             | 8.88       | 1.72       |            | 23.9        |
| 5/30/2019  |                 |                 |                 |                 | 60.5        |            |            | 38.5       |             |
| 9/30/2019  |                 |                 |                 |                 | 63.1        | 9.8        |            | 39.9       | 24.6        |
| 10/1/2019  |                 |                 |                 |                 |             |            | 1.92       |            |             |
| 10/2/2019  | 1.86            | 1.7             | 1.55            | 1.7             |             |            |            |            |             |
| 3/30/2020  |                 |                 |                 |                 |             | 10.1       |            |            |             |
| 3/31/2020  | 1.92            | 1.78            | 1.96            | 1.43            | 63.6        |            | 1.68       | 40.1       | 25.1        |
| 4/1/2020   |                 |                 |                 |                 |             |            |            |            |             |
| 8/31/2020  |                 |                 |                 |                 |             |            |            |            |             |
| 9/1/2020   |                 |                 |                 |                 | 57.2        |            |            |            | 23.9        |
| 9/2/2020   |                 |                 |                 |                 |             | 10.4       | 1.8        | 38         |             |
| 9/8/2020   |                 | 1.94            |                 |                 |             |            |            |            |             |
| 9/9/2020   | 1.97            |                 | 1.43            | 1.5             |             |            |            |            |             |
| 5/11/2021  | 2.06            | 1.93            |                 | 1.39            | 62.7        |            |            |            |             |
| 5/12/2021  |                 |                 | 1.34            |                 |             |            |            |            |             |
| 5/17/2021  |                 |                 |                 |                 |             |            | 1.93       |            |             |
| 5/18/2021  |                 |                 |                 |                 |             | 10.2       |            | 40.5       |             |
| 5/19/2021  |                 |                 |                 |                 |             |            |            |            | 41.5        |
| 5/25/2021  |                 |                 |                 |                 |             |            |            |            |             |
| 10/18/2021 | 2.1             | 2.01            |                 |                 |             |            |            |            |             |
| 10/19/2021 |                 |                 | 1.17            | 1.32            |             |            |            |            |             |
| 10/26/2021 |                 |                 |                 |                 |             |            |            |            |             |
| 10/27/2021 |                 |                 |                 |                 | 64.2        | 10         |            | 40.3       |             |

# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 6/7/2023 12:09 AM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-AP-MW-10 | BY-AP-MW-7 | BY-AP-MW-6 | BY-AP-MW-9 | BY-AP-MW-11 |
|------------|-----------------|-----------------|-----------------|-----------------|-------------|------------|------------|------------|-------------|
| 11/1/2021  |                 |                 |                 |                 |             |            |            |            |             |
| 11/2/2021  |                 |                 |                 |                 |             |            | 1.97       |            | 25.8        |
| 5/23/2022  |                 |                 |                 |                 |             |            |            |            | 26          |
| 5/24/2022  |                 |                 |                 |                 | 63.9        | 10.5       |            | 38.3       |             |
| 5/25/2022  |                 |                 |                 |                 |             |            | 1.62       |            |             |
| 5/31/2022  | 1.95            | 2.02            | 1.14            | 1.24            |             |            |            |            |             |
| 10/31/2022 |                 |                 |                 |                 |             | 2.36       | 1.63       | 38.099998  |             |
| 11/1/2022  | 1.94            | 1.59            | 1.01            | 1.23            |             |            |            |            | 26.4        |
| 11/2/2022  |                 |                 |                 |                 | 59.5        |            |            |            |             |
| 4/3/2023   |                 |                 |                 |                 | 48.799999   | 3.52       |            |            |             |
| 4/4/2023   |                 |                 |                 |                 |             |            | 1.94       | 32.400002  | 26.6        |
| 4/5/2023   |                 |                 |                 |                 |             |            |            |            |             |
| 4/12/2023  | 1.83            | 1.76            | 1.02            | 1.16            |             |            |            |            |             |







# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 6/7/2023 12:09 AM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-3 | BY-AP-MW-1 |
|------------|------------|------------|
| 2/23/2016  |            |            |
| 3/1/2016   |            |            |
| 3/2/2016   | 1.11       | 46.5       |
| 4/19/2016  | 1.01       | 49         |
| 4/20/2016  |            |            |
| 6/6/2016   |            |            |
| 6/7/2016   | 1.06       |            |
| 6/8/2016   |            | 33.5       |
| 8/30/2016  |            |            |
| 8/31/2016  | 0.978      | 34.2       |
| 10/18/2016 |            |            |
| 10/19/2016 | 0.906      | 35.1       |
| 1/31/2017  | 1.04       | 38.5       |
| 2/1/2017   |            |            |
| 5/2/2017   | 0.969      | 35.1       |
| 5/3/2017   |            |            |
| 6/6/2017   | 0.902      | 32.4       |
| 6/7/2017   |            |            |
| 9/12/2017  | 0.988      |            |
| 9/13/2017  |            | 40.5       |
| 9/14/2017  |            |            |
| 5/1/2018   | 1.07       | 39.7       |
| 5/2/2018   |            |            |
| 8/28/2018  | 1.02       | 37.2       |
| 8/29/2018  |            |            |
| 11/26/2018 |            |            |
| 11/27/2018 | 0.999      |            |
| 11/28/2018 |            | 35.8       |
| 5/28/2019  |            |            |
| 5/29/2019  | 1.09       | 33.4       |
| 5/30/2019  |            |            |
| 9/30/2019  |            |            |
| 10/1/2019  | 1.08       | 36.7       |
| 10/2/2019  |            |            |
| 3/30/2020  |            | 33.7       |
| 3/31/2020  | 1.1        |            |
| 4/1/2020   |            |            |
| 8/31/2020  |            |            |
| 9/1/2020   | 1.08       | 40.5       |
| 9/2/2020   |            |            |
| 9/8/2020   |            |            |
| 9/9/2020   |            |            |
| 5/11/2021  |            |            |
| 5/12/2021  |            |            |
| 5/17/2021  |            |            |
| 5/18/2021  | 1.12       | 39.5       |
| 5/19/2021  |            |            |
| 5/25/2021  |            |            |
| 10/18/2021 |            |            |
| 10/19/2021 |            |            |
| 10/26/2021 |            |            |
| 10/27/2021 |            |            |

# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 6/7/2023 12:09 AM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | BY-AP-MW-3 | BY-AP-MW-1 |
|------------|------------|------------|
| 11/1/2021  | 1.09       | 38.4       |
| 11/2/2021  |            |            |
| 5/23/2022  |            |            |
| 5/24/2022  |            | 43.9       |
| 5/25/2022  | 1.29       |            |
| 5/31/2022  |            |            |
| 10/31/2022 |            |            |
| 11/1/2022  | 0.926      |            |
| 11/2/2022  |            | 38.900002  |
| 4/3/2023   |            | 36.900002  |
| 4/4/2023   | 1.29       |            |
| 4/5/2023   |            |            |
| 4/12/2023  |            |            |

# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 6/7/2023 12:09 AM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-UP-MW-4 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-AP-MW-4 | BY-AP-MW-5 | BY-AP-MW-7 | BY-AP-MW-8 | BY-AP-MW-11 |
|------------|-----------------|-----------------|-----------------|-----------------|------------|------------|------------|------------|-------------|
| 2/23/2016  | 3.5             | 3.68            | 3.59            | 3.99            |            |            |            |            |             |
| 3/1/2016   |                 |                 |                 |                 | 7.74       | 19.7       | 11.2       | 24.5       | 21.7        |
| 3/2/2016   |                 |                 |                 |                 |            |            |            |            |             |
| 4/19/2016  | 3.63            | 3.72            | 2.89            | 4.08            | 7.66       |            |            |            |             |
| 4/20/2016  |                 |                 |                 |                 |            | 18.9       | 10.8       | 22.5       | 20.7        |
| 6/6/2016   | 3.6             |                 | 3.12            |                 |            |            |            |            |             |
| 6/7/2016   |                 | 3.66            |                 | 4.28            | 11.3       | 18.5       | 10.8       | 21.6       |             |
| 6/8/2016   |                 |                 |                 |                 |            |            |            |            | 20.4        |
| 8/30/2016  | 3.54            | 3.7             | 3.91            | 4.26            | 10.8       | 17.9       |            | 21.6       |             |
| 8/31/2016  |                 |                 |                 |                 |            |            | 10.8       |            | 20.3        |
| 10/18/2016 | 3.68            | 3.77            | 3.9             | 4.26            |            | 18.2       |            | 20.2       |             |
| 10/19/2016 |                 |                 |                 |                 | 11.1       |            | 10.8       |            | 20.3        |
| 3/20/2017  | 4.6             | 3.7             | 3.5             | 4.1             |            |            |            |            |             |
| 3/21/2017  |                 |                 |                 |                 | 11         |            |            |            |             |
| 3/22/2017  |                 |                 |                 |                 |            | 22         | 13         | 24         | 27          |
| 5/2/2017   | 3.9 (D)         | 4.6 (D)         | 3.5 (D)         | 5 (D)           | 12         |            |            |            |             |
| 5/3/2017   |                 |                 |                 |                 |            | 22         | 14         | 25         | 27          |
| 6/6/2017   | 3.4 (D)         | 3.4 (D)         | 3.1 (D)         | 3.9 (D)         | 12         |            |            |            |             |
| 6/7/2017   |                 |                 |                 |                 |            | 21         | 14         | 24         | 24          |
| 9/12/2017  | 4.3             |                 |                 |                 | 11         |            |            |            |             |
| 9/13/2017  |                 | 3.9             | 4               | 4.3             |            |            |            |            | 26          |
| 9/14/2017  |                 |                 |                 |                 |            | 21         | 13         | 24         |             |
| 5/1/2018   | 3.8             | 4.1             |                 | 3.7             | 9.2        |            |            |            |             |
| 5/2/2018   |                 |                 | 9.9             |                 |            | 20         | 13         | 23         | 23          |
| 8/28/2018  |                 |                 |                 |                 | 10         |            |            |            |             |
| 8/29/2018  |                 |                 |                 |                 |            | 21         |            | 25         | 25          |
| 11/26/2018 | 3.6             |                 |                 |                 |            |            |            |            |             |
| 11/27/2018 |                 | 3.5             | 4.7             | 3.2             | 10         | 21         |            | 27         |             |
| 11/28/2018 |                 |                 |                 |                 |            |            | 13         |            | 25          |
| 5/28/2019  | 3.6             |                 |                 |                 |            |            |            |            |             |
| 5/29/2019  |                 | 3.58            | 5.48            | 2.93            | 8.53       | 19.7       | 13.3       | 27.4       | 27.8        |
| 5/30/2019  |                 |                 |                 |                 |            |            |            |            |             |
| 9/30/2019  |                 |                 |                 |                 |            |            | 13.1       | 25.5       | 25          |
| 10/1/2019  |                 |                 |                 |                 | 7.35       | 19.8       |            |            |             |
| 10/2/2019  | 3.5             | 3.64            | 3.65            | 2.75            |            |            |            |            |             |
| 3/30/2020  |                 |                 |                 |                 |            |            | 13.3       | 22.6       |             |
| 3/31/2020  | 3.34            | 3.47            | 3.17            | 2.72            | 9.54       | 19.8       |            |            | 24.1        |
| 4/1/2020   |                 |                 |                 |                 |            |            |            |            |             |
| 8/31/2020  |                 |                 |                 |                 |            |            |            |            |             |
| 9/1/2020   |                 |                 |                 |                 | 7.82       | 19.1       |            |            | 23.2        |
| 9/2/2020   |                 |                 |                 |                 |            |            | 12.9       | 22.2       |             |
| 9/8/2020   | 3.29            |                 |                 |                 |            |            |            |            |             |
| 9/9/2020   |                 | 3.47            | 2.92            | 2.32            |            |            |            |            |             |
| 5/11/2021  | 3.33            | 3.42            |                 | 2.16            |            |            |            | 21.9       |             |
| 5/12/2021  |                 |                 | 2.18            |                 |            |            |            |            |             |
| 5/17/2021  |                 |                 |                 |                 |            |            |            |            |             |
| 5/18/2021  |                 |                 |                 |                 | 9.53       |            | 14.2       |            |             |
| 5/19/2021  |                 |                 |                 |                 |            |            |            |            | 23.1        |
| 5/25/2021  |                 |                 |                 |                 |            |            |            |            |             |
| 10/18/2021 | 3.32            | 3.45            |                 |                 |            |            |            |            |             |
| 10/19/2021 |                 |                 | 2.37            | 2.08            |            |            |            |            |             |
| 10/26/2021 |                 |                 |                 |                 |            |            | 21.7       |            |             |

# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 6/7/2023 12:09 AM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-UP-MW-4 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-AP-MW-4 | BY-AP-MW-5 | BY-AP-MW-7 | BY-AP-MW-8 | BY-AP-MW-11 |
|------------|-----------------|-----------------|-----------------|-----------------|------------|------------|------------|------------|-------------|
| 10/27/2021 |                 |                 |                 |                 |            |            | 15.3       |            |             |
| 11/1/2021  |                 |                 |                 |                 | 7.99       |            |            |            |             |
| 11/2/2021  |                 |                 |                 |                 |            | 21         |            |            | 25.1        |
| 5/23/2022  |                 |                 |                 |                 |            |            |            |            | 25.1        |
| 5/24/2022  |                 |                 |                 |                 |            |            | 13.2       | 25         |             |
| 5/25/2022  |                 |                 |                 |                 | 16.1       | 20         |            |            |             |
| 5/31/2022  | 3.31            | 3.39            | 1.93            | 2.17            |            |            |            |            |             |
| 10/31/2022 |                 |                 |                 |                 | 32.799999  | 17.5       | 95.699997  |            |             |
| 11/1/2022  | 3.3             | 3.09            | 2.37            | 2.22            |            |            |            |            | 22.700001   |
| 11/2/2022  |                 |                 |                 |                 |            |            |            | 26.6       |             |
| 4/3/2023   |                 |                 |                 |                 |            |            | 59.400002  | 10.8       |             |
| 4/4/2023   |                 |                 |                 |                 | 32.400002  | 17.200001  |            |            | 28.9        |
| 4/5/2023   |                 |                 |                 |                 |            |            |            |            |             |
| 4/12/2023  | 3.42            | 3.11            | 2.31            | 2.25            |            |            |            |            |             |

# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 6/7/2023 12:09 AM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-9 | BY-AP-MW-10 | BY-AP-MW-6 | BY-AP-MW-2 | BY-AP-MW-15 | BY-AP-MW-16 | BY-AP-MW-3 | BY-AP-MW-13 | BY-AP-MW-12 |
|------------|------------|-------------|------------|------------|-------------|-------------|------------|-------------|-------------|
| 2/23/2016  |            |             |            |            |             |             |            |             |             |
| 3/1/2016   | 20.4       | 19.6        | 5.77       |            |             |             |            |             |             |
| 3/2/2016   |            |             |            | 6.08       | 20.9        | 16.6        | 8.04       | 47.3        | 22.2        |
| 4/19/2016  |            |             | 5.57       | 6.2        | 19.8        | 15.7        | 7.6        |             |             |
| 4/20/2016  | 22.7       | 18.8        |            |            |             |             |            | 40.5        | 21.7        |
| 6/6/2016   |            |             |            |            |             |             |            |             |             |
| 6/7/2016   |            |             | 5.52       |            |             |             | 7.7        |             |             |
| 6/8/2016   | 25.3       | 18.6        |            | 6.2        | 24          | 15.1        |            | 37.2        | 22          |
| 8/30/2016  |            |             | 5.5        |            |             |             |            |             |             |
| 8/31/2016  | 24.4       | 18.5        |            | 6.51       | 28          | 15.9        | 7.7        | 38.2        | 22.3        |
| 10/18/2016 |            |             |            |            |             |             |            |             |             |
| 10/19/2016 | 23         | 18.7        | 5.55       | 6.85       | 21.3        | 15.3        | 7.73       | 39.4        | 20.8        |
| 3/20/2017  |            |             |            |            |             |             |            |             |             |
| 3/21/2017  |            |             |            | 7.2        | 34          | 19          | 7.2        |             |             |
| 3/22/2017  | 26         | 21          | 6          |            |             |             |            | 49          | 23          |
| 5/2/2017   |            |             |            | 8.3        | 33          | 19          | 8.6        |             |             |
| 5/3/2017   | 26         | 22          | 6.4        |            |             |             |            | 48          | 25          |
| 6/6/2017   |            |             |            | 8.5        | 35          | 19          | 8.3        |             |             |
| 6/7/2017   | 27         | 22          | 5.9        |            |             |             |            | 49          | 23          |
| 9/12/2017  |            |             |            | 8.6        |             |             | 8.5        |             |             |
| 9/13/2017  |            |             |            |            | 36          | 21          |            | 42          | 23          |
| 9/14/2017  | 24         | 22          | 6.5        |            |             |             |            |             |             |
| 5/1/2018   |            |             |            | 7.6        | 42          | 18          | 7.6        |             |             |
| 5/2/2018   | 22         | 23          | 5.5        |            |             |             |            | 47          | 21          |
| 8/28/2018  | 21         | 25          |            | 8.5        |             |             | 8.2        |             |             |
| 8/29/2018  |            |             | 5.4        |            | 38          | 20          |            | 43          | 23          |
| 11/26/2018 |            |             |            |            |             |             |            |             |             |
| 11/27/2018 |            |             |            | 8.8        | 43          | 20          | 8.4        |             |             |
| 11/28/2018 | 23         | 25          | 6.2        |            |             |             |            | 43          | 23          |
| 5/28/2019  |            |             |            |            |             |             |            |             |             |
| 5/29/2019  |            |             | 6.15       | 8.31       | 47.2        | 20          | 9.01       | 44          | 24.1        |
| 5/30/2019  | 27.7       | 25.9        |            |            |             |             |            |             |             |
| 9/30/2019  | 21.7       | 25.7        |            |            |             |             |            |             |             |
| 10/1/2019  |            |             | 5.99       | 8.19       | 56.3        | 20.3        | 8.05       | 39.6        | 26.1        |
| 10/2/2019  |            |             |            |            |             |             |            |             |             |
| 3/30/2020  |            |             |            |            |             |             |            |             |             |
| 3/31/2020  | 20.6       | 26.1        | 5.94       | 8.48       |             | 20.8        | 9.07       | 44.9        | 23.9        |
| 4/1/2020   |            |             |            |            | 54.7        |             |            |             |             |
| 8/31/2020  |            |             |            | 8.3        |             |             |            |             |             |
| 9/1/2020   |            | 25          |            |            |             |             | 8.97       | 39.1        | 23.4        |
| 9/2/2020   | 18.5       |             | 5.94       |            | 47          | 20.8        |            |             |             |
| 9/8/2020   |            |             |            |            |             |             |            |             |             |
| 9/9/2020   |            |             |            |            |             |             |            |             |             |
| 5/11/2021  |            | 27.3        |            |            | 80          |             |            |             |             |
| 5/12/2021  |            |             |            |            |             |             |            |             |             |
| 5/17/2021  |            |             | 6.26       |            |             |             |            |             |             |
| 5/18/2021  | 18.3       |             |            | 7.89       |             |             | 9.52       |             | 25.4        |
| 5/19/2021  |            |             |            |            |             | 21.4        |            | 46.8        |             |
| 5/25/2021  |            |             |            |            |             |             |            |             |             |
| 10/18/2021 |            |             |            |            |             |             |            |             |             |
| 10/19/2021 |            |             |            |            |             |             |            |             |             |
| 10/26/2021 |            |             |            |            | 85.4        |             |            | 38.4        |             |



# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 6/7/2023 12:09 AM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-14 | BY-AP-MW-1 |
|------------|-------------|------------|
| 2/23/2016  |             |            |
| 3/1/2016   |             |            |
| 3/2/2016   | 36.6        | 2.18 (O)   |
| 4/19/2016  |             | 9.01 (O)   |
| 4/20/2016  | 35.5        |            |
| 6/6/2016   |             |            |
| 6/7/2016   |             |            |
| 6/8/2016   | 43.8        | 21         |
| 8/30/2016  | 41.6        |            |
| 8/31/2016  |             | 21         |
| 10/18/2016 | 39.5        |            |
| 10/19/2016 |             | 21.4       |
| 3/20/2017  |             |            |
| 3/21/2017  |             | 25         |
| 3/22/2017  | 46          |            |
| 5/2/2017   | 42          | 26         |
| 5/3/2017   |             |            |
| 6/6/2017   | 44          | 27         |
| 6/7/2017   |             |            |
| 9/12/2017  |             |            |
| 9/13/2017  | 43          | 24         |
| 9/14/2017  |             |            |
| 5/1/2018   |             | 25         |
| 5/2/2018   | 39          |            |
| 8/28/2018  |             | 25         |
| 8/29/2018  | 44          |            |
| 11/26/2018 |             |            |
| 11/27/2018 | 43          |            |
| 11/28/2018 |             | 26         |
| 5/28/2019  |             |            |
| 5/29/2019  | 50.1        | 27.6       |
| 5/30/2019  |             |            |
| 9/30/2019  |             |            |
| 10/1/2019  | 44.8        | 24.6       |
| 10/2/2019  |             |            |
| 3/30/2020  |             | 24.9       |
| 3/31/2020  | 44.7        |            |
| 4/1/2020   |             |            |
| 8/31/2020  |             |            |
| 9/1/2020   |             | 25.7       |
| 9/2/2020   | 47.2        |            |
| 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  | 52.1        |            |
| 10/18/2021 |             |            |
| 10/19/2021 |             |            |
| 10/26/2021 |             |            |



# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 6/7/2023 12:09 AM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | BY-AP-MW-14 | BY-AP-MW-1 |
|------------|-------------|------------|
| 10/27/2021 | 42.9        |            |
| 11/1/2021  |             | 26.2       |
| 11/2/2021  |             |            |
| 5/23/2022  |             |            |
| 5/24/2022  |             | 28.7       |
| 5/25/2022  | 45.3        |            |
| 5/31/2022  |             |            |
| 10/31/2022 |             |            |
| 11/1/2022  | 53.099998   |            |
| 11/2/2022  |             | 25.1       |
| 4/3/2023   |             | 23.700001  |
| 4/4/2023   |             |            |
| 4/5/2023   | 47          |            |
| 4/12/2023  |             |            |

# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 6/7/2023 12:09 AM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-UP-MW-2 (bg) | BY-UP-MW-1 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-10 | BY-AP-MW-11 | BY-AP-MW-9 | BY-AP-MW-4 | BY-AP-MW-8 |
|------------|-----------------|-----------------|-----------------|-----------------|-------------|-------------|------------|------------|------------|
| 2/23/2016  | 0.02 (J)        | 0.03 (J)        | 0.02 (J)        | 0.02 (J)        |             |             |            |            |            |
| 3/1/2016   |                 |                 |                 |                 | 0.02 (J)    | 0.06 (J)    | 0.04 (J)   | 0.02 (J)   | 0.03 (J)   |
| 3/2/2016   |                 |                 |                 |                 |             |             |            |            |            |
| 4/19/2016  | 0.021 (J)       | 0.023 (J)       | 0.016 (J)       | 0.015 (J)       |             |             |            | 0.016 (J)  |            |
| 4/20/2016  |                 |                 |                 |                 | 0.034 (J)   | 0.073 (J)   | 0.052 (J)  |            | 0.043 (J)  |
| 6/6/2016   |                 | 0.062 (J)       |                 | 0.05 (J)        |             |             |            |            |            |
| 6/7/2016   | 0.06 (J)        |                 | 0.052 (J)       |                 |             |             |            | 0.047 (J)  | 0.069 (J)  |
| 6/8/2016   |                 |                 |                 |                 | 0.061 (J)   | 0.085 (J)   | 0.077 (J)  |            |            |
| 8/30/2016  | 0.05 (J)        | 0.053 (J)       | 0.038 (J)       | 0.036 (J)       |             |             |            | 0.035 (J)  | 0.052 (J)  |
| 8/31/2016  |                 |                 |                 |                 | 0.04 (J)    | 0.064 (J)   | 0.056 (J)  |            |            |
| 10/18/2016 | 0.04 (J)        | 0.042 (J)       | 0.03 (J)        | 0.025 (J)       |             |             |            |            | 0.042 (J)  |
| 10/19/2016 |                 |                 |                 |                 | 0.03 (J)    | 0.05 (J)    | 0.045 (J)  | 0.025 (J)  |            |
| 3/20/2017  | <0.125          | <0.125          | <0.125          | <0.125          |             |             |            |            |            |
| 3/21/2017  |                 |                 |                 |                 |             |             |            | <0.125     |            |
| 3/22/2017  |                 |                 |                 |                 | <0.125      | 0.05 (J)    | 0.05 (J)   |            | <0.125     |
| 5/2/2017   | 0.04 (JD)       | 0.04 (JD)       | 0.1 (D)         | 0.1 (D)         |             |             |            | <0.125     |            |
| 5/3/2017   |                 |                 |                 |                 | 0.04 (J)    | 0.06 (J)    | 0.06 (J)   |            | 0.05 (J)   |
| 6/6/2017   | 0.04 (JD)       | 0.1 (D)         | 0.1 (D)         | 0.1 (D)         |             |             |            | <0.125     |            |
| 6/7/2017   |                 |                 |                 |                 | 0.04 (J)    | 0.06 (J)    | 0.06 (J)   |            | 0.05 (J)   |
| 9/12/2017  |                 |                 |                 | <0.125          |             |             |            | <0.125     |            |
| 9/13/2017  | 0.043 (J)       | 0.04 (J)        | <0.125          |                 |             | <0.125 (U*) |            |            |            |
| 9/14/2017  |                 |                 |                 |                 | 0.04 (J)    |             | 0.07 (J)   |            | 0.05 (J)   |
| 1/22/2018  |                 |                 |                 |                 |             |             |            |            |            |
| 1/23/2018  | 0.04 (J)        | <0.125          | <0.125          | <0.125          | <0.125      | 0.06 (J)    | 0.06 (J)   |            |            |
| 1/24/2018  |                 |                 |                 |                 |             |             |            | <0.125     | 0.04 (J)   |
| 5/1/2018   | 0.04 (J)        |                 | <0.125          | <0.125          |             |             |            | <0.125     |            |
| 5/2/2018   |                 | 0.04 (J)        |                 |                 | <0.125      | 0.06 (J)    | 0.05 (J)   |            | 0.04 (J)   |
| 11/26/2018 |                 |                 |                 | <0.125          |             |             |            |            |            |
| 11/27/2018 | <0.125          | <0.125          | <0.125          |                 |             |             |            | <0.125     | <0.125     |
| 11/28/2018 |                 |                 |                 |                 | <0.125      | 0.05 (J)    | 0.04 (J)   |            |            |
| 5/28/2019  |                 |                 |                 | <0.125          |             |             |            |            |            |
| 5/29/2019  | <0.125          | 0.0502 (J)      | <0.125          |                 |             | 0.0759 (J)  |            | <0.125     | 0.0958 (J) |
| 5/30/2019  |                 |                 |                 |                 | 0.0573 (J)  |             | 0.0763 (J) |            |            |
| 9/30/2019  |                 |                 |                 |                 | <0.125      | 0.0733 (J)  | 0.0679 (J) |            | 0.0559 (J) |
| 10/1/2019  |                 |                 |                 |                 |             |             |            | <0.125     |            |
| 10/2/2019  | <0.125          | <0.125          | <0.125          | <0.125          |             |             |            |            |            |
| 3/30/2020  |                 |                 |                 |                 |             |             |            |            | 0.0701 (J) |
| 3/31/2020  | <0.125          | <0.125          | <0.125          | <0.125          | <0.125      | 0.078 (J)   | 0.0655 (J) | <0.125     |            |
| 4/1/2020   |                 |                 |                 |                 |             |             |            |            |            |
| 8/31/2020  |                 |                 |                 |                 |             |             |            |            |            |
| 9/1/2020   |                 |                 |                 |                 | 0.0794 (J)  | 0.0841 (J)  |            | <0.125     |            |
| 9/2/2020   |                 |                 |                 |                 |             |             | 0.0804 (J) |            | <0.125     |
| 9/8/2020   |                 |                 |                 | <0.125          |             |             |            |            |            |
| 9/9/2020   | <0.125          | <0.125          | <0.125          |                 |             |             |            |            |            |
| 5/11/2021  | <0.125          |                 | <0.125          | <0.125          | 0.105       |             |            |            | 0.094 (J)  |
| 5/12/2021  |                 | <0.125          |                 |                 |             |             |            |            |            |
| 5/17/2021  |                 |                 |                 |                 |             |             |            |            |            |
| 5/18/2021  |                 |                 |                 |                 |             |             | 0.0709 (J) | <0.125     |            |
| 5/19/2021  |                 |                 |                 |                 |             | 0.0994 (J)  |            |            |            |
| 5/25/2021  |                 |                 |                 |                 |             |             |            |            |            |
| 10/18/2021 |                 |                 | <0.125          | <0.125          |             |             |            |            |            |
| 10/19/2021 | <0.125          | <0.125          |                 |                 |             |             |            |            |            |

# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 6/7/2023 12:09 AM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-UP-MW-2 (bg) | BY-UP-MW-1 (bg) | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-AP-MW-10 | BY-AP-MW-11 | BY-AP-MW-9 | BY-AP-MW-4 | BY-AP-MW-8 |
|------------|-----------------|-----------------|-----------------|-----------------|-------------|-------------|------------|------------|------------|
| 10/26/2021 |                 |                 |                 |                 |             |             |            |            | <0.125     |
| 10/27/2021 |                 |                 |                 |                 | <0.125      |             | 0.0803 (J) |            |            |
| 11/1/2021  |                 |                 |                 |                 |             |             |            | <0.125     |            |
| 11/2/2021  |                 |                 |                 |                 |             | 0.101       |            |            |            |
| 5/23/2022  |                 |                 |                 |                 |             | 0.0709 (J)  |            |            |            |
| 5/24/2022  |                 |                 |                 |                 | <0.125      |             | <0.125     |            | 0.0713 (J) |
| 5/25/2022  |                 |                 |                 |                 |             |             |            | <0.125     |            |
| 5/31/2022  | <0.125          | <0.125          | <0.125          | <0.125          |             |             |            |            |            |
| 10/31/2022 |                 |                 |                 |                 |             |             | 0.0788 (J) | <0.125     |            |
| 11/1/2022  | <0.125          | <0.125          | <0.125          | <0.125          |             | 0.0612 (J)  |            |            |            |
| 11/2/2022  |                 |                 |                 |                 | <0.125      |             |            |            | <0.125     |
| 4/3/2023   |                 |                 |                 |                 | <0.125      |             |            |            | 0.0706 (J) |
| 4/4/2023   |                 |                 |                 |                 |             | 0.126       | 0.0797 (J) | <0.125     |            |
| 4/5/2023   |                 |                 |                 |                 |             |             |            |            |            |
| 4/12/2023  | <0.125          | <0.125          | <0.125          | <0.125          |             |             |            |            |            |

# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 6/7/2023 12:09 AM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-5 | BY-AP-MW-6 | BY-AP-MW-7 | BY-AP-MW-15 | BY-AP-MW-3 | BY-AP-MW-14 | BY-AP-MW-2 | BY-AP-MW-16 | BY-AP-MW-13 |
|------------|------------|------------|------------|-------------|------------|-------------|------------|-------------|-------------|
| 2/23/2016  |            |            |            |             |            |             |            |             |             |
| 3/1/2016   | 0.04 (J)   | <0.125     | 0.06 (J)   |             |            |             |            |             |             |
| 3/2/2016   |            |            |            | 0.18 (J)    | 0.01 (J)   | 0.07 (J)    | 0.04 (J)   | 0.04 (J)    | 0.05 (J)    |
| 4/19/2016  |            | 0.016 (J)  |            | 0.21 (J)    | 0.014 (J)  |             | 0.038 (J)  | 0.05 (J)    |             |
| 4/20/2016  | 0.043 (J)  |            | 0.078 (J)  |             |            | 0.076 (J)   |            |             | 0.064 (J)   |
| 6/6/2016   |            |            |            |             |            |             |            |             |             |
| 6/7/2016   | 0.075 (J)  | 0.048 (J)  | 0.101 (J)  |             | 0.049 (J)  |             |            |             |             |
| 6/8/2016   |            |            |            | 0.223 (J)   |            | 0.105 (J)   | 0.067 (J)  | 0.073 (J)   | 0.082 (J)   |
| 8/30/2016  | 0.057 (J)  | 0.034 (J)  |            |             |            | 0.083 (J)   |            |             |             |
| 8/31/2016  |            |            | 0.086 (J)  | 0.196 (J)   | 0.034 (J)  |             | 0.05 (J)   | 0.051 (J)   | 0.062 (J)   |
| 10/18/2016 | 0.049 (J)  |            |            |             |            | 0.067 (J)   |            |             |             |
| 10/19/2016 |            | 0.023 (J)  | 0.075 (J)  | 0.166 (J)   | 0.023 (J)  |             | <0.125     | <0.125      | 0.049 (J)   |
| 3/20/2017  |            |            |            |             |            |             |            |             |             |
| 3/21/2017  |            |            |            | 0.18        | <0.125     |             | <0.125     | 0.04 (J)    |             |
| 3/22/2017  | 0.04 (J)   | <0.125     | 0.06 (J)   |             |            | 0.06 (J)    |            |             | 0.05 (J)    |
| 5/2/2017   |            |            |            | 0.18        | <0.125     | 0.08 (J)    | 0.04 (J)   | 0.05 (J)    |             |
| 5/3/2017   | 0.05 (J)   | <0.125     | 0.08 (J)   |             |            |             |            |             | 0.06 (J)    |
| 6/6/2017   |            |            |            | 0.18        | <0.125     | 0.077 (J)   | 0.04 (J)   | 0.053 (J)   |             |
| 6/7/2017   | 0.05 (J)   | <0.125     | 0.08 (J)   |             |            |             |            |             | 0.07 (J)    |
| 9/12/2017  |            |            |            |             | <0.125     |             | 0.037 (J)  |             |             |
| 9/13/2017  |            |            |            | <0.125 (U*) |            | <0.125 (U*) |            | <0.125 (U*) | <0.125 (U*) |
| 9/14/2017  | 0.06 (J)   | <0.125     | 0.07 (J)   |             |            |             |            |             |             |
| 1/22/2018  |            |            |            | 0.19        |            |             |            |             | 0.06 (J)    |
| 1/23/2018  |            |            |            |             |            | 0.08 (J)    |            | 0.05 (J)    |             |
| 1/24/2018  | 0.05 (J)   | <0.125     | 0.09 (J)   |             | <0.125     |             | <0.125     |             |             |
| 5/1/2018   |            |            |            | 0.19        | <0.125     |             | <0.125     | 0.05 (J)    |             |
| 5/2/2018   | 0.05 (J)   | <0.125     | 0.08 (J)   |             |            | 0.08 (J)    |            |             | 0.07 (J)    |
| 11/26/2018 |            |            |            |             |            |             |            |             |             |
| 11/27/2018 | <0.125     |            |            | 0.18        | <0.125     | 0.06 (J)    | <0.125     | <0.125      |             |
| 11/28/2018 |            | <0.125     | 0.07 (J)   |             |            |             |            |             | 0.05 (J)    |
| 5/28/2019  |            |            |            |             |            |             |            |             |             |
| 5/29/2019  | 0.0923 (J) | <0.125     | 0.0937 (J) | 0.168       | <0.125     | 0.0781 (J)  | <0.125     | 0.0683 (J)  | 0.0679 (J)  |
| 5/30/2019  |            |            |            |             |            |             |            |             |             |
| 9/30/2019  |            |            | 0.0925 (J) |             |            |             |            |             |             |
| 10/1/2019  | 0.0557 (J) | <0.125     |            | 0.185       | <0.125     | 0.0885 (J)  | <0.125     | 0.0774 (J)  | 0.0703 (J)  |
| 10/2/2019  |            |            |            |             |            |             |            |             |             |
| 3/30/2020  |            |            | 0.0933 (J) |             |            |             |            |             |             |
| 3/31/2020  | 0.0735 (J) | <0.125     |            |             | <0.125     | 0.0867 (J)  | <0.125     | 0.0602 (J)  | 0.0665 (J)  |
| 4/1/2020   |            |            |            | 0.187       |            |             |            |             |             |
| 8/31/2020  |            |            |            |             |            |             | <0.125     |             |             |
| 9/1/2020   | 0.0921 (J) |            |            |             | <0.125     |             |            |             | 0.0757 (J)  |
| 9/2/2020   |            | <0.125     | 0.109      | 0.18        |            | 0.0957 (J)  |            | <0.125      |             |
| 9/8/2020   |            |            |            |             |            |             |            |             |             |
| 9/9/2020   |            |            |            |             |            |             |            |             |             |
| 5/11/2021  |            |            |            | 0.214       |            |             |            |             |             |
| 5/12/2021  |            |            |            |             |            |             |            |             |             |
| 5/17/2021  |            | <0.125     |            |             |            |             |            |             |             |
| 5/18/2021  |            |            | 0.11       |             | <0.125     |             | <0.125     |             |             |
| 5/19/2021  |            |            |            |             |            |             |            | 0.0793 (J)  | 0.0748 (J)  |
| 5/25/2021  |            |            |            |             |            | 0.0957 (J)  |            |             |             |
| 10/18/2021 |            |            |            |             |            |             |            |             |             |
| 10/19/2021 |            |            |            |             |            |             |            |             |             |

# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 6/7/2023 12:09 AM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-5 | BY-AP-MW-6 | BY-AP-MW-7 | BY-AP-MW-15 | BY-AP-MW-3 | BY-AP-MW-14 | BY-AP-MW-2 | BY-AP-MW-16 | BY-AP-MW-13 |
|------------|------------|------------|------------|-------------|------------|-------------|------------|-------------|-------------|
| 10/26/2021 |            |            |            | 0.171       |            |             |            |             | 0.0641 (J)  |
| 10/27/2021 |            |            | 0.0823 (J) |             |            | 0.0651 (J)  |            |             |             |
| 11/1/2021  |            |            |            |             | <0.125     |             | <0.125     | 0.0887 (J)  |             |
| 11/2/2021  | 0.0964 (J) | <0.125     |            |             |            |             |            |             |             |
| 5/23/2022  |            |            |            |             |            |             |            |             |             |
| 5/24/2022  |            |            | 0.0724 (J) |             |            |             | <0.125     |             | 0.0769 (J)  |
| 5/25/2022  | <0.125     | <0.125     |            | 0.214       | <0.125     | 0.0733 (J)  |            | <0.125      |             |
| 5/31/2022  |            |            |            |             |            |             |            |             |             |
| 10/31/2022 | 0.0614 (J) | <0.125     | 0.381      |             |            |             |            |             |             |
| 11/1/2022  |            |            |            | 0.177       | <0.125     | 0.0685 (J)  |            | 0.112 (J)   | 0.13        |
| 11/2/2022  |            |            |            |             |            |             | 0.0711 (J) |             |             |
| 4/3/2023   |            |            | 0.171      | 0.26        |            |             | <0.125     |             |             |
| 4/4/2023   | 0.0631 (J) | <0.125     |            |             | <0.125     |             |            |             | 0.187       |
| 4/5/2023   |            |            |            |             |            | 0.127       |            | 0.144       |             |
| 4/12/2023  |            |            |            |             |            |             |            |             |             |

# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 6/7/2023 12:09 AM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-1  | BY-AP-MW-12 |
|------------|-------------|-------------|
| 2/23/2016  |             |             |
| 3/1/2016   |             |             |
| 3/2/2016   | 0.03 (J)    | 0.04 (J)    |
| 4/19/2016  | 0.052 (J)   |             |
| 4/20/2016  |             | 0.059 (J)   |
| 6/6/2016   |             |             |
| 6/7/2016   |             |             |
| 6/8/2016   | 0.069 (J)   | 0.08 (J)    |
| 8/30/2016  |             |             |
| 8/31/2016  | 0.043 (J)   | 0.059 (J)   |
| 10/18/2016 |             |             |
| 10/19/2016 | <0.125      | 0.045 (J)   |
| 3/20/2017  |             |             |
| 3/21/2017  | 0.04 (J)    |             |
| 3/22/2017  |             | 0.04 (J)    |
| 5/2/2017   | 0.05 (J)    |             |
| 5/3/2017   |             | 0.06 (J)    |
| 6/6/2017   | 0.049 (J)   |             |
| 6/7/2017   |             | 0.06 (J)    |
| 9/12/2017  |             |             |
| 9/13/2017  | <0.125 (U*) | <0.125 (U*) |
| 9/14/2017  |             |             |
| 1/22/2018  |             |             |
| 1/23/2018  |             | 0.05 (J)    |
| 1/24/2018  | 0.05 (J)    |             |
| 5/1/2018   | 0.05 (J)    |             |
| 5/2/2018   |             | 0.06 (J)    |
| 11/26/2018 |             |             |
| 11/27/2018 |             |             |
| 11/28/2018 | <0.125      | 0.04 (J)    |
| 5/28/2019  |             |             |
| 5/29/2019  | 0.0858 (J)  | 0.0677 (J)  |
| 5/30/2019  |             |             |
| 9/30/2019  |             |             |
| 10/1/2019  | 0.0744 (J)  | 0.0682 (J)  |
| 10/2/2019  |             |             |
| 3/30/2020  | 0.0726 (J)  |             |
| 3/31/2020  |             | 0.0755 (J)  |
| 4/1/2020   |             |             |
| 8/31/2020  |             |             |
| 9/1/2020   | 0.194       | 0.0845 (J)  |
| 9/2/2020   |             |             |
| 9/8/2020   |             |             |
| 9/9/2020   |             |             |
| 5/11/2021  |             |             |
| 5/12/2021  |             |             |
| 5/17/2021  |             |             |
| 5/18/2021  | 0.0884 (J)  | 0.0614 (J)  |
| 5/19/2021  |             |             |
| 5/25/2021  |             |             |
| 10/18/2021 |             |             |
| 10/19/2021 |             |             |

# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 6/7/2023 12:09 AM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | BY-AP-MW-1 | BY-AP-MW-12 |
|------------|------------|-------------|
| 10/26/2021 |            |             |
| 10/27/2021 |            |             |
| 11/1/2021  | 0.181      | 0.0928 (J)  |
| 11/2/2021  |            |             |
| 5/23/2022  |            | 0.0873 (J)  |
| 5/24/2022  | 0.0801 (J) |             |
| 5/25/2022  |            |             |
| 5/31/2022  |            |             |
| 10/31/2022 |            |             |
| 11/1/2022  |            | 0.0695 (J)  |
| 11/2/2022  | 0.0665 (J) |             |
| 4/3/2023   | 0.0717 (J) |             |
| 4/4/2023   |            | 0.081 (J)   |
| 4/5/2023   |            |             |
| 4/12/2023  |            |             |

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 6/7/2023 12:09 AM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-AP-MW-10 | BY-AP-MW-7 | BY-AP-MW-6 | BY-AP-MW-9 | BY-AP-MW-11 |
|------------|-----------------|-----------------|-----------------|-----------------|-------------|------------|------------|------------|-------------|
| 2/23/2016  | 40              | <25             | 26.7            | 30.7            |             |            |            |            |             |
| 3/1/2016   |                 |                 |                 |                 | 326         | 129        | 45.3       | 314        | 395         |
| 3/2/2016   |                 |                 |                 |                 |             |            |            |            |             |
| 4/19/2016  | 32              | <25             | <25             | <25             |             |            | 46         |            |             |
| 4/20/2016  |                 |                 |                 |                 | 366         | 128        |            | 338        | 376         |
| 6/6/2016   |                 | 28.7            | 32.7            |                 |             |            |            |            |             |
| 6/7/2016   | 38.7            |                 |                 | 35.3            |             | 140        | 46         |            |             |
| 6/8/2016   |                 |                 |                 |                 | 314         |            |            | 288        | 324         |
| 8/30/2016  | 31.3            | 25.3            | 33.3            | 27.3            |             |            | 30         |            |             |
| 8/31/2016  |                 |                 |                 |                 | 368         | 112        |            | 334        | 367         |
| 10/18/2016 | 26.7            | <25             | 27.3            | <25             |             |            |            |            |             |
| 10/19/2016 |                 |                 |                 |                 | 381         | 134        | 37.3       | 333        | 367         |
| 1/31/2017  | 30              | 26              | 32              | 32.7            |             | 134        | 43.3       |            |             |
| 2/1/2017   |                 |                 |                 |                 | 342         |            |            | 330        | 391         |
| 5/2/2017   | 30.7            | <25             | 31.3            | 30.7            |             |            |            |            |             |
| 5/3/2017   |                 |                 |                 |                 | 369         | 127        | 44.7       | 338        | 373         |
| 6/6/2017   | 32.7            | 42.7            | 35.3            | 34.7            |             |            |            |            |             |
| 6/7/2017   |                 |                 |                 |                 | 340         | 134        | 45.3       | 300        | 367         |
| 9/12/2017  |                 | 26.7            |                 |                 |             |            |            |            |             |
| 9/13/2017  | 38              |                 | 36.7            | 39.3            |             |            |            |            | 378         |
| 9/14/2017  |                 |                 |                 |                 | 391         | 141        | 48.7       | 350        |             |
| 5/1/2018   | 35.3            | 34.7            |                 | 42              |             |            |            |            |             |
| 5/2/2018   |                 |                 | 34              |                 | 343         | 133        | 44         | 333        | 330         |
| 8/28/2018  |                 |                 |                 |                 | 375         |            |            | 324        |             |
| 8/29/2018  |                 |                 |                 |                 |             |            | 50         |            | 352         |
| 11/26/2018 |                 | 32.7            |                 |                 |             |            |            |            |             |
| 11/27/2018 | 36              |                 | 50.7            | 31.3            |             |            |            |            |             |
| 11/28/2018 |                 |                 |                 |                 | 378         | 138        | 50.7       | 330        | 357         |
| 5/28/2019  |                 | 31.3            |                 |                 |             |            |            |            |             |
| 5/29/2019  | 37.3            |                 | 58              | 40              |             | 132        | 48.7       |            | 367         |
| 5/30/2019  |                 |                 |                 |                 | 377         |            |            | 315        |             |
| 9/30/2019  |                 |                 |                 |                 | 361         | 137        |            | 319        | 399         |
| 10/1/2019  |                 |                 |                 |                 |             |            | 38         |            |             |
| 10/2/2019  | 36.7            | 36              | 46              | 41.3            |             |            |            |            |             |
| 3/30/2020  |                 |                 |                 |                 |             | 135        |            |            |             |
| 3/31/2020  | 39.3            | 36.7            | 53.3            | 40              | 387         |            | 42         | 330        | 393         |
| 4/1/2020   |                 |                 |                 |                 |             |            |            |            |             |
| 8/31/2020  |                 |                 |                 |                 |             |            |            |            |             |
| 9/1/2020   |                 |                 |                 |                 | 392         |            |            |            | 399         |
| 9/2/2020   |                 |                 |                 |                 |             | 129        | 37.3       | 301        |             |
| 9/8/2020   |                 | 39.3            |                 |                 |             |            |            |            |             |
| 9/9/2020   | 42.7            |                 | 42              | 40.7            |             |            |            |            |             |
| 5/11/2021  | 44              | 46.7            |                 | 35.3            | 391         |            |            |            |             |
| 5/12/2021  |                 |                 | 40.7            |                 |             |            |            |            |             |
| 5/17/2021  |                 |                 |                 |                 |             |            | 46.7       |            |             |
| 5/18/2021  |                 |                 |                 |                 |             | 175        |            | 314        |             |
| 5/19/2021  |                 |                 |                 |                 |             |            |            |            | 422         |
| 5/25/2021  |                 |                 |                 |                 |             |            |            |            |             |
| 10/18/2021 | 36              | 36              |                 |                 |             |            |            |            |             |
| 10/19/2021 |                 |                 | 40              | 36              |             |            |            |            |             |
| 10/26/2021 |                 |                 |                 |                 |             |            |            |            |             |
| 10/27/2021 |                 |                 |                 |                 | 373         | 123        |            | 302        |             |



# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 6/7/2023 12:09 AM View: All  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-UP-MW-3 (bg) | BY-UP-MW-4 (bg) | BY-UP-MW-1 (bg) | BY-UP-MW-2 (bg) | BY-AP-MW-10 | BY-AP-MW-7 | BY-AP-MW-6 | BY-AP-MW-9 | BY-AP-MW-11 |
|------------|-----------------|-----------------|-----------------|-----------------|-------------|------------|------------|------------|-------------|
| 11/1/2021  |                 |                 |                 |                 |             |            |            |            |             |
| 11/2/2021  |                 |                 |                 |                 |             |            | 38         |            | 390         |
| 5/23/2022  |                 |                 |                 |                 |             |            |            |            | 404         |
| 5/24/2022  |                 |                 |                 |                 | 398         | 148        |            | 268        |             |
| 5/25/2022  |                 |                 |                 |                 |             |            | 40.7       |            |             |
| 5/31/2022  | 35.3            | 36.7            | 32              | 30.7            |             |            |            |            |             |
| 10/31/2022 |                 |                 |                 |                 |             | 291        | 46         | 329        |             |
| 11/1/2022  | 36              | 31.299999       | 33.299999       | 36              |             |            |            |            | 419         |
| 11/2/2022  |                 |                 |                 |                 | 344         |            |            |            |             |
| 4/3/2023   |                 |                 |                 |                 | 370         | 198        |            |            |             |
| 4/4/2023   |                 |                 |                 |                 |             |            | 40         | 317        | 392         |
| 4/5/2023   |                 |                 |                 |                 |             |            |            |            |             |
| 4/12/2023  | 30.700001       | 32              | <25             | 27.299999       |             |            |            |            |             |





# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 6/7/2023 12:09 AM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-3 | BY-AP-MW-1 |
|------------|------------|------------|
| 2/23/2016  |            |            |
| 3/1/2016   |            |            |
| 3/2/2016   | 27.3       | 426        |
| 4/19/2016  | 33.3       | 442        |
| 4/20/2016  |            |            |
| 6/6/2016   |            |            |
| 6/7/2016   | 44         |            |
| 6/8/2016   |            | 461        |
| 8/30/2016  |            |            |
| 8/31/2016  | 29.3       | 456        |
| 10/18/2016 |            |            |
| 10/19/2016 | 29.3       | 444        |
| 1/31/2017  | 36.7       | 422        |
| 2/1/2017   |            |            |
| 5/2/2017   | 28         | 442        |
| 5/3/2017   |            |            |
| 6/6/2017   | 36.7       | 433        |
| 6/7/2017   |            |            |
| 9/12/2017  | 35.3       |            |
| 9/13/2017  |            | 456        |
| 9/14/2017  |            |            |
| 5/1/2018   | 34.7       | 416        |
| 5/2/2018   |            |            |
| 8/28/2018  | 34         | 420        |
| 8/29/2018  |            |            |
| 11/26/2018 |            |            |
| 11/27/2018 | 41.3       |            |
| 11/28/2018 |            | 408        |
| 5/28/2019  |            |            |
| 5/29/2019  | 40         | 403        |
| 5/30/2019  |            |            |
| 9/30/2019  |            |            |
| 10/1/2019  | 36.7       | 430        |
| 10/2/2019  |            |            |
| 3/30/2020  |            | 419        |
| 3/31/2020  | 37.3       |            |
| 4/1/2020   |            |            |
| 8/31/2020  |            |            |
| 9/1/2020   | 39.3       | 454        |
| 9/2/2020   |            |            |
| 9/8/2020   |            |            |
| 9/9/2020   |            |            |
| 5/11/2021  |            |            |
| 5/12/2021  |            |            |
| 5/17/2021  |            |            |
| 5/18/2021  | 38         | 450        |
| 5/19/2021  |            |            |
| 5/25/2021  |            |            |
| 10/18/2021 |            |            |
| 10/19/2021 |            |            |
| 10/26/2021 |            |            |
| 10/27/2021 |            |            |

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 6/7/2023 12:09 AM View: All  
Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | BY-AP-MW-3 | BY-AP-MW-1 |
|------------|------------|------------|
| 11/1/2021  | 35.3       | 480        |
| 11/2/2021  |            |            |
| 5/23/2022  |            |            |
| 5/24/2022  |            | 464        |
| 5/25/2022  | 50.7       |            |
| 5/31/2022  |            |            |
| 10/31/2022 |            |            |
| 11/1/2022  | 40         |            |
| 11/2/2022  |            | 404        |
| 4/3/2023   |            | 400        |
| 4/4/2023   | 43.299999  |            |
| 4/5/2023   |            |            |
| 4/12/2023  |            |            |

FIGURE F.

# Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 6/7/2023, 12:15 AM

| Constituent            | Well            | Slope    | Calc. | Critical | Sig. | N  | %NDs  | Normality | Xform | Alpha | Method |
|------------------------|-----------------|----------|-------|----------|------|----|-------|-----------|-------|-------|--------|
| Boron, total (mg/L)    | BY-AP-MW-10     | 0.1136   | 133   | 81       | Yes  | 20 | 0     | n/a       | n/a   | 0.01  | NP     |
| Boron, total (mg/L)    | BY-AP-MW-16     | 0.08216  | 121   | 81       | Yes  | 20 | 0     | n/a       | n/a   | 0.01  | NP     |
| Calcium, total (mg/L)  | BY-AP-MW-10     | 2.02     | 108   | 87       | Yes  | 21 | 0     | n/a       | n/a   | 0.01  | NP     |
| Calcium, total (mg/L)  | BY-AP-MW-12     | 0.3894   | 122   | 87       | Yes  | 21 | 0     | n/a       | n/a   | 0.01  | NP     |
| Calcium, total (mg/L)  | BY-AP-MW-7      | 0.3936   | 98    | 81       | Yes  | 20 | 0     | n/a       | n/a   | 0.01  | NP     |
| Calcium, total (mg/L)  | BY-AP-MW-8      | -0.5646  | -127  | -87      | Yes  | 21 | 0     | n/a       | n/a   | 0.01  | NP     |
| Calcium, total (mg/L)  | BY-UP-MW-3 (bg) | 0.05783  | 101   | 81       | Yes  | 20 | 0     | n/a       | n/a   | 0.01  | NP     |
| Calcium, total (mg/L)  | BY-UP-MW-4 (bg) | 0.1123   | 124   | 81       | Yes  | 20 | 0     | n/a       | n/a   | 0.01  | NP     |
| Chloride, Total (mg/L) | BY-AP-MW-10     | 1.486    | 166   | 87       | Yes  | 21 | 0     | n/a       | n/a   | 0.01  | NP     |
| Chloride, Total (mg/L) | BY-AP-MW-12     | 0.5618   | 125   | 87       | Yes  | 21 | 0     | n/a       | n/a   | 0.01  | NP     |
| Chloride, Total (mg/L) | BY-AP-MW-14     | 1.372    | 114   | 87       | Yes  | 21 | 0     | n/a       | n/a   | 0.01  | NP     |
| Chloride, Total (mg/L) | BY-AP-MW-15     | 9.918    | 188   | 87       | Yes  | 21 | 0     | n/a       | n/a   | 0.01  | NP     |
| Chloride, Total (mg/L) | BY-AP-MW-16     | 0.8385   | 150   | 87       | Yes  | 21 | 0     | n/a       | n/a   | 0.01  | NP     |
| Chloride, Total (mg/L) | BY-AP-MW-7      | 0.6631   | 110   | 81       | Yes  | 20 | 0     | n/a       | n/a   | 0.01  | NP     |
| Chloride, Total (mg/L) | BY-UP-MW-2 (bg) | -0.361   | -127  | -81      | Yes  | 20 | 0     | n/a       | n/a   | 0.01  | NP     |
| Chloride, Total (mg/L) | BY-UP-MW-3 (bg) | -0.06405 | -104  | -81      | Yes  | 20 | 0     | n/a       | n/a   | 0.01  | NP     |
| Chloride, Total (mg/L) | BY-UP-MW-4 (bg) | -0.04945 | -90   | -81      | Yes  | 20 | 0     | n/a       | n/a   | 0.01  | NP     |
| Fluoride, total (mg/L) | BY-AP-MW-13     | 0.004293 | 100   | 87       | Yes  | 21 | 4.762 | n/a       | n/a   | 0.01  | NP     |
| Fluoride, total (mg/L) | BY-AP-MW-16     | 0.008725 | 101   | 87       | Yes  | 21 | 23.81 | n/a       | n/a   | 0.01  | NP     |
| Fluoride, total (mg/L) | BY-AP-MW-7      | 0.006166 | 89    | 87       | Yes  | 21 | 0     | n/a       | n/a   | 0.01  | NP     |
| Fluoride, total (mg/L) | BY-UP-MW-1 (bg) | 0.01082  | 100   | 87       | Yes  | 21 | 52.38 | n/a       | n/a   | 0.01  | NP     |
| Fluoride, total (mg/L) | BY-UP-MW-2 (bg) | 0.01456  | 105   | 87       | Yes  | 21 | 52.38 | n/a       | n/a   | 0.01  | NP     |
| Fluoride, total (mg/L) | BY-UP-MW-3 (bg) | 0.00566  | 106   | 87       | Yes  | 21 | 66.67 | n/a       | n/a   | 0.01  | NP     |
| Fluoride, total (mg/L) | BY-UP-MW-4 (bg) | 0.00566  | 106   | 87       | Yes  | 21 | 66.67 | n/a       | n/a   | 0.01  | NP     |
| pH, field (SU)         | BY-AP-MW-2      | -0.09288 | -164  | -98      | Yes  | 23 | 0     | n/a       | n/a   | 0.01  | NP     |
| pH, field (SU)         | BY-UP-MW-2 (bg) | -0.05688 | -140  | -92      | Yes  | 22 | 0     | n/a       | n/a   | 0.01  | NP     |
| pH, field (SU)         | BY-UP-MW-3 (bg) | -0.07203 | -134  | -92      | Yes  | 22 | 0     | n/a       | n/a   | 0.01  | NP     |
| pH, field (SU)         | BY-UP-MW-4 (bg) | -0.03806 | -111  | -92      | Yes  | 22 | 0     | n/a       | n/a   | 0.01  | NP     |
| Sulfate as SO4 (mg/L)  | BY-AP-MW-1      | 2.168    | 137   | 87       | Yes  | 21 | 28.57 | n/a       | n/a   | 0.01  | NP     |
| Sulfate as SO4 (mg/L)  | BY-AP-MW-10     | 1.096    | 94    | 87       | Yes  | 21 | 42.86 | n/a       | n/a   | 0.01  | NP     |
| Sulfate as SO4 (mg/L)  | BY-AP-MW-11     | 7.332    | 147   | 87       | Yes  | 21 | 28.57 | n/a       | n/a   | 0.01  | NP     |
| Sulfate as SO4 (mg/L)  | BY-AP-MW-12     | 2.242    | 104   | 81       | Yes  | 20 | 45    | n/a       | n/a   | 0.01  | NP     |
| Sulfate as SO4 (mg/L)  | BY-AP-MW-13     | 3.326    | 96    | 81       | Yes  | 20 | 25    | n/a       | n/a   | 0.01  | NP     |
| Sulfate as SO4 (mg/L)  | BY-AP-MW-14     | 11.37    | 112   | 81       | Yes  | 20 | 45    | n/a       | n/a   | 0.01  | NP     |
| Sulfate as SO4 (mg/L)  | BY-AP-MW-5      | 0.829    | 89    | 74       | Yes  | 19 | 47.37 | n/a       | n/a   | 0.01  | NP     |
| Sulfate as SO4 (mg/L)  | BY-AP-MW-7      | 0.9419   | 97    | 81       | Yes  | 20 | 30    | n/a       | n/a   | 0.01  | NP     |
| Sulfate as SO4 (mg/L)  | BY-AP-MW-8      | 2.016    | 127   | 87       | Yes  | 21 | 47.62 | n/a       | n/a   | 0.01  | NP     |
| Sulfate as SO4 (mg/L)  | BY-AP-MW-9      | 0.4966   | 90    | 87       | Yes  | 21 | 42.86 | n/a       | n/a   | 0.01  | NP     |
| TDS (mg/L)             | BY-AP-MW-15     | 15.94    | 162   | 87       | Yes  | 21 | 0     | n/a       | n/a   | 0.01  | NP     |
| TDS (mg/L)             | BY-UP-MW-4 (bg) | 1.876    | 95    | 81       | Yes  | 20 | 20    | n/a       | n/a   | 0.01  | NP     |

# Trend Tests - Prediction Limit Exceedances - All Results

Plant Barry    Client: Southern Company    Data: Barry Ash Pond    Printed 6/7/2023, 12:15 AM

| <u>Constituent</u>            | <u>Well</u>            | <u>Slope</u>    | <u>Calc.</u> | <u>Critical</u> | <u>Sig.</u> | <u>N</u>  | <u>%NDs</u>  | <u>Normality</u> | <u>Xform</u> | <u>Alpha</u> | <u>Method</u> |
|-------------------------------|------------------------|-----------------|--------------|-----------------|-------------|-----------|--------------|------------------|--------------|--------------|---------------|
| Boron, total (mg/L)           | BY-AP-MW-1             | 0.04887         | 64           | 81              | No          | 20        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>Boron, total (mg/L)</b>    | <b>BY-AP-MW-10</b>     | <b>0.1136</b>   | <b>133</b>   | <b>81</b>       | <b>Yes</b>  | <b>20</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Boron, total (mg/L)</b>    | <b>BY-AP-MW-16</b>     | <b>0.08216</b>  | <b>121</b>   | <b>81</b>       | <b>Yes</b>  | <b>20</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| Boron, total (mg/L)           | BY-AP-MW-9             | 0               | 1            | 81              | No          | 20        | 0            | n/a              | n/a          | 0.01         | NP            |
| Boron, total (mg/L)           | BY-UP-MW-1 (bg)        | -0.0009367      | -48          | -81             | No          | 20        | 40           | n/a              | n/a          | 0.01         | NP            |
| Boron, total (mg/L)           | BY-UP-MW-2 (bg)        | 0               | 31           | 74              | No          | 19        | 89.47        | n/a              | n/a          | 0.01         | NP            |
| Boron, total (mg/L)           | BY-UP-MW-3 (bg)        | 0               | 0            | 81              | No          | 20        | 100          | n/a              | n/a          | 0.01         | NP            |
| Boron, total (mg/L)           | BY-UP-MW-4 (bg)        | 0               | 29           | 81              | No          | 20        | 90           | n/a              | n/a          | 0.01         | NP            |
| Calcium, total (mg/L)         | BY-AP-MW-1             | 0.3179          | 16           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>Calcium, total (mg/L)</b>  | <b>BY-AP-MW-10</b>     | <b>2.02</b>     | <b>108</b>   | <b>87</b>       | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| Calcium, total (mg/L)         | BY-AP-MW-11            | -0.1518         | -20          | -87             | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>Calcium, total (mg/L)</b>  | <b>BY-AP-MW-12</b>     | <b>0.3894</b>   | <b>122</b>   | <b>87</b>       | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| Calcium, total (mg/L)         | BY-AP-MW-13            | 0.4066          | 75           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| Calcium, total (mg/L)         | BY-AP-MW-14            | -0.1157         | -26          | -87             | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| Calcium, total (mg/L)         | BY-AP-MW-15            | 0.04921         | 29           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| Calcium, total (mg/L)         | BY-AP-MW-16            | -0.04554        | -19          | -87             | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| Calcium, total (mg/L)         | BY-AP-MW-4             | -0.01511        | -12          | -87             | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| Calcium, total (mg/L)         | BY-AP-MW-5             | -0.1127         | -33          | -81             | No          | 20        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>Calcium, total (mg/L)</b>  | <b>BY-AP-MW-7</b>      | <b>0.3936</b>   | <b>98</b>    | <b>81</b>       | <b>Yes</b>  | <b>20</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Calcium, total (mg/L)</b>  | <b>BY-AP-MW-8</b>      | <b>-0.5646</b>  | <b>-127</b>  | <b>-87</b>      | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| Calcium, total (mg/L)         | BY-AP-MW-9             | -0.05215        | -16          | -87             | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| Calcium, total (mg/L)         | BY-UP-MW-1 (bg)        | -0.004603       | -12          | -81             | No          | 20        | 0            | n/a              | n/a          | 0.01         | NP            |
| Calcium, total (mg/L)         | BY-UP-MW-2 (bg)        | 0.0288          | 40           | 81              | No          | 20        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>Calcium, total (mg/L)</b>  | <b>BY-UP-MW-3 (bg)</b> | <b>0.05783</b>  | <b>101</b>   | <b>81</b>       | <b>Yes</b>  | <b>20</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Calcium, total (mg/L)</b>  | <b>BY-UP-MW-4 (bg)</b> | <b>0.1123</b>   | <b>124</b>   | <b>81</b>       | <b>Yes</b>  | <b>20</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| Chloride, Total (mg/L)        | BY-AP-MW-1             | 0.368           | 55           | 74              | No          | 19        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>Chloride, Total (mg/L)</b> | <b>BY-AP-MW-10</b>     | <b>1.486</b>    | <b>166</b>   | <b>87</b>       | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| Chloride, Total (mg/L)        | BY-AP-MW-11            | 0.4491          | 54           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>Chloride, Total (mg/L)</b> | <b>BY-AP-MW-12</b>     | <b>0.5618</b>   | <b>125</b>   | <b>87</b>       | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| Chloride, Total (mg/L)        | BY-AP-MW-13            | -0.5681         | -32          | -87             | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>Chloride, Total (mg/L)</b> | <b>BY-AP-MW-14</b>     | <b>1.372</b>    | <b>114</b>   | <b>87</b>       | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Chloride, Total (mg/L)</b> | <b>BY-AP-MW-15</b>     | <b>9.918</b>    | <b>188</b>   | <b>87</b>       | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Chloride, Total (mg/L)</b> | <b>BY-AP-MW-16</b>     | <b>0.8385</b>   | <b>150</b>   | <b>87</b>       | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| Chloride, Total (mg/L)        | BY-AP-MW-4             | 0.0839          | 11           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| Chloride, Total (mg/L)        | BY-AP-MW-5             | -0.1245         | -22          | -81             | No          | 20        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>Chloride, Total (mg/L)</b> | <b>BY-AP-MW-7</b>      | <b>0.6631</b>   | <b>110</b>   | <b>81</b>       | <b>Yes</b>  | <b>20</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| Chloride, Total (mg/L)        | BY-AP-MW-8             | 0.04311         | 13           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| Chloride, Total (mg/L)        | BY-AP-MW-9             | -0.8711         | -78          | -87             | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| Chloride, Total (mg/L)        | BY-UP-MW-1 (bg)        | -0.1864         | -62          | -81             | No          | 20        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>Chloride, Total (mg/L)</b> | <b>BY-UP-MW-2 (bg)</b> | <b>-0.361</b>   | <b>-127</b>  | <b>-81</b>      | <b>Yes</b>  | <b>20</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Chloride, Total (mg/L)</b> | <b>BY-UP-MW-3 (bg)</b> | <b>-0.06405</b> | <b>-104</b>  | <b>-81</b>      | <b>Yes</b>  | <b>20</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Chloride, Total (mg/L)</b> | <b>BY-UP-MW-4 (bg)</b> | <b>-0.04945</b> | <b>-90</b>   | <b>-81</b>      | <b>Yes</b>  | <b>20</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| Fluoride, total (mg/L)        | BY-AP-MW-11            | 0.00443         | 76           | 87              | No          | 21        | 4.762        | n/a              | n/a          | 0.01         | NP            |
| <b>Fluoride, total (mg/L)</b> | <b>BY-AP-MW-13</b>     | <b>0.004293</b> | <b>100</b>   | <b>87</b>       | <b>Yes</b>  | <b>21</b> | <b>4.762</b> | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| Fluoride, total (mg/L)        | BY-AP-MW-14            | 0.002285        | 33           | 87              | No          | 21        | 4.762        | n/a              | n/a          | 0.01         | NP            |
| Fluoride, total (mg/L)        | BY-AP-MW-15            | 0               | 9            | 87              | No          | 21        | 4.762        | n/a              | n/a          | 0.01         | NP            |
| <b>Fluoride, total (mg/L)</b> | <b>BY-AP-MW-16</b>     | <b>0.008725</b> | <b>101</b>   | <b>87</b>       | <b>Yes</b>  | <b>21</b> | <b>23.81</b> | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Fluoride, total (mg/L)</b> | <b>BY-AP-MW-7</b>      | <b>0.006166</b> | <b>89</b>    | <b>87</b>       | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Fluoride, total (mg/L)</b> | <b>BY-UP-MW-1 (bg)</b> | <b>0.01082</b>  | <b>100</b>   | <b>87</b>       | <b>Yes</b>  | <b>21</b> | <b>52.38</b> | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Fluoride, total (mg/L)</b> | <b>BY-UP-MW-2 (bg)</b> | <b>0.01456</b>  | <b>105</b>   | <b>87</b>       | <b>Yes</b>  | <b>21</b> | <b>52.38</b> | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Fluoride, total (mg/L)</b> | <b>BY-UP-MW-3 (bg)</b> | <b>0.00566</b>  | <b>106</b>   | <b>87</b>       | <b>Yes</b>  | <b>21</b> | <b>66.67</b> | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Fluoride, total (mg/L)</b> | <b>BY-UP-MW-4 (bg)</b> | <b>0.00566</b>  | <b>106</b>   | <b>87</b>       | <b>Yes</b>  | <b>21</b> | <b>66.67</b> | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| pH, field (SU)                | BY-AP-MW-10            | -0.0135         | -31          | -98             | No          | 23        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>pH, field (SU)</b>         | <b>BY-AP-MW-2</b>      | <b>-0.09288</b> | <b>-164</b>  | <b>-98</b>      | <b>Yes</b>  | <b>23</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| pH, field (SU)                | BY-AP-MW-3             | -0.0262         | -71          | -98             | No          | 23        | 0            | n/a              | n/a          | 0.01         | NP            |
| pH, field (SU)                | BY-AP-MW-7             | 0.01492         | 61           | 92              | No          | 22        | 0            | n/a              | n/a          | 0.01         | NP            |
| pH, field (SU)                | BY-AP-MW-8             | 0               | -13          | -98             | No          | 23        | 0            | n/a              | n/a          | 0.01         | NP            |
| pH, field (SU)                | BY-UP-MW-1 (bg)        | -0.002988       | -13          | -92             | No          | 22        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>pH, field (SU)</b>         | <b>BY-UP-MW-2 (bg)</b> | <b>-0.05688</b> | <b>-140</b>  | <b>-92</b>      | <b>Yes</b>  | <b>22</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>pH, field (SU)</b>         | <b>BY-UP-MW-3 (bg)</b> | <b>-0.07203</b> | <b>-134</b>  | <b>-92</b>      | <b>Yes</b>  | <b>22</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>pH, field (SU)</b>         | <b>BY-UP-MW-4 (bg)</b> | <b>-0.03806</b> | <b>-111</b>  | <b>-92</b>      | <b>Yes</b>  | <b>22</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| Sulfate as SO4 (mg/L)         | BY-AP-MW-1             | 2.168           | 137          | 87              | Yes         | 21        | 28.57        | n/a              | n/a          | 0.01         | NP            |
| Sulfate as SO4 (mg/L)         | BY-AP-MW-10            | 1.096           | 94           | 87              | Yes         | 21        | 42.86        | n/a              | n/a          | 0.01         | NP            |
| Sulfate as SO4 (mg/L)         | BY-AP-MW-11            | 7.332           | 147          | 87              | Yes         | 21        | 28.57        | n/a              | n/a          | 0.01         | NP            |
| Sulfate as SO4 (mg/L)         | BY-AP-MW-12            | 2.242           | 104          | 81              | Yes         | 20        | 45           | n/a              | n/a          | 0.01         | NP            |
| Sulfate as SO4 (mg/L)         | BY-AP-MW-13            | 3.326           | 96           | 81              | Yes         | 20        | 25           | n/a              | n/a          | 0.01         | NP            |
| Sulfate as SO4 (mg/L)         | BY-AP-MW-14            | 11.37           | 112          | 81              | Yes         | 20        | 45           | n/a              | n/a          | 0.01         | NP            |
| Sulfate as SO4 (mg/L)         | BY-AP-MW-15            | 0.03312         | 47           | 87              | No          | 21        | 47.62        | n/a              | n/a          | 0.01         | NP            |



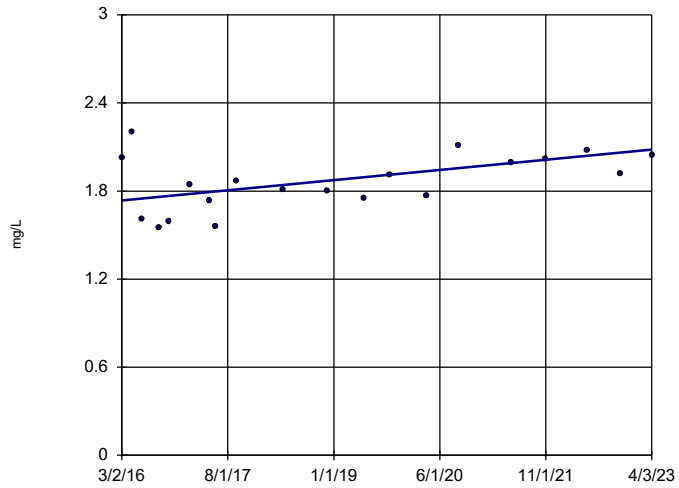
# Trend Tests - Prediction Limit Exceedances - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 6/7/2023, 12:15 AM

| Constituent                  | Well                   | Slope         | Calc.      | Critical  | Sig.       | N         | %NDs         | Normality  | Xform      | Alpha       | Method    |
|------------------------------|------------------------|---------------|------------|-----------|------------|-----------|--------------|------------|------------|-------------|-----------|
| Sulfate as SO4 (mg/L)        | BY-AP-MW-16            | 0.2304        | 47         | 74        | No         | 19        | 47.37        | n/a        | n/a        | 0.01        | NP        |
| <b>Sulfate as SO4 (mg/L)</b> | <b>BY-AP-MW-5</b>      | <b>0.829</b>  | <b>89</b>  | <b>74</b> | <b>Yes</b> | <b>19</b> | <b>47.37</b> | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| Sulfate as SO4 (mg/L)        | BY-AP-MW-7             | 0.9419        | 97         | 81        | Yes        | 20        | 30           | n/a        | n/a        | 0.01        | NP        |
| Sulfate as SO4 (mg/L)        | BY-AP-MW-8             | 2.016         | 127        | 87        | Yes        | 21        | 47.62        | n/a        | n/a        | 0.01        | NP        |
| <b>Sulfate as SO4 (mg/L)</b> | <b>BY-AP-MW-9</b>      | <b>0.4966</b> | <b>90</b>  | <b>87</b> | <b>Yes</b> | <b>21</b> | <b>42.86</b> | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| Sulfate as SO4 (mg/L)        | BY-UP-MW-1 (bg)        | 0.7972        | 50         | 81        | No         | 20        | 0            | n/a        | n/a        | 0.01        | NP        |
| Sulfate as SO4 (mg/L)        | BY-UP-MW-2 (bg)        | 0.1304        | 22         | 74        | No         | 19        | 0            | n/a        | n/a        | 0.01        | NP        |
| Sulfate as SO4 (mg/L)        | BY-UP-MW-3 (bg)        | -0.07299      | -38        | -81       | No         | 20        | 0            | n/a        | n/a        | 0.01        | NP        |
| Sulfate as SO4 (mg/L)        | BY-UP-MW-4 (bg)        | -0.06997      | -35        | -81       | No         | 20        | 0            | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)                   | BY-AP-MW-1             | -3.188        | -36        | -87       | No         | 21        | 0            | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)                   | BY-AP-MW-10            | 5.242         | 79         | 87        | No         | 21        | 0            | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)                   | BY-AP-MW-11            | 6.294         | 77         | 87        | No         | 21        | 0            | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)                   | BY-AP-MW-12            | -0.6998       | -9         | -87       | No         | 21        | 0            | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)                   | BY-AP-MW-13            | -5.299        | -75        | -87       | No         | 21        | 0            | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)                   | BY-AP-MW-14            | 2.236         | 44         | 87        | No         | 21        | 0            | n/a        | n/a        | 0.01        | NP        |
| <b>TDS (mg/L)</b>            | <b>BY-AP-MW-15</b>     | <b>15.94</b>  | <b>162</b> | <b>87</b> | <b>Yes</b> | <b>21</b> | <b>0</b>     | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| TDS (mg/L)                   | BY-AP-MW-16            | 6.148         | 82         | 87        | No         | 21        | 0            | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)                   | BY-AP-MW-4             | 2.211         | 64         | 87        | No         | 21        | 0            | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)                   | BY-AP-MW-5             | -4.862        | -68        | -81       | No         | 20        | 0            | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)                   | BY-AP-MW-7             | 2.958         | 66         | 81        | No         | 20        | 0            | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)                   | BY-AP-MW-8             | -2.208        | -40        | -87       | No         | 21        | 0            | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)                   | BY-AP-MW-9             | -3.065        | -62        | -87       | No         | 21        | 0            | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)                   | BY-UP-MW-1 (bg)        | 1.942         | 51         | 81        | No         | 20        | 10           | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)                   | BY-UP-MW-2 (bg)        | 0.9688        | 48         | 81        | No         | 20        | 10           | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)                   | BY-UP-MW-3 (bg)        | 0.7112        | 31         | 81        | No         | 20        | 0            | n/a        | n/a        | 0.01        | NP        |
| <b>TDS (mg/L)</b>            | <b>BY-UP-MW-4 (bg)</b> | <b>1.876</b>  | <b>95</b>  | <b>81</b> | <b>Yes</b> | <b>20</b> | <b>20</b>    | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |

### Sen's Slope Estimator

BY-AP-MW-1

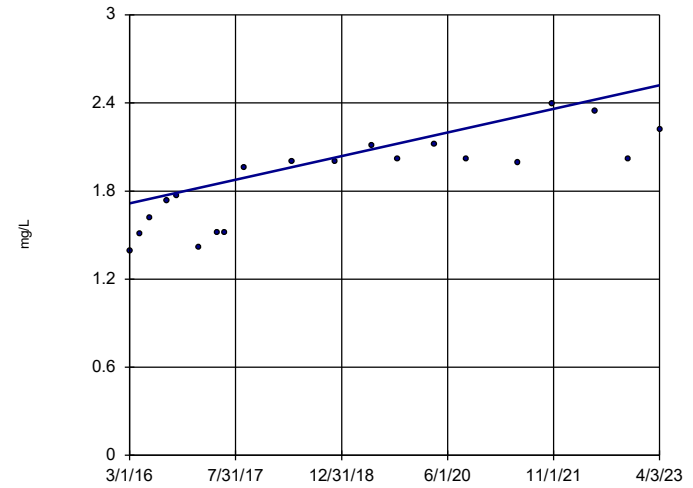


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 Slope = 0.04887  
 units per year.  
 Mann-Kendall  
 statistic = 64  
 critical = 81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Boron, total Analysis Run 6/7/2023 12:12 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-10

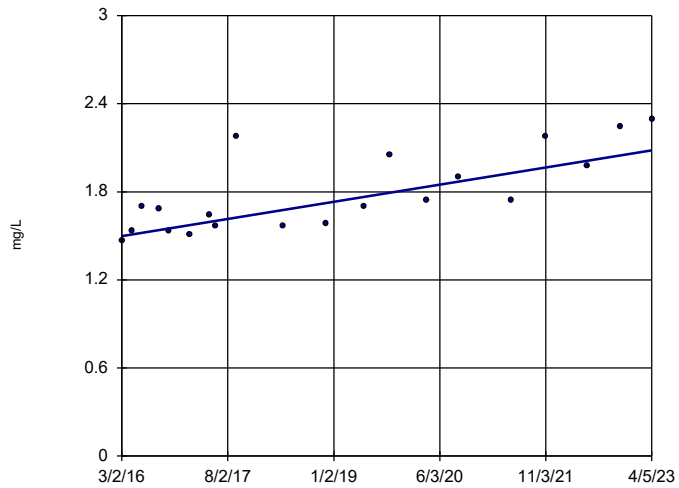


n = 20  
 Slope = 0.1136  
 units per year.  
 Mann-Kendall  
 statistic = 133  
 critical = 81  
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 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Boron, total Analysis Run 6/7/2023 12:12 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-16

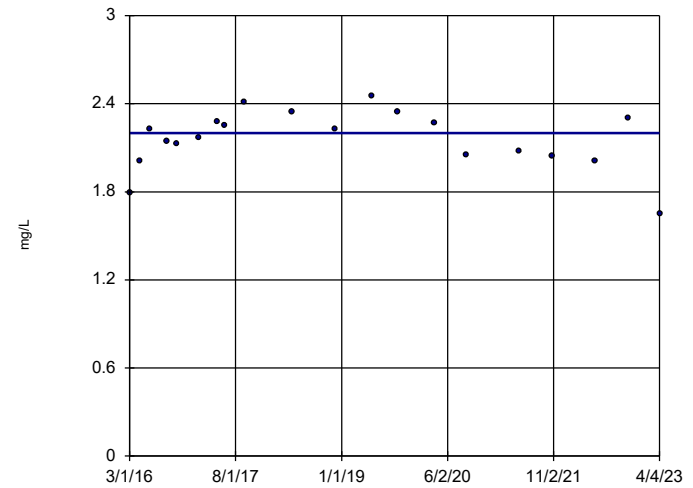


n = 20  
 Slope = 0.08216  
 units per year.  
 Mann-Kendall  
 statistic = 121  
 critical = 81  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Boron, total Analysis Run 6/7/2023 12:12 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-9

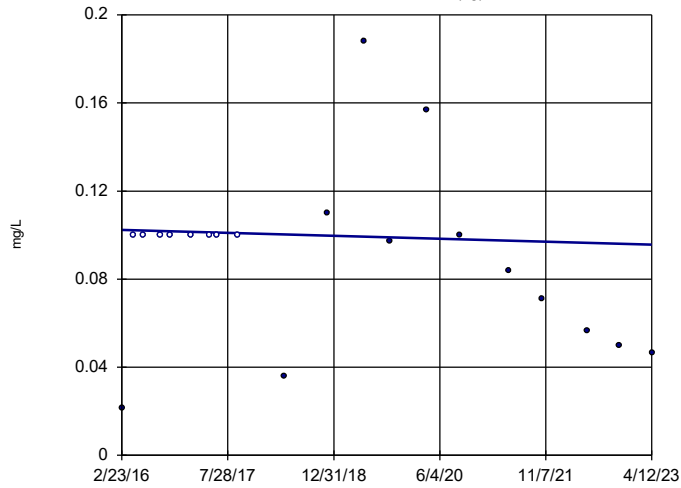


n = 20  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = 1  
 critical = 81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Boron, total Analysis Run 6/7/2023 12:12 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

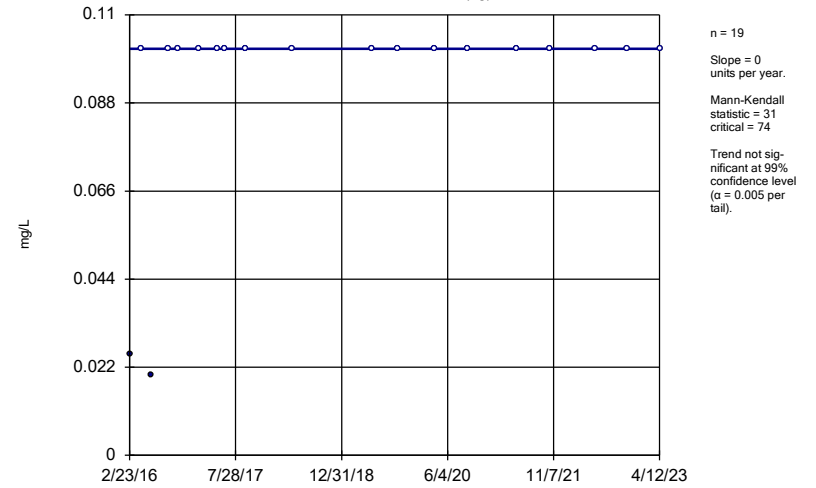
BY-UP-MW-1 (bg)



Constituent: Boron, total Analysis Run 6/7/2023 12:12 AM View: Trend  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

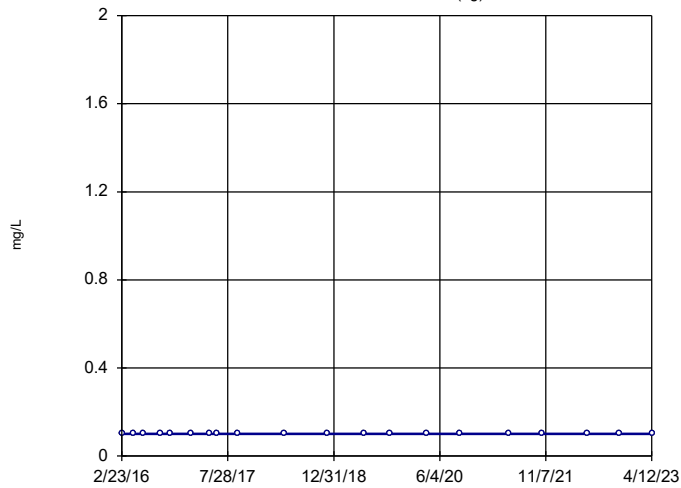
BY-UP-MW-2 (bg)



Constituent: Boron, total Analysis Run 6/7/2023 12:12 AM View: Trend  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

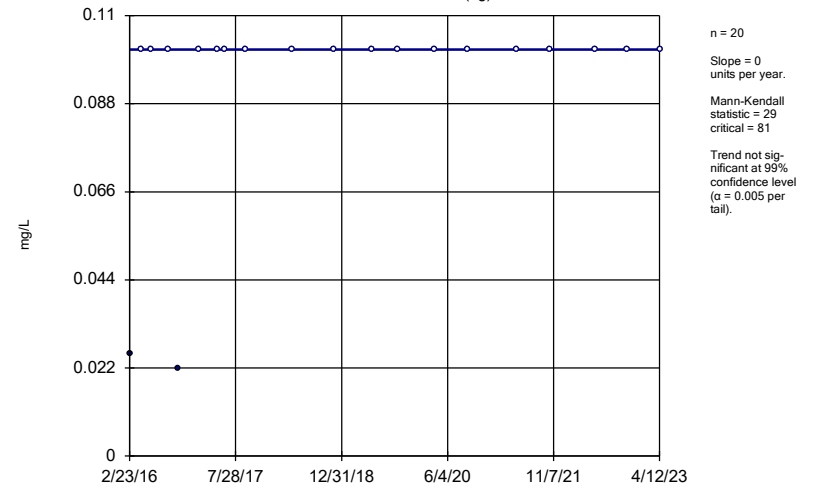
BY-UP-MW-3 (bg)



Constituent: Boron, total Analysis Run 6/7/2023 12:12 AM View: Trend  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

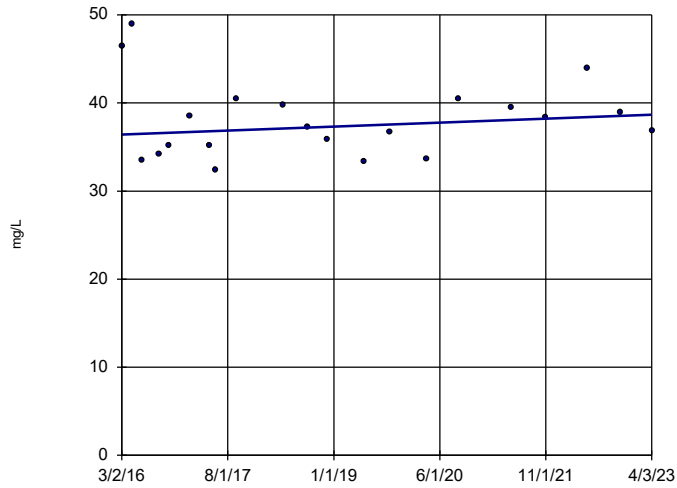
BY-UP-MW-4 (bg)



Constituent: Boron, total Analysis Run 6/7/2023 12:12 AM View: Trend  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-1

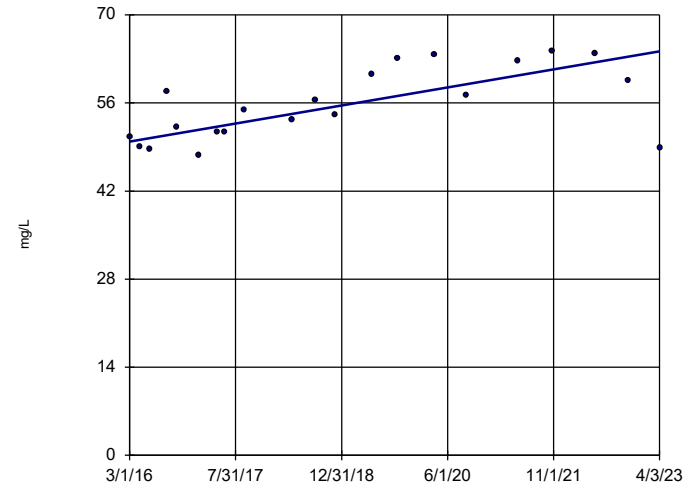


n = 21  
 Slope = 0.3179  
 units per year.  
 Mann-Kendall  
 statistic = 16  
 critical = 87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium, total Analysis Run 6/7/2023 12:12 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-10

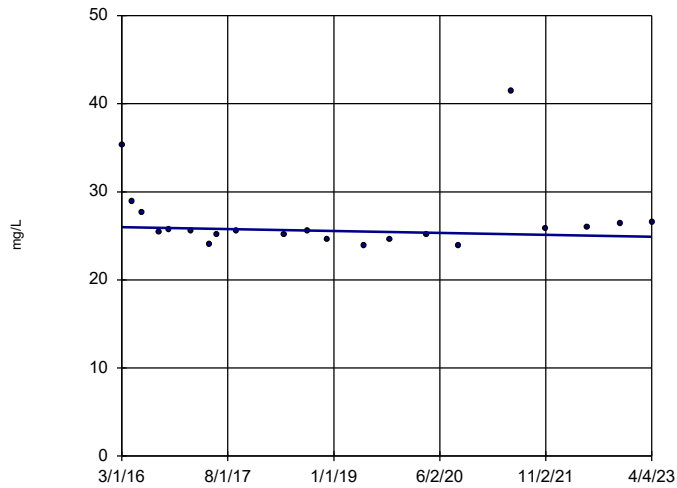


n = 21  
 Slope = 2.02  
 units per year.  
 Mann-Kendall  
 statistic = 108  
 critical = 87  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium, total Analysis Run 6/7/2023 12:12 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-11

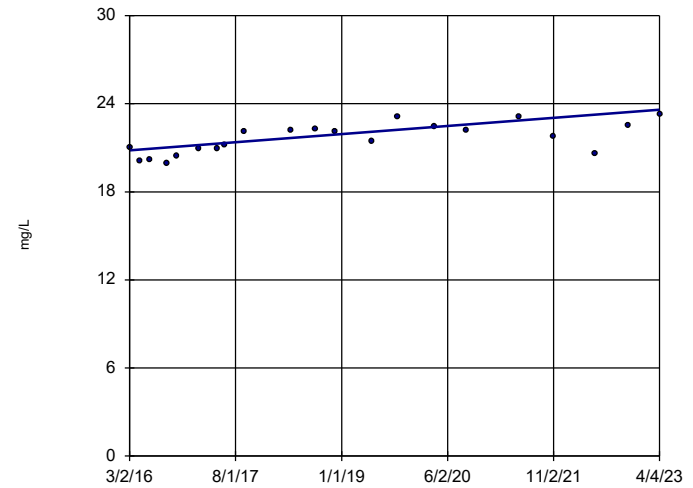


n = 21  
 Slope = -0.1518  
 units per year.  
 Mann-Kendall  
 statistic = -20  
 critical = -87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium, total Analysis Run 6/7/2023 12:12 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-12

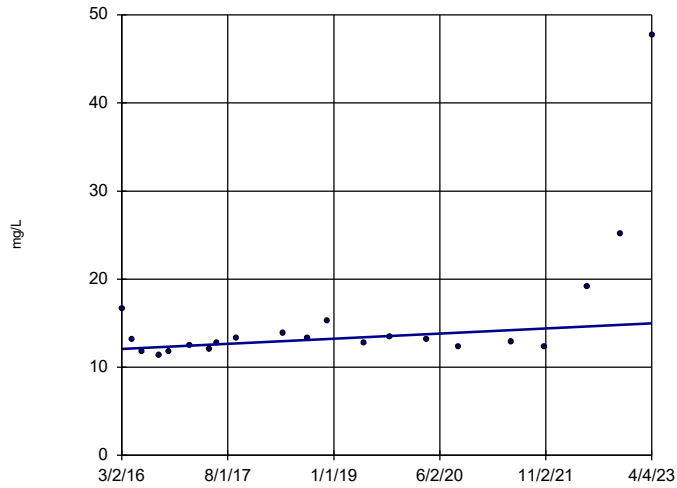


n = 21  
 Slope = 0.3894  
 units per year.  
 Mann-Kendall  
 statistic = 122  
 critical = 87  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium, total Analysis Run 6/7/2023 12:12 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-13

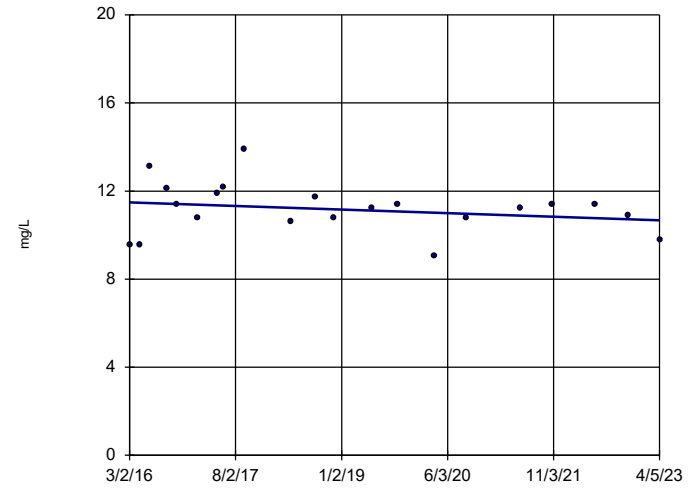


n = 21  
 Slope = 0.4066  
 units per year.  
 Mann-Kendall  
 statistic = 75  
 critical = 87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium, total Analysis Run 6/7/2023 12:12 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-14

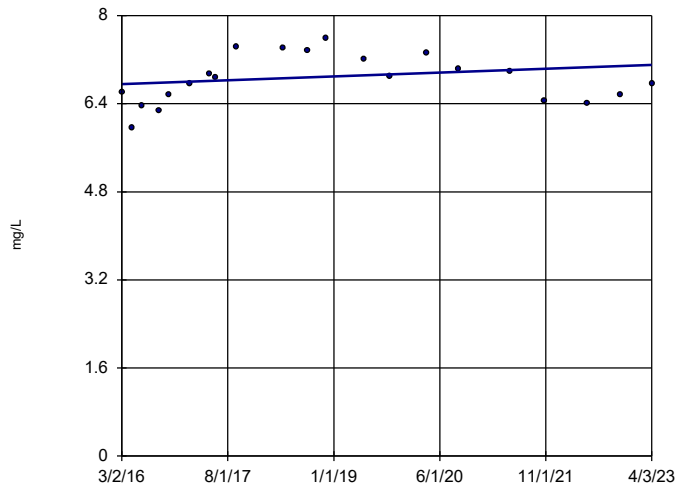


n = 21  
 Slope = -0.1157  
 units per year.  
 Mann-Kendall  
 statistic = -26  
 critical = -87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium, total Analysis Run 6/7/2023 12:12 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-15

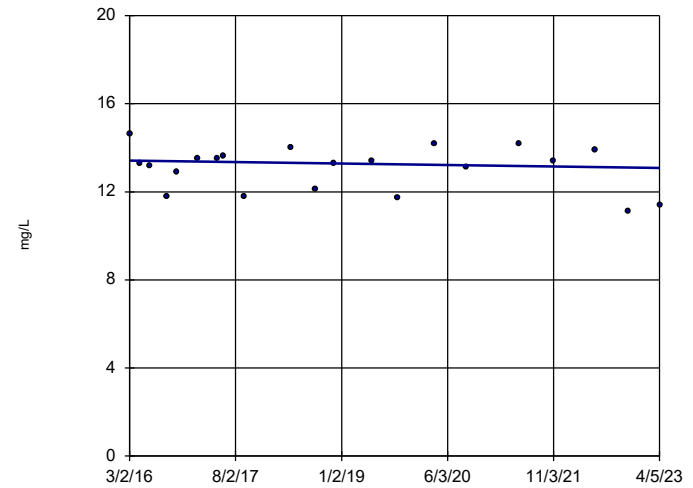


n = 21  
 Slope = 0.04921  
 units per year.  
 Mann-Kendall  
 statistic = 29  
 critical = 87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium, total Analysis Run 6/7/2023 12:12 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-16

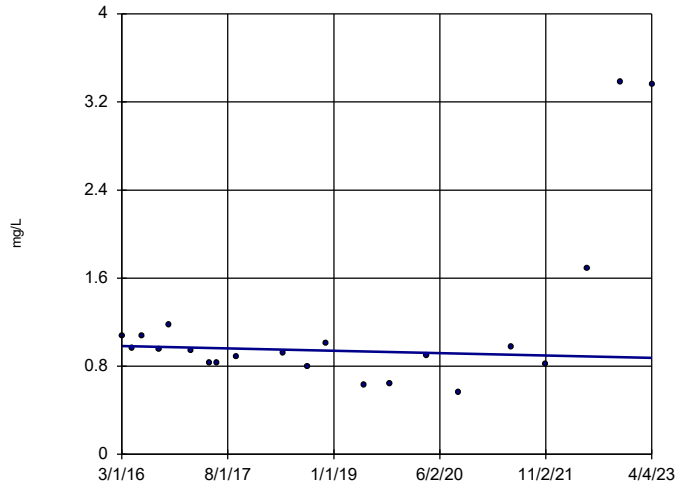


n = 21  
 Slope = -0.04554  
 units per year.  
 Mann-Kendall  
 statistic = -19  
 critical = -87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium, total Analysis Run 6/7/2023 12:12 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-4

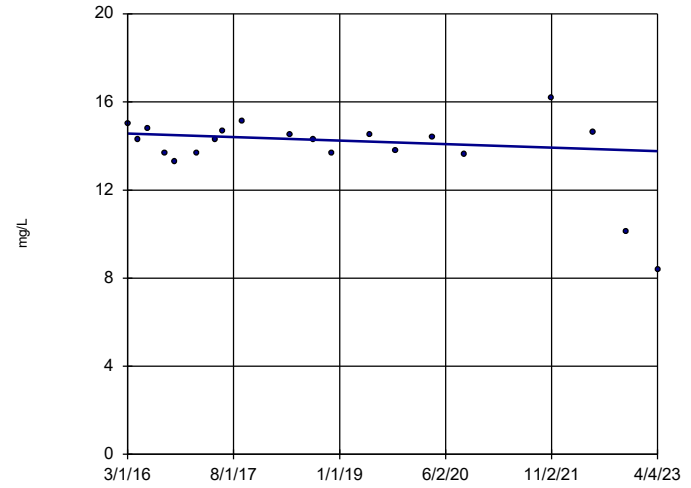


n = 21  
 Slope = -0.01511 units per year.  
 Mann-Kendall statistic = -12  
 critical = -87  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 6/7/2023 12:12 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-5

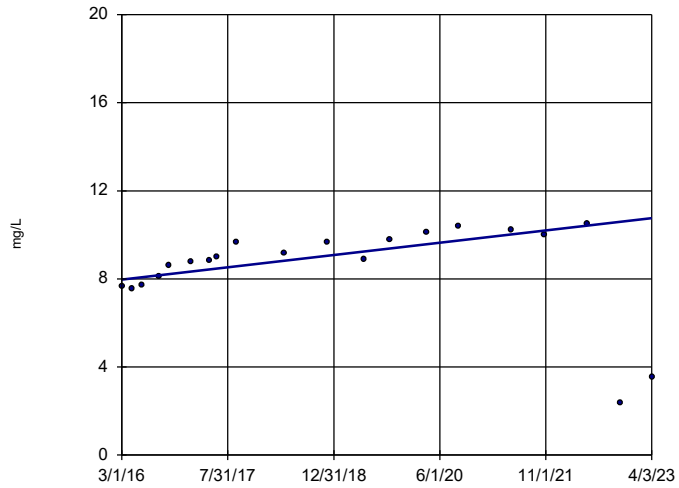


n = 20  
 Slope = -0.1127 units per year.  
 Mann-Kendall statistic = -33  
 critical = -81  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 6/7/2023 12:12 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-7

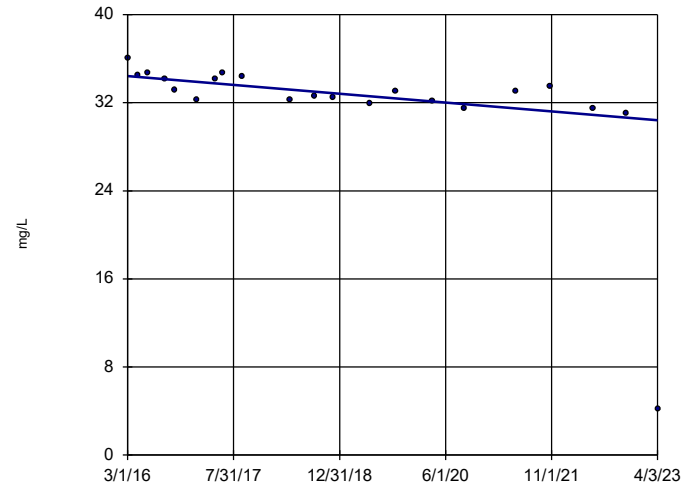


n = 20  
 Slope = 0.3936 units per year.  
 Mann-Kendall statistic = 98  
 critical = 81  
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 6/7/2023 12:12 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-8

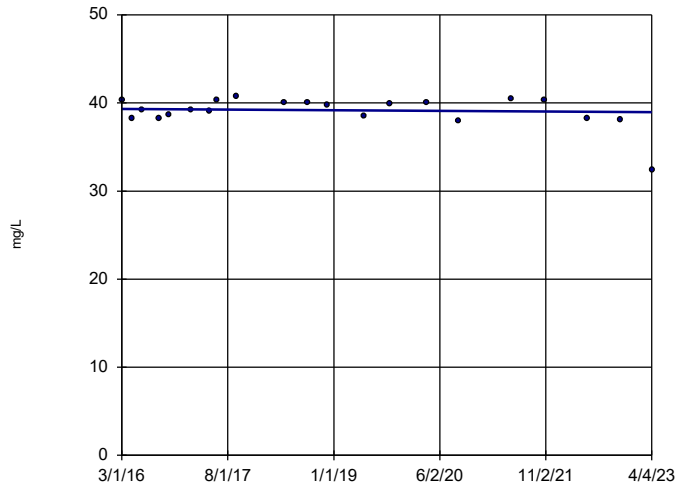


n = 21  
 Slope = -0.5646 units per year.  
 Mann-Kendall statistic = -127  
 critical = -87  
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 6/7/2023 12:12 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

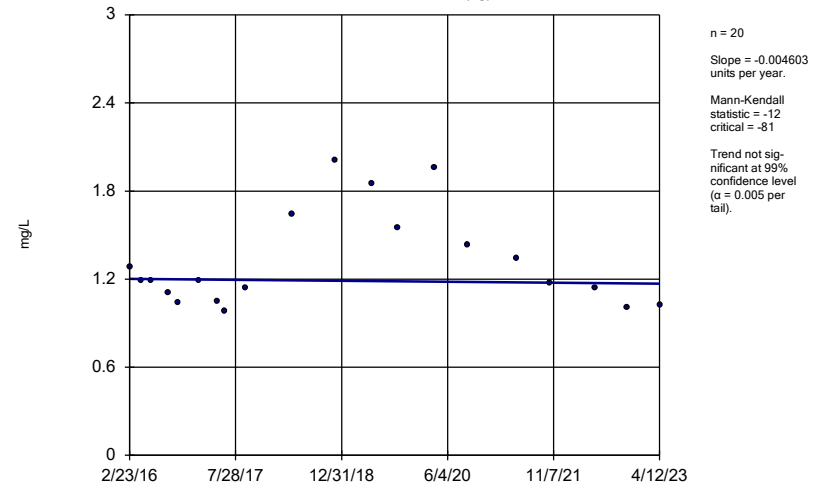
BY-AP-MW-9



Constituent: Calcium, total Analysis Run 6/7/2023 12:12 AM View: Trend  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

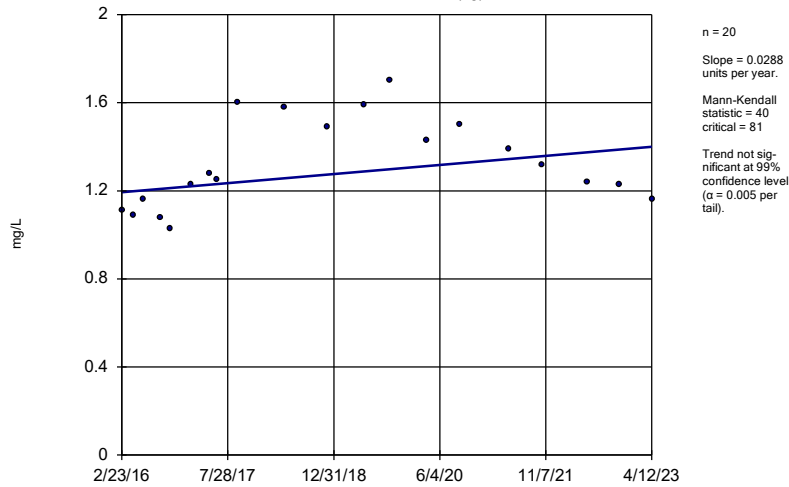
BY-UP-MW-1 (bg)



Constituent: Calcium, total Analysis Run 6/7/2023 12:12 AM View: Trend  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

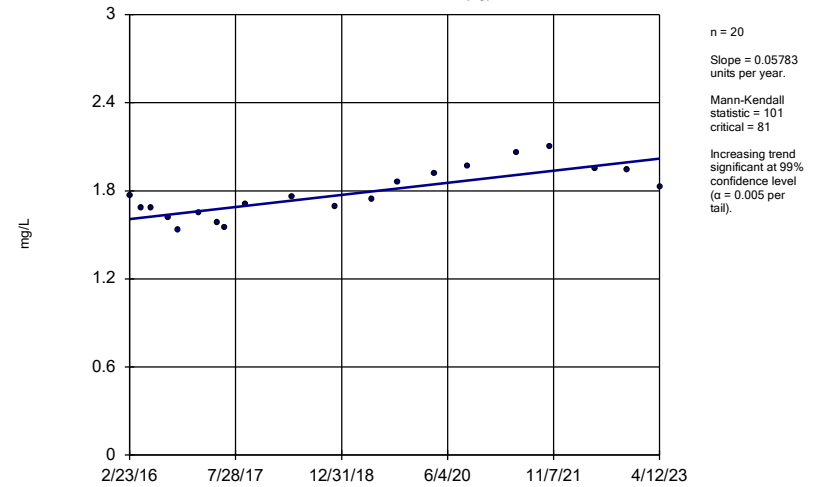
BY-UP-MW-2 (bg)



Constituent: Calcium, total Analysis Run 6/7/2023 12:12 AM View: Trend  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

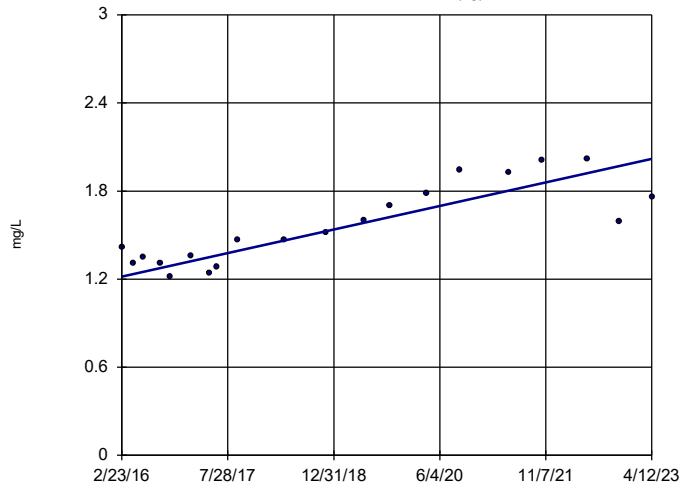
BY-UP-MW-3 (bg)



Constituent: Calcium, total Analysis Run 6/7/2023 12:13 AM View: Trend  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-UP-MW-4 (bg)

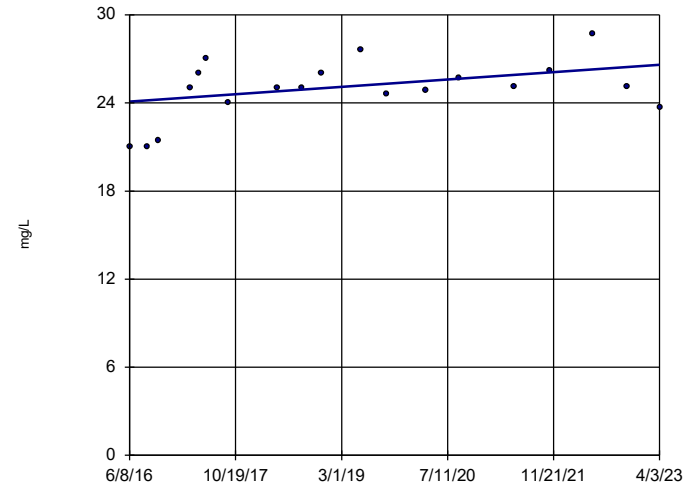


n = 20  
 Slope = 0.1123  
 units per year.  
 Mann-Kendall  
 statistic = 124  
 critical = 81  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium, total Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-1

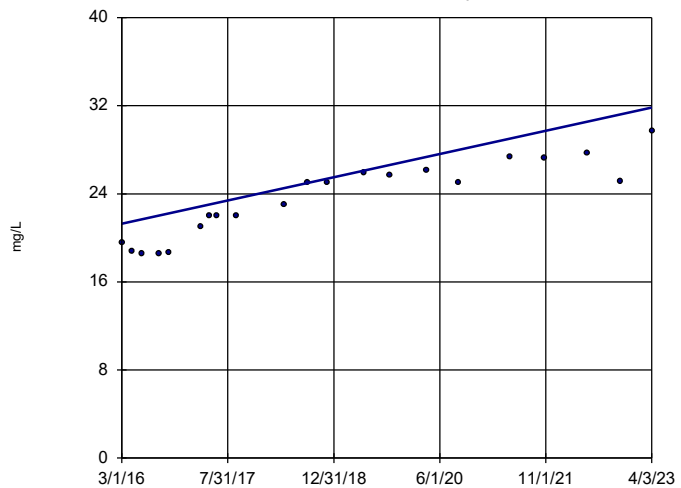


n = 19  
 Slope = 0.368  
 units per year.  
 Mann-Kendall  
 statistic = 55  
 critical = 74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-10

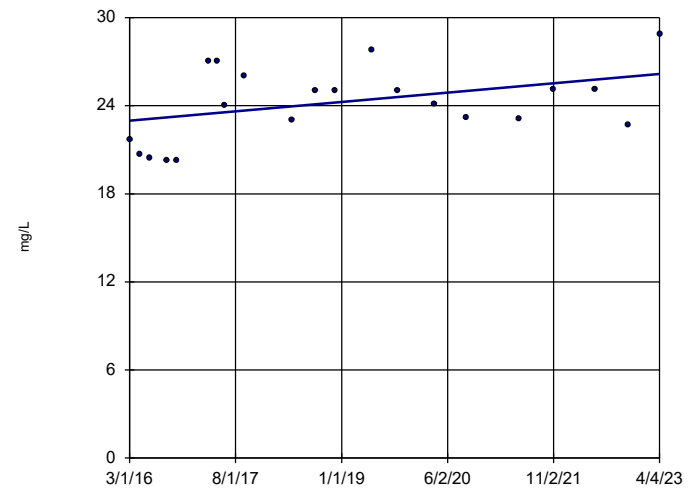


n = 21  
 Slope = 1.486  
 units per year.  
 Mann-Kendall  
 statistic = 166  
 critical = 87  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-11



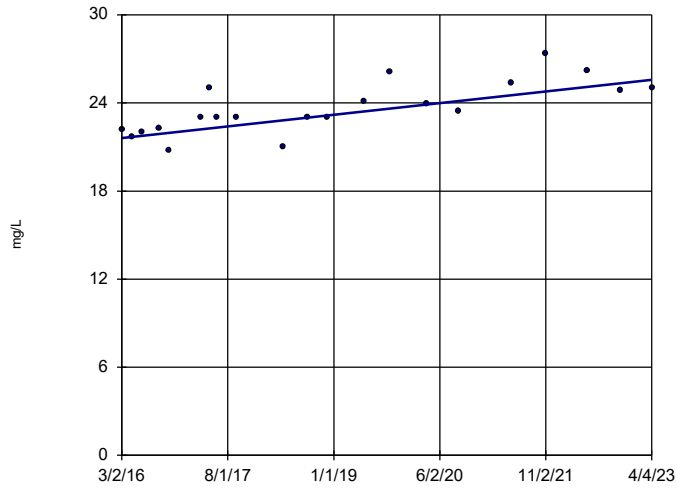
n = 21  
 Slope = 0.4491  
 units per year.  
 Mann-Kendall  
 statistic = 54  
 critical = 87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond



### Sen's Slope Estimator

BY-AP-MW-12

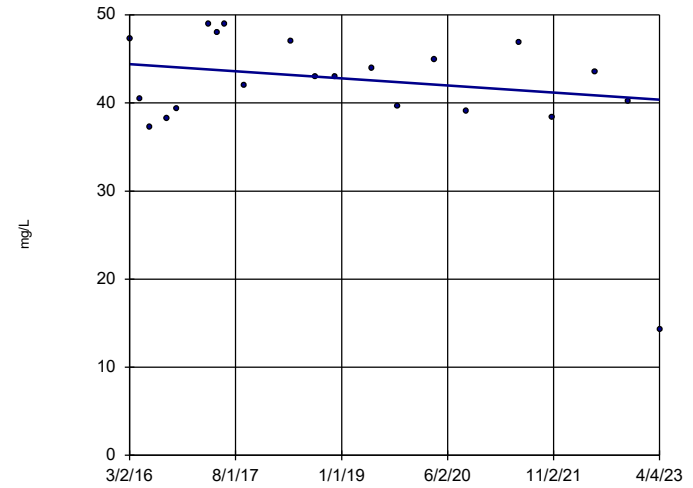


n = 21  
 Slope = 0.5618  
 units per year.  
 Mann-Kendall  
 statistic = 125  
 critical = 87  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-13

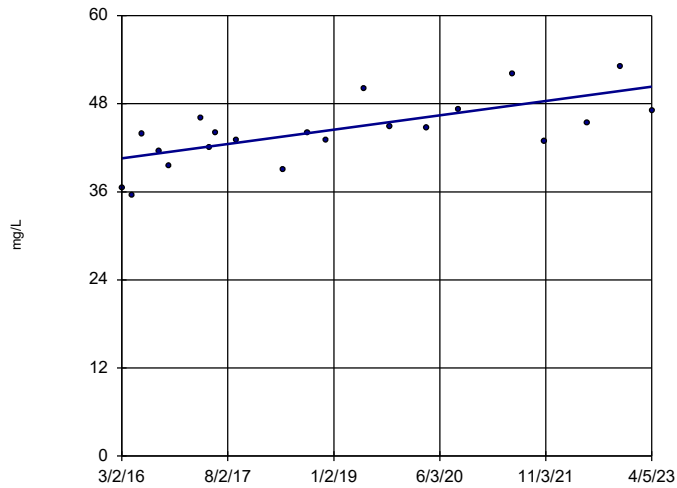


n = 21  
 Slope = -0.5681  
 units per year.  
 Mann-Kendall  
 statistic = -32  
 critical = -87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-14

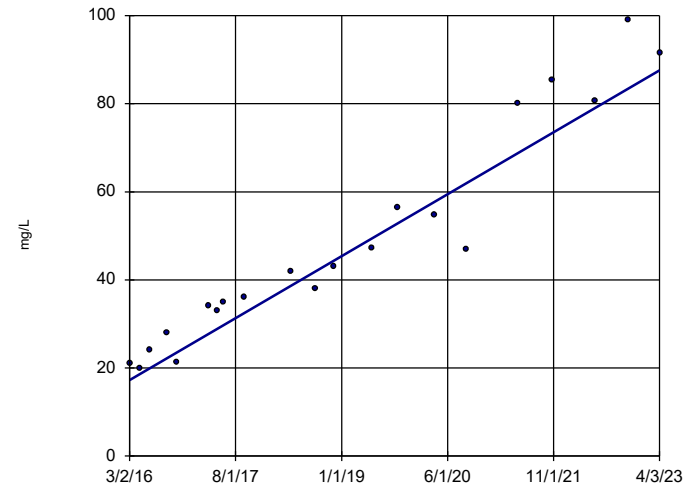


n = 21  
 Slope = 1.372  
 units per year.  
 Mann-Kendall  
 statistic = 114  
 critical = 87  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-15

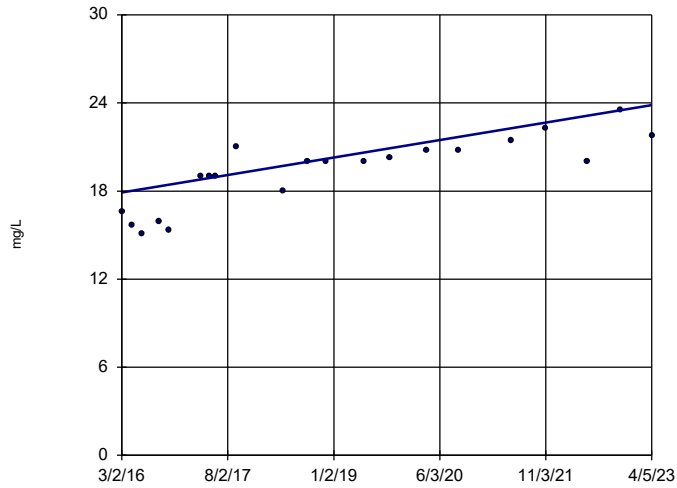


n = 21  
 Slope = 9.918  
 units per year.  
 Mann-Kendall  
 statistic = 188  
 critical = 87  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-16

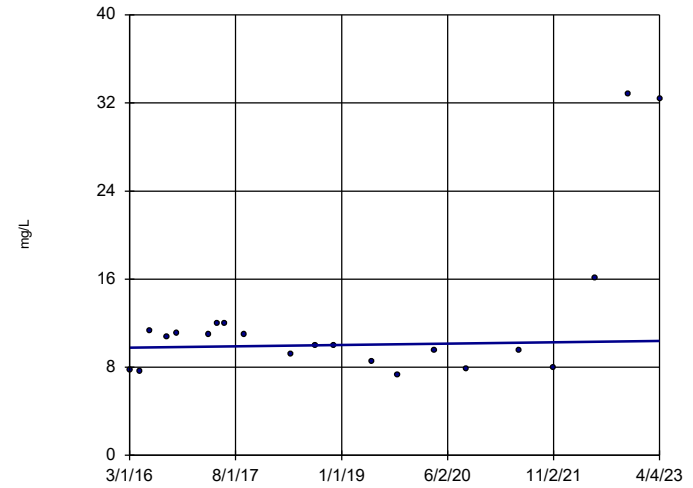


n = 21  
 Slope = 0.8385  
 units per year.  
 Mann-Kendall  
 statistic = 150  
 critical = 87  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-4

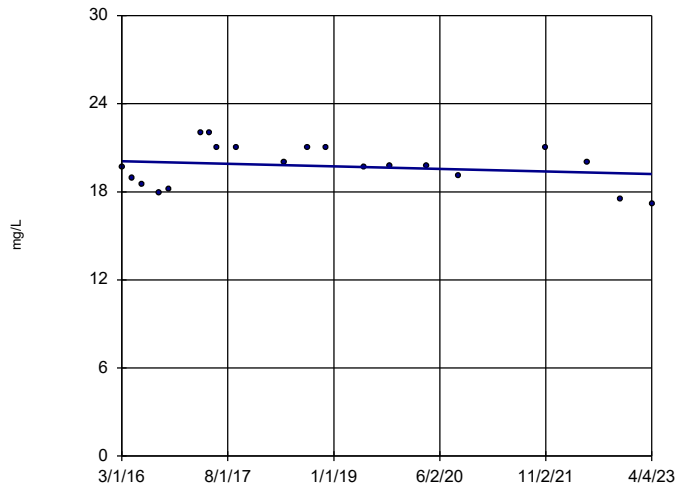


n = 21  
 Slope = 0.0839  
 units per year.  
 Mann-Kendall  
 statistic = 11  
 critical = 87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-5

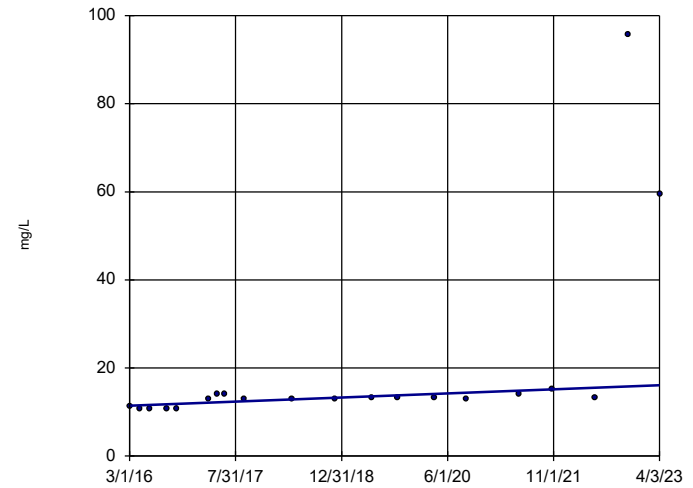


n = 20  
 Slope = -0.1245  
 units per year.  
 Mann-Kendall  
 statistic = -22  
 critical = -81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-7

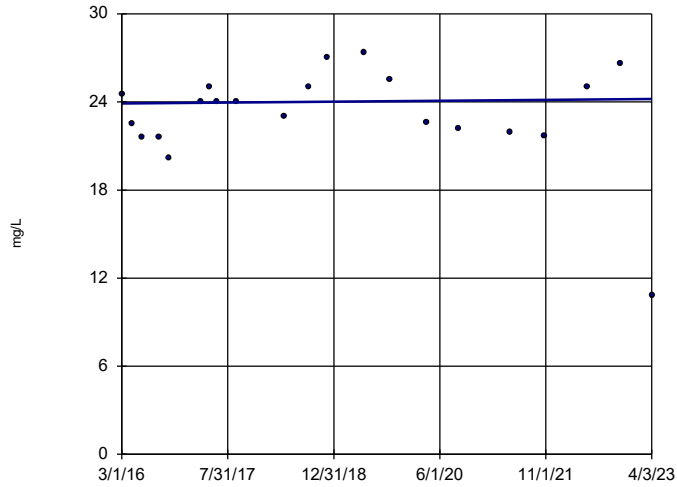


n = 20  
 Slope = 0.6631  
 units per year.  
 Mann-Kendall  
 statistic = 110  
 critical = 81  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-8

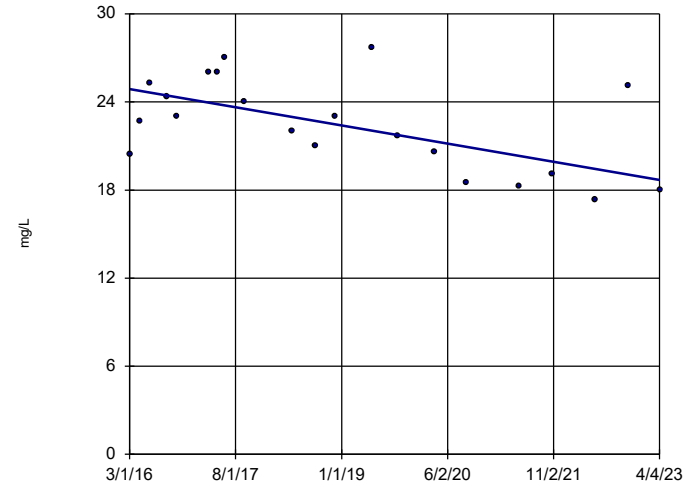


n = 21  
 Slope = 0.04311  
 units per year.  
 Mann-Kendall  
 statistic = 13  
 critical = 87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-9

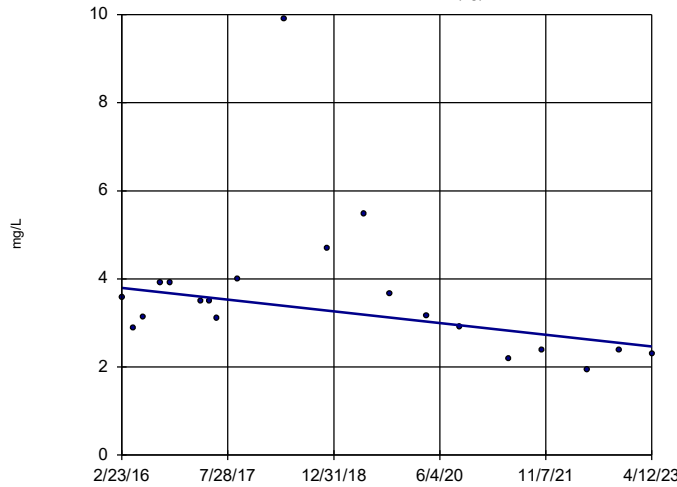


n = 21  
 Slope = -0.8711  
 units per year.  
 Mann-Kendall  
 statistic = -78  
 critical = -87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-UP-MW-1 (bg)

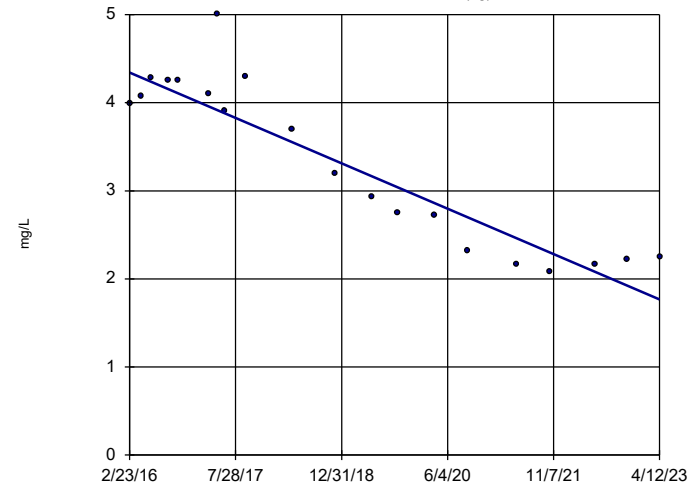


n = 20  
 Slope = -0.1864  
 units per year.  
 Mann-Kendall  
 statistic = -62  
 critical = -81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-UP-MW-2 (bg)

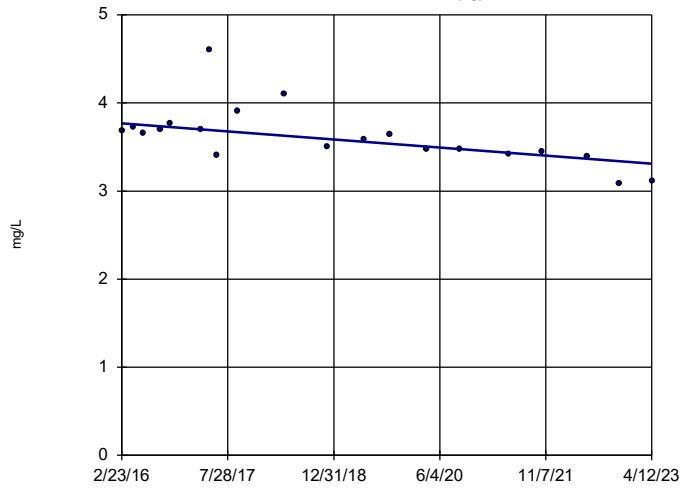


n = 20  
 Slope = -0.361  
 units per year.  
 Mann-Kendall  
 statistic = -127  
 critical = -81  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

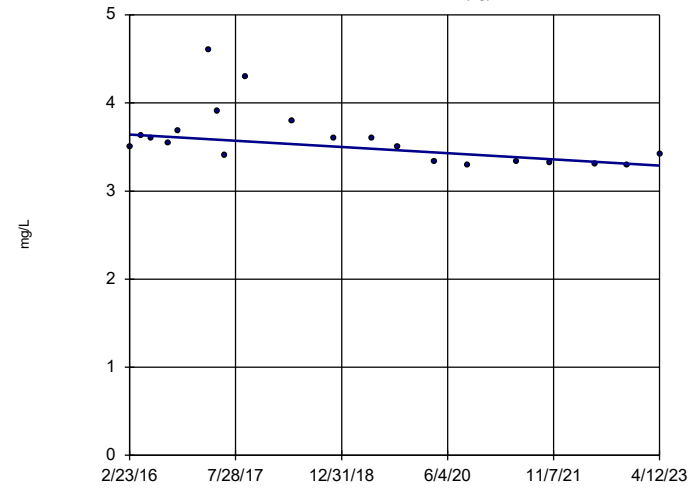
BY-UP-MW-3 (bg)



Constituent: Chloride, Total Analysis Run 6/7/2023 12:13 AM View: Trend  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

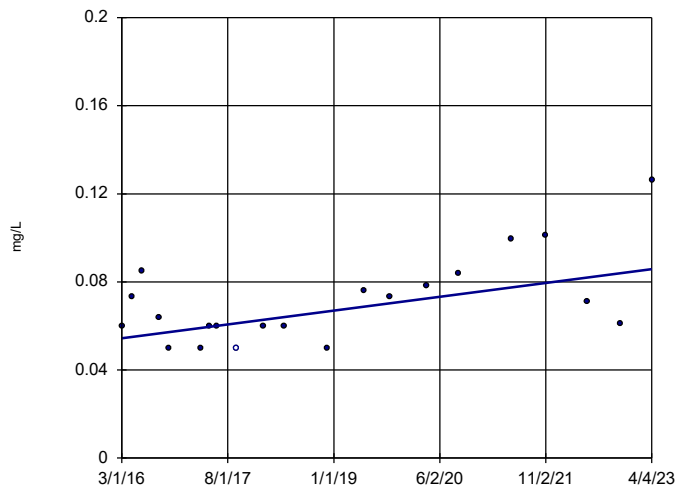
BY-UP-MW-4 (bg)



Constituent: Chloride, Total Analysis Run 6/7/2023 12:13 AM View: Trend  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

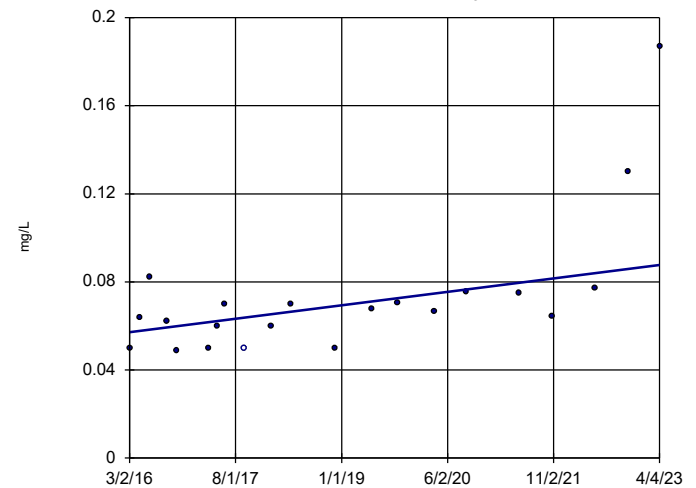
BY-AP-MW-11



Constituent: Fluoride, total Analysis Run 6/7/2023 12:13 AM View: Trend  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

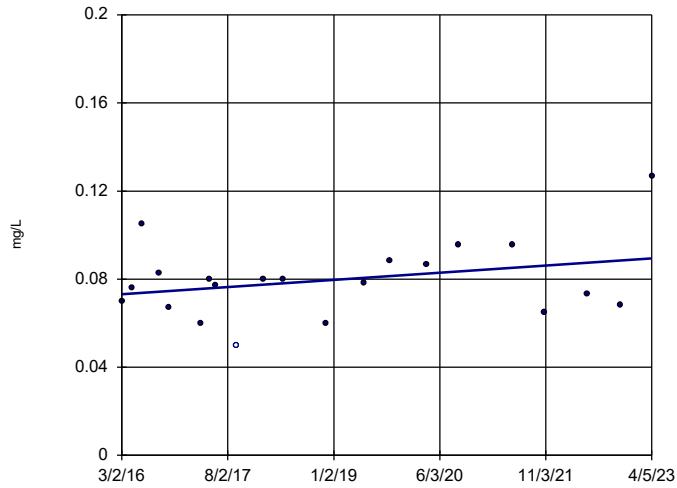
BY-AP-MW-13



Constituent: Fluoride, total Analysis Run 6/7/2023 12:13 AM View: Trend  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-14

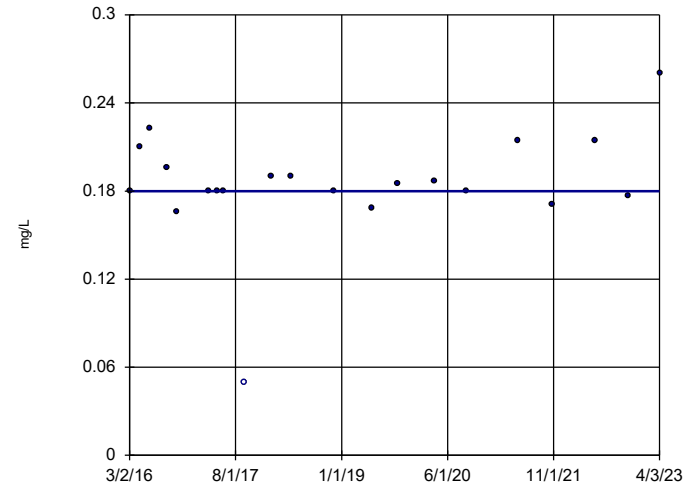


n = 21  
Slope = 0.002285  
units per year.  
Mann-Kendall  
statistic = 33  
critical = 87  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Fluoride, total Analysis Run 6/7/2023 12:13 AM View: Trend  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-15

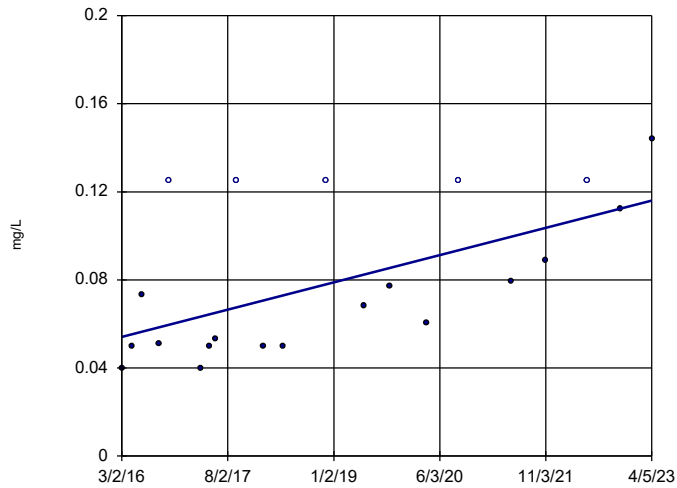


n = 21  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 9  
critical = 87  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Fluoride, total Analysis Run 6/7/2023 12:13 AM View: Trend  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-16

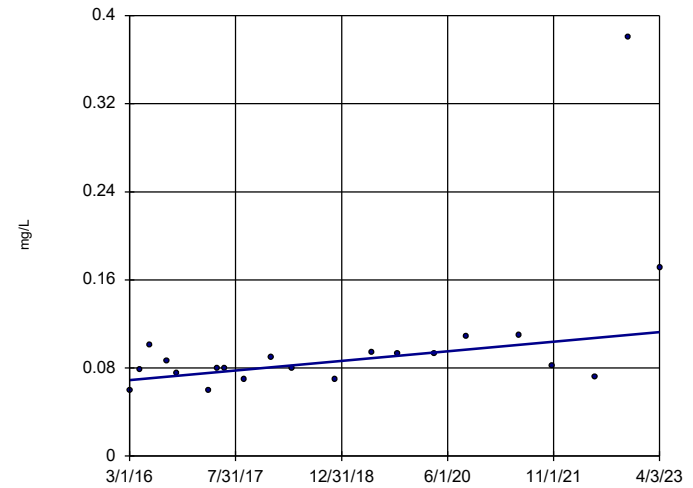


n = 21  
Slope = 0.008725  
units per year.  
Mann-Kendall  
statistic = 101  
critical = 87  
Increasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Fluoride, total Analysis Run 6/7/2023 12:13 AM View: Trend  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-7

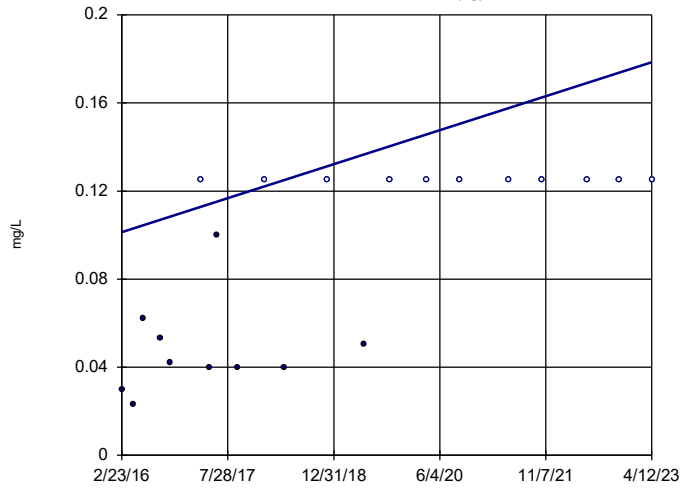


n = 21  
Slope = 0.006166  
units per year.  
Mann-Kendall  
statistic = 89  
critical = 87  
Increasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Fluoride, total Analysis Run 6/7/2023 12:13 AM View: Trend  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

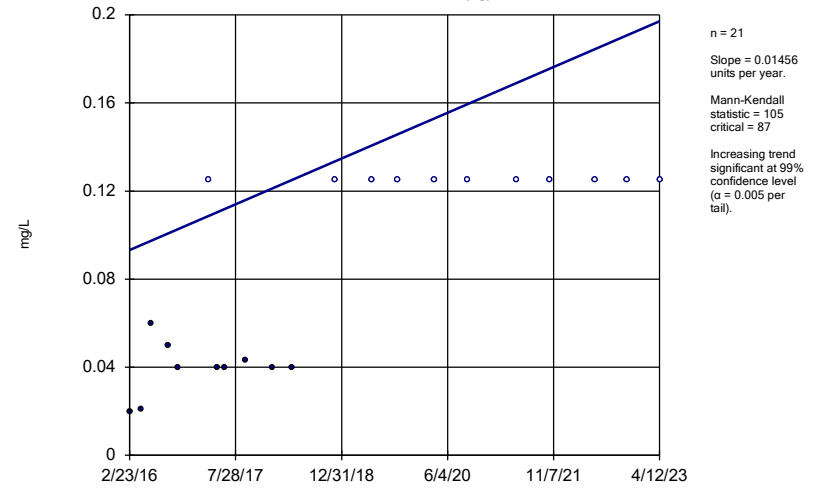
BY-UP-MW-1 (bg)



Constituent: Fluoride, total Analysis Run 6/7/2023 12:13 AM View: Trend  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

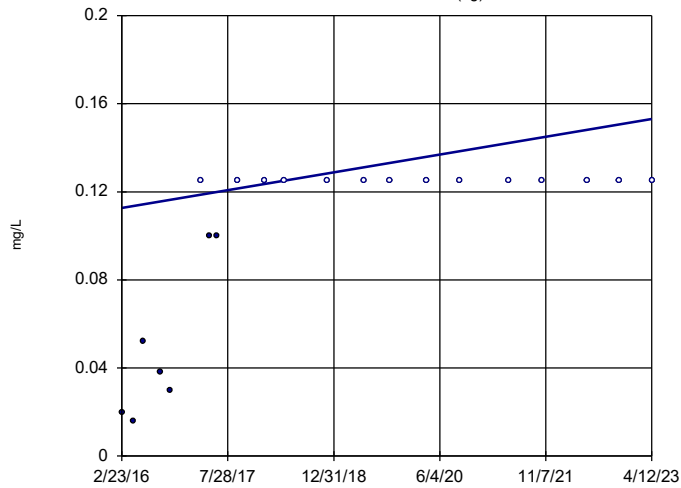
BY-UP-MW-2 (bg)



Constituent: Fluoride, total Analysis Run 6/7/2023 12:13 AM View: Trend  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

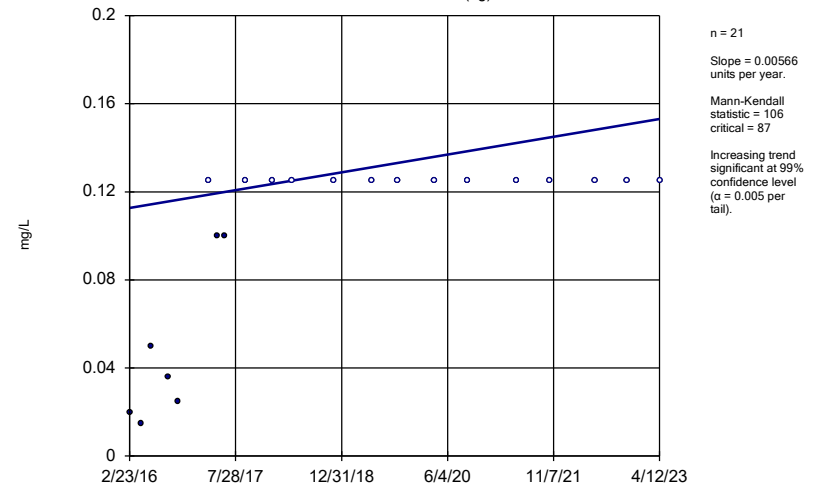
BY-UP-MW-3 (bg)



Constituent: Fluoride, total Analysis Run 6/7/2023 12:13 AM View: Trend  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

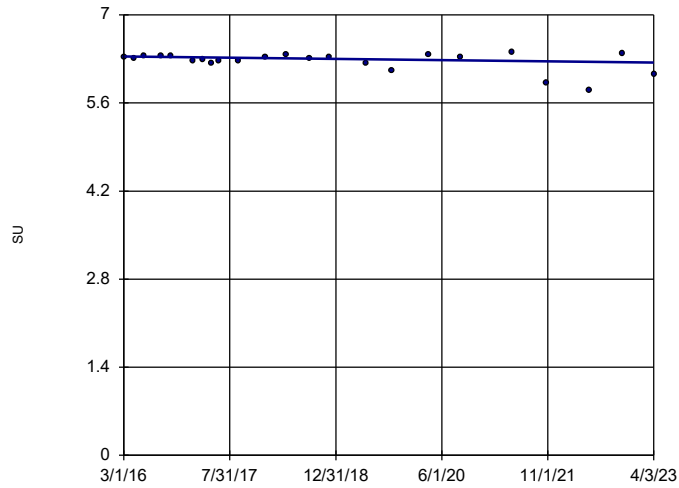
BY-UP-MW-4 (bg)



Constituent: Fluoride, total Analysis Run 6/7/2023 12:13 AM View: Trend  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-10

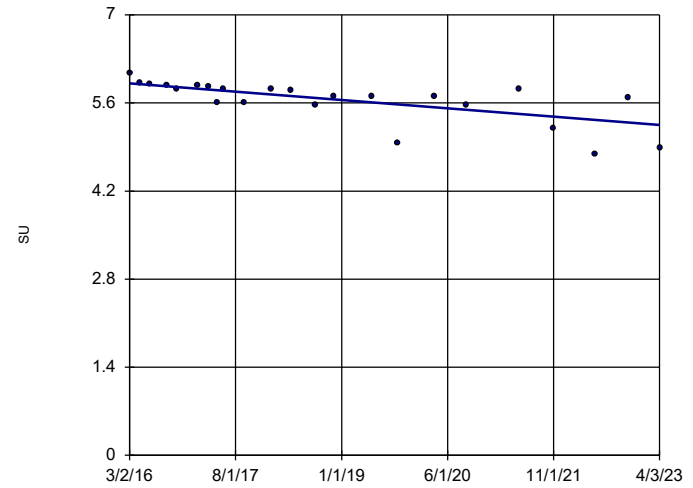


n = 23  
 Slope = -0.0135  
 units per year.  
 Mann-Kendall  
 statistic = -31  
 critical = -98  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: pH, field Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-2

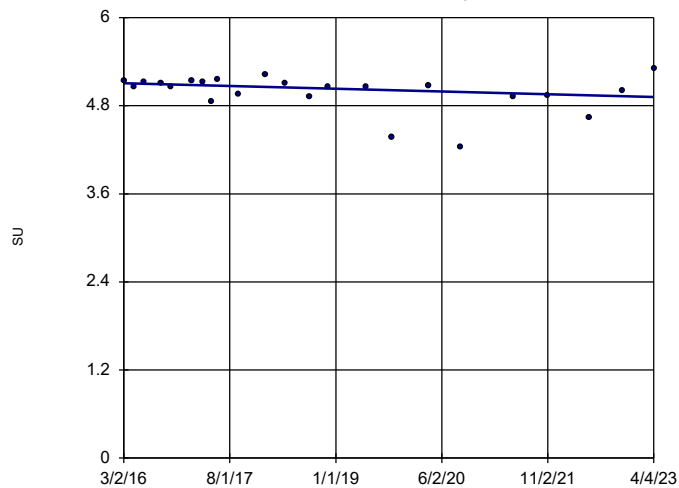


n = 23  
 Slope = -0.09288  
 units per year.  
 Mann-Kendall  
 statistic = -164  
 critical = -98  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: pH, field Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-3

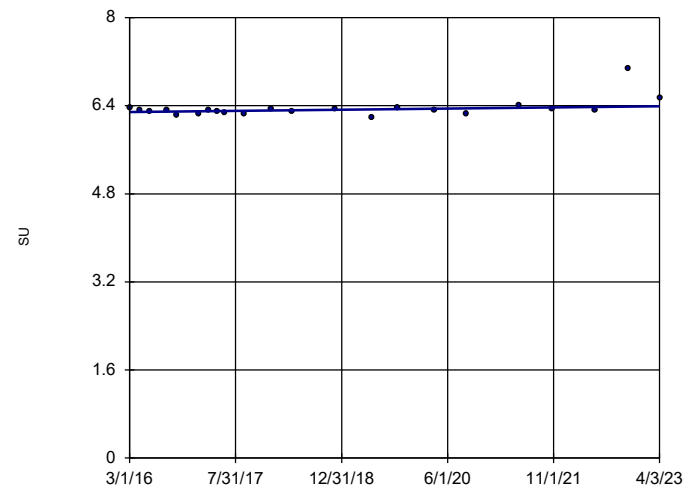


n = 23  
 Slope = -0.0262  
 units per year.  
 Mann-Kendall  
 statistic = -71  
 critical = -98  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: pH, field Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-7

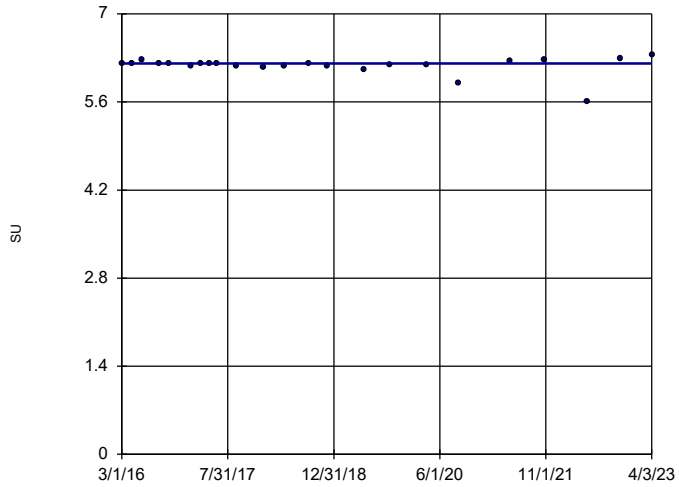


n = 22  
 Slope = 0.01492  
 units per year.  
 Mann-Kendall  
 statistic = 61  
 critical = 92  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: pH, field Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-8

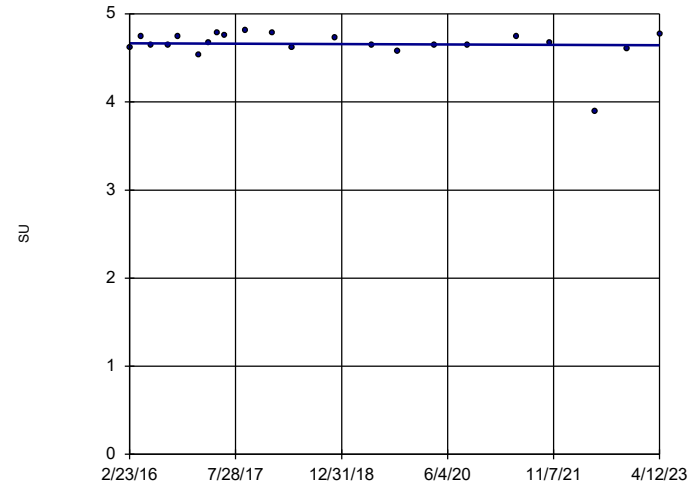


n = 23  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = -13  
 critical = -98  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: pH, field Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-UP-MW-1 (bg)

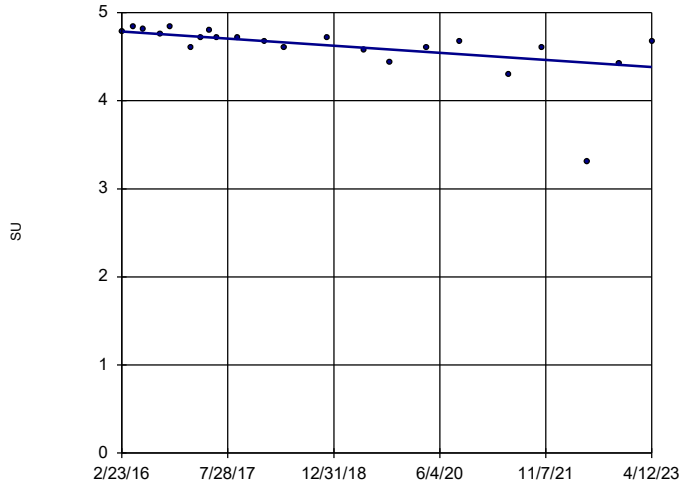


n = 22  
 Slope = -0.002988  
 units per year.  
 Mann-Kendall  
 statistic = -13  
 critical = -92  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: pH, field Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-UP-MW-2 (bg)

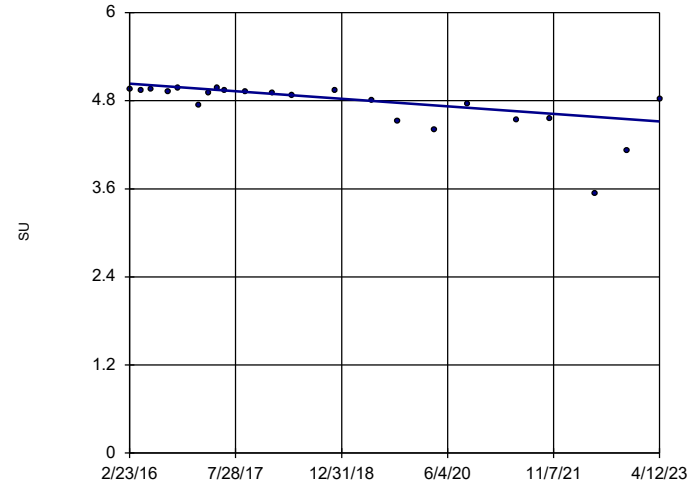


n = 22  
 Slope = -0.05688  
 units per year.  
 Mann-Kendall  
 statistic = -140  
 critical = -92  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: pH, field Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-UP-MW-3 (bg)



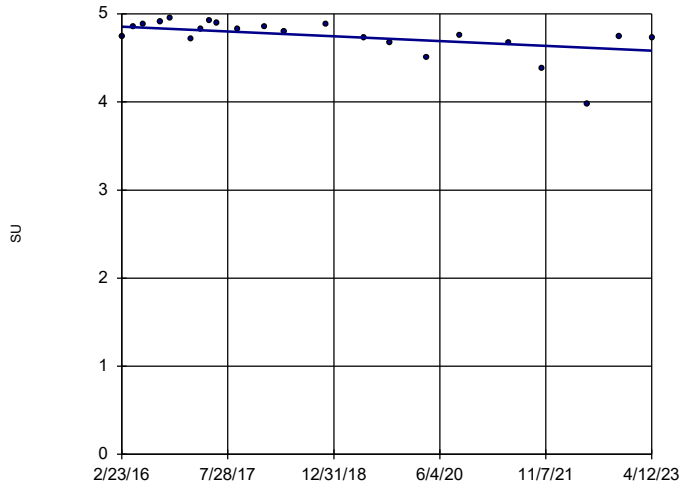
n = 22  
 Slope = -0.07203  
 units per year.  
 Mann-Kendall  
 statistic = -134  
 critical = -92  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: pH, field Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond



### Sen's Slope Estimator

BY-UP-MW-4 (bg)

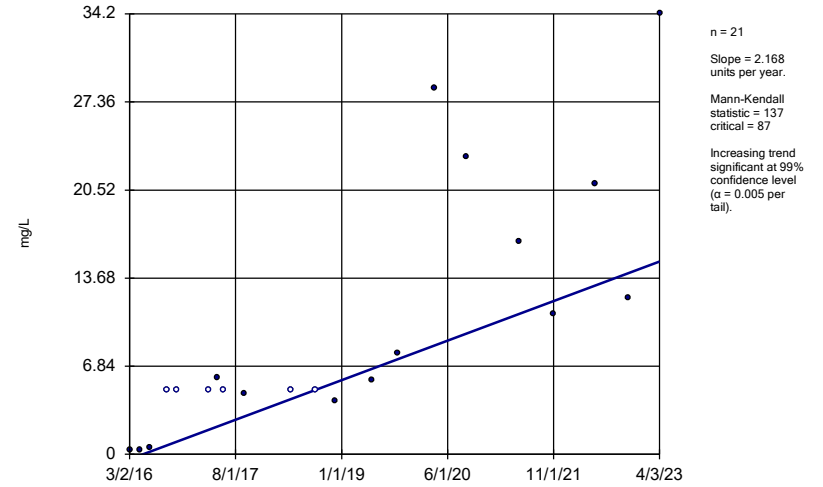


Constituent: pH, field Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Hollow symbols indicate censored values.

### Sen's Slope Estimator

BY-AP-MW-1

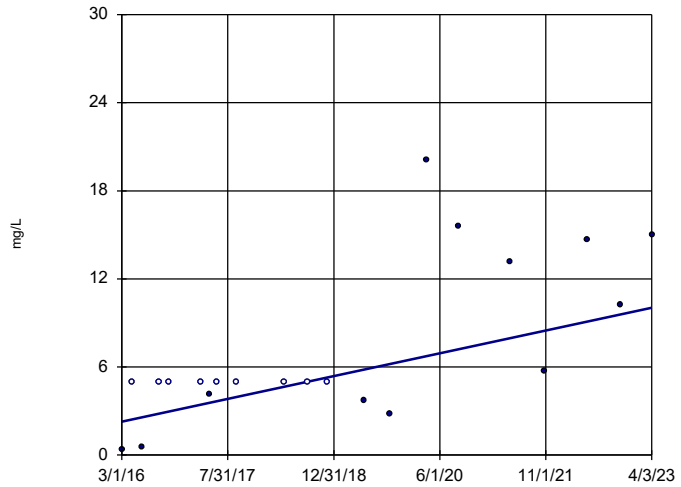


Constituent: Sulfate as SO4 Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Hollow symbols indicate censored values.

### Sen's Slope Estimator

BY-AP-MW-10

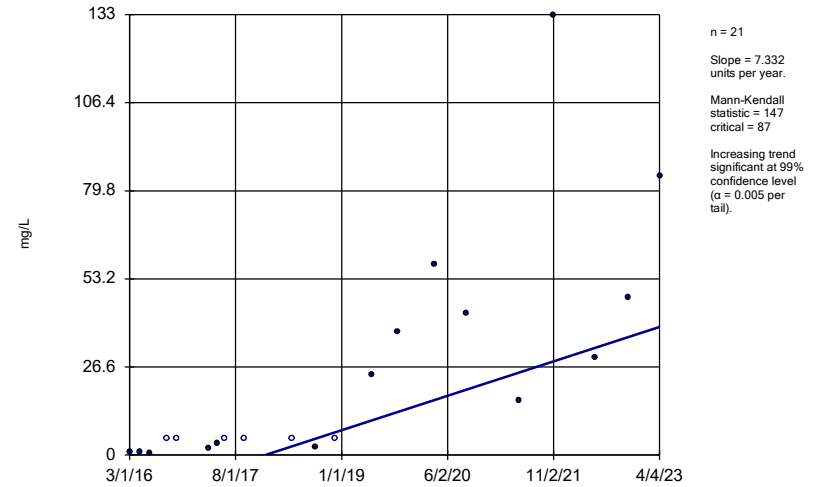


Constituent: Sulfate as SO4 Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Hollow symbols indicate censored values.

### Sen's Slope Estimator

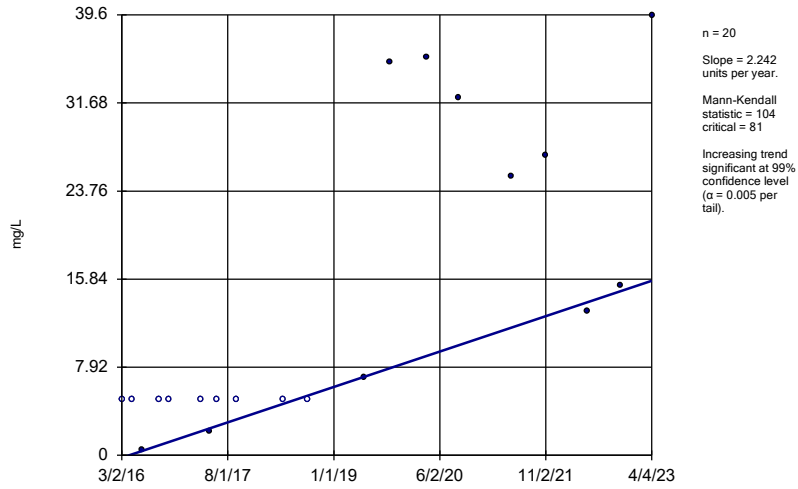
BY-AP-MW-11



Constituent: Sulfate as SO4 Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

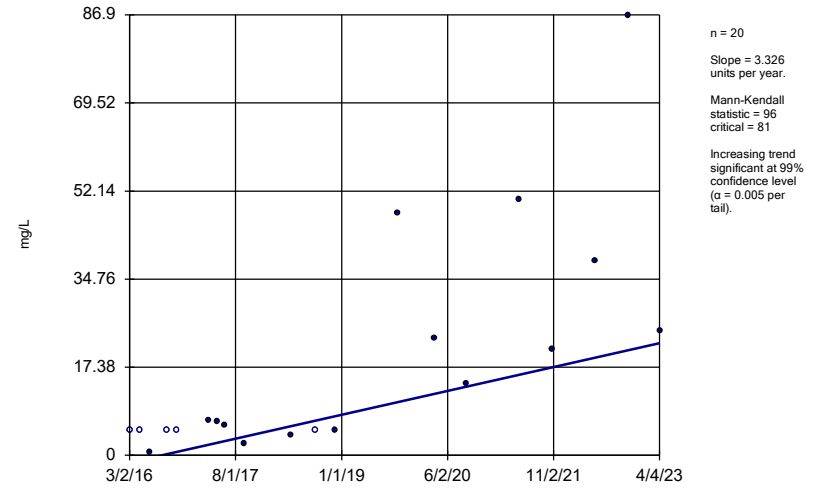
BY-AP-MW-12



Constituent: Sulfate as SO4 Analysis Run 6/7/2023 12:13 AM View: Trend  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

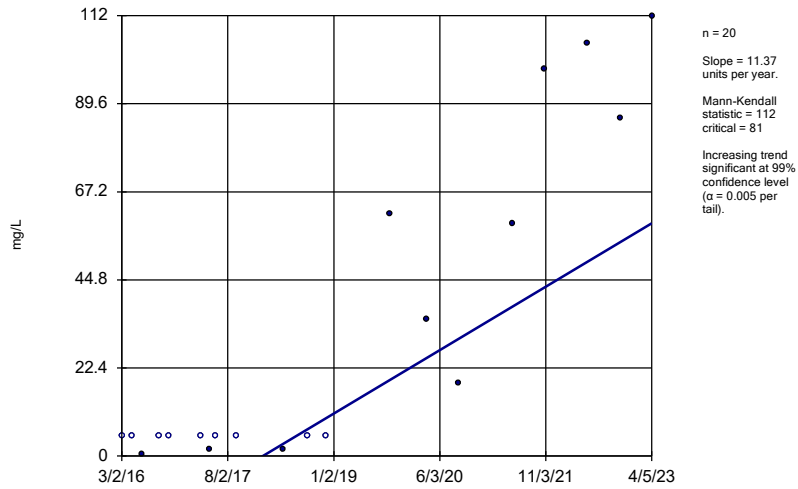
BY-AP-MW-13



Constituent: Sulfate as SO4 Analysis Run 6/7/2023 12:13 AM View: Trend  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

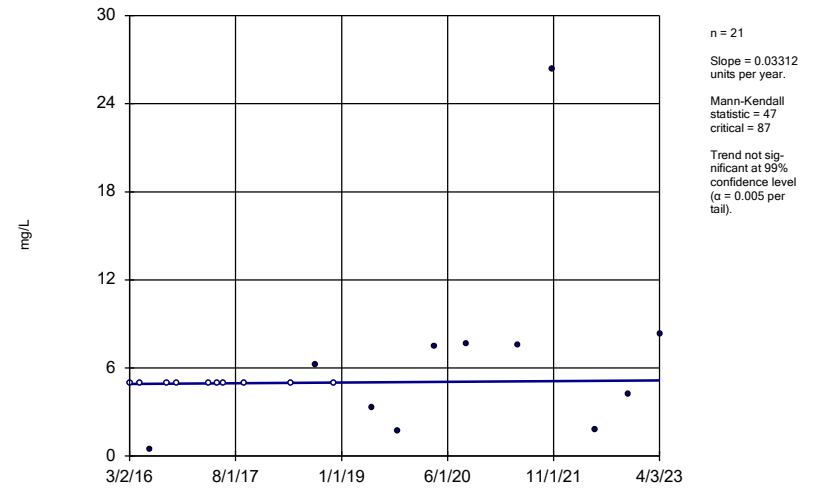
BY-AP-MW-14



Constituent: Sulfate as SO4 Analysis Run 6/7/2023 12:13 AM View: Trend  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

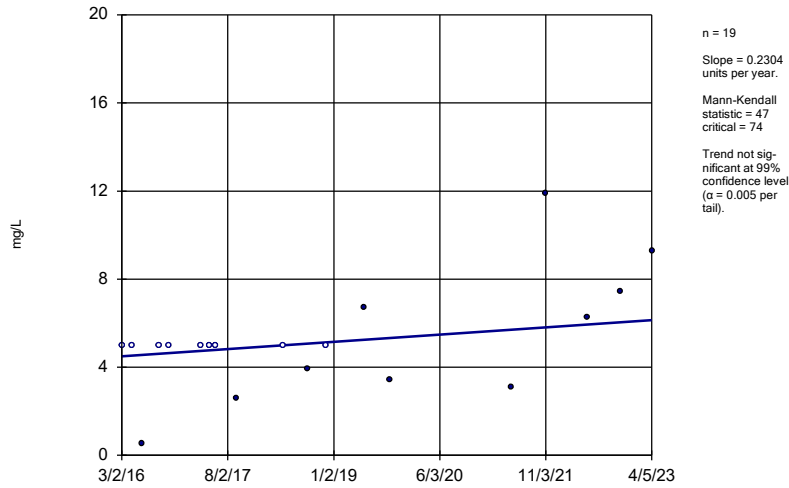
BY-AP-MW-15



Constituent: Sulfate as SO4 Analysis Run 6/7/2023 12:13 AM View: Trend  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

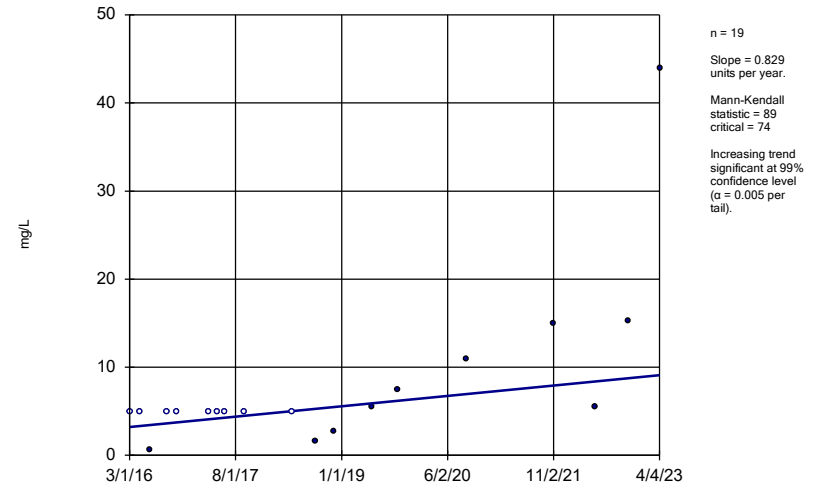
BY-AP-MW-16



Constituent: Sulfate as SO4 Analysis Run 6/7/2023 12:13 AM View: Trend  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

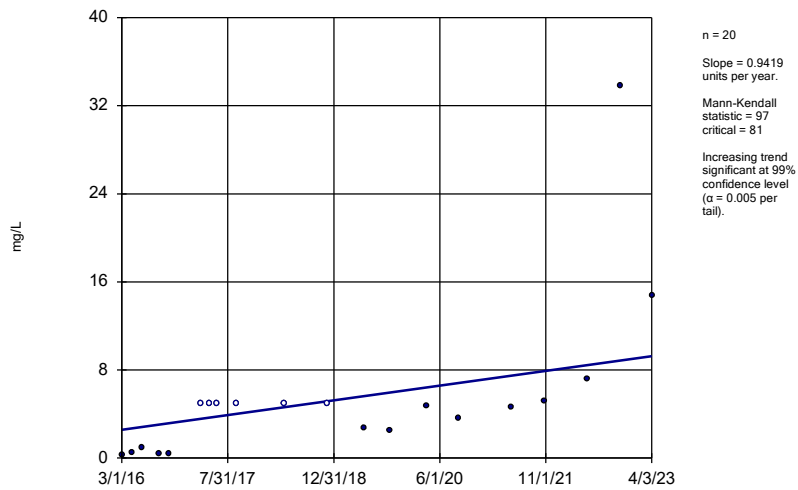
BY-AP-MW-5



Constituent: Sulfate as SO4 Analysis Run 6/7/2023 12:13 AM View: Trend  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

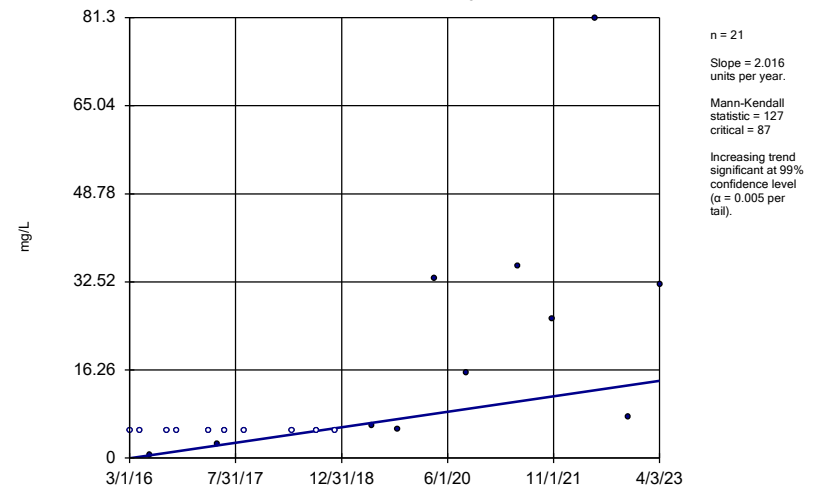
BY-AP-MW-7



Constituent: Sulfate as SO4 Analysis Run 6/7/2023 12:13 AM View: Trend  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

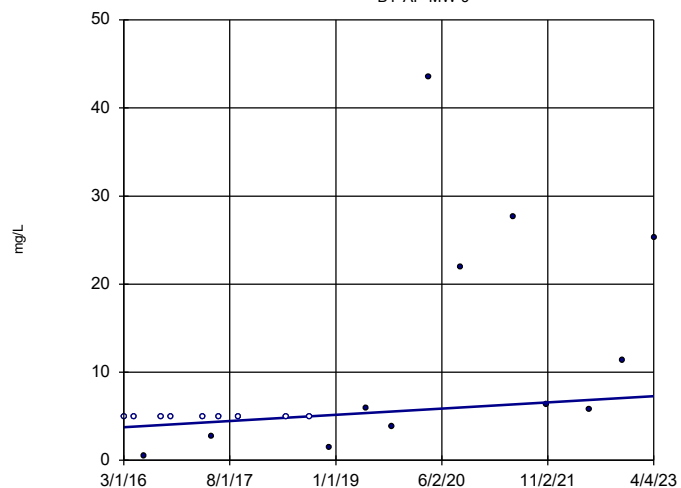
BY-AP-MW-8



Constituent: Sulfate as SO4 Analysis Run 6/7/2023 12:13 AM View: Trend  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

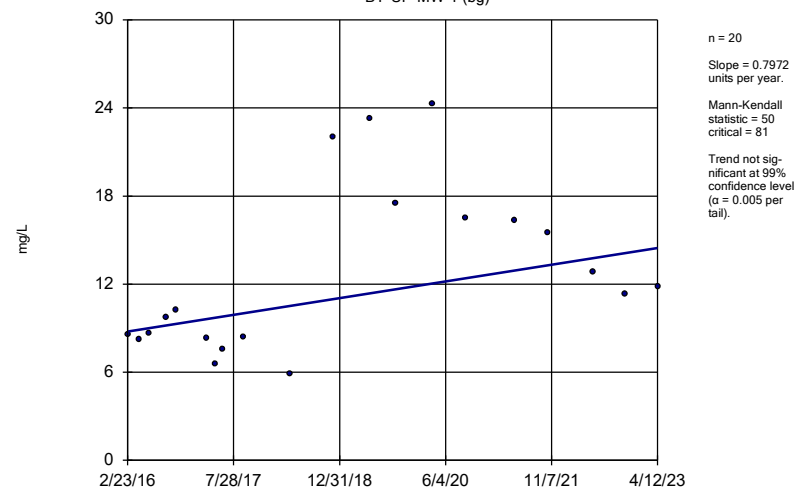
BY-AP-MW-9



Constituent: Sulfate as SO4 Analysis Run 6/7/2023 12:13 AM View: Trend  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

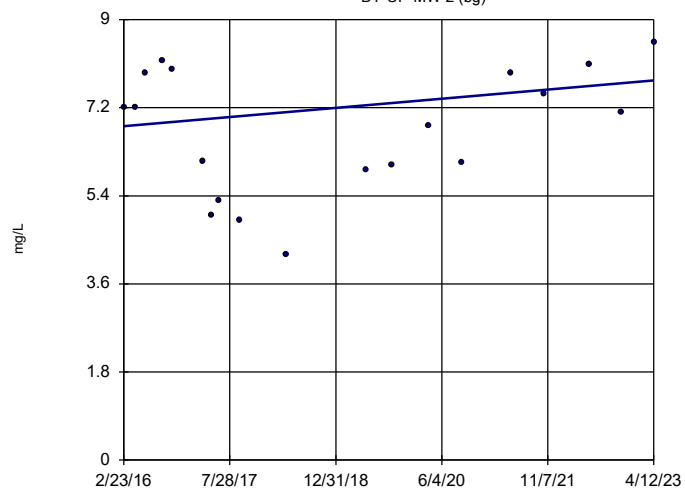
BY-UP-MW-1 (bg)



Constituent: Sulfate as SO4 Analysis Run 6/7/2023 12:13 AM View: Trend  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

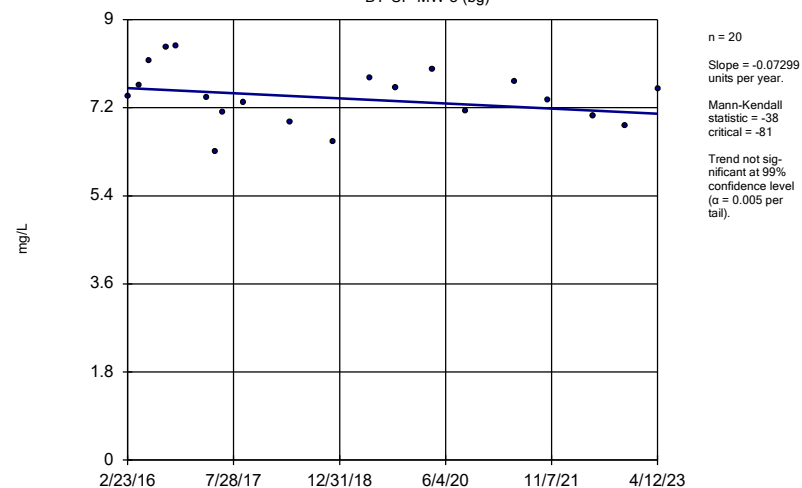
BY-UP-MW-2 (bg)



Constituent: Sulfate as SO4 Analysis Run 6/7/2023 12:13 AM View: Trend  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

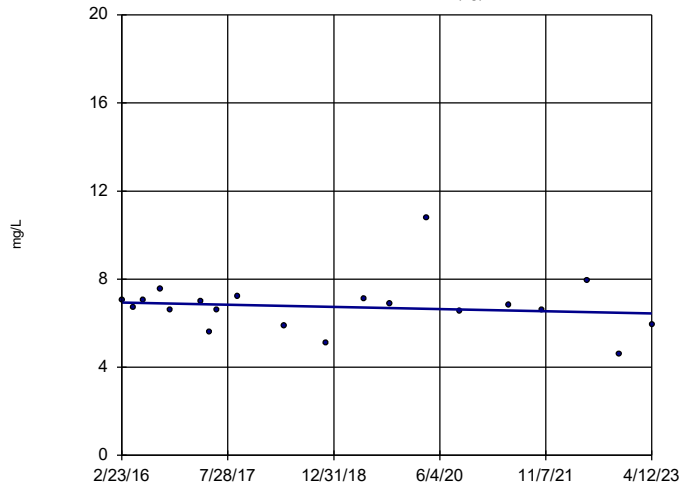
BY-UP-MW-3 (bg)



Constituent: Sulfate as SO4 Analysis Run 6/7/2023 12:13 AM View: Trend  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-UP-MW-4 (bg)

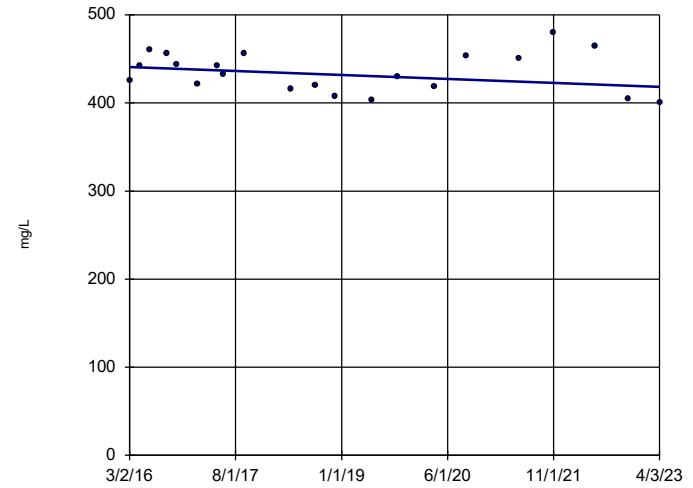


n = 20  
 Slope = -0.06997  
 units per year.  
 Mann-Kendall  
 statistic = -35  
 critical = -81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-1

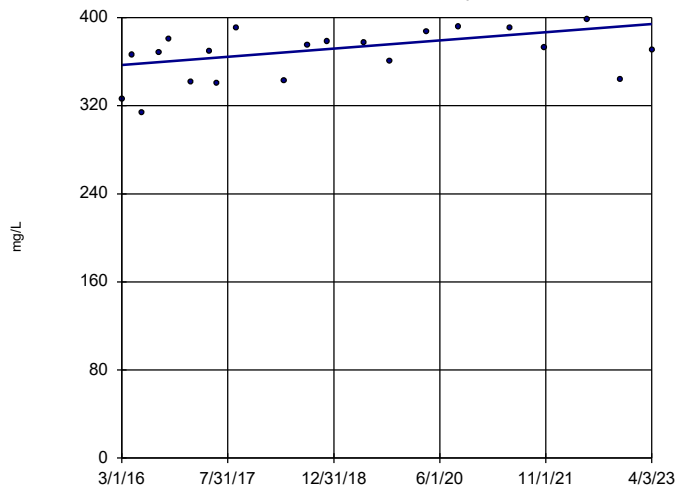


n = 21  
 Slope = -3.188  
 units per year.  
 Mann-Kendall  
 statistic = -36  
 critical = -87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: TDS Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-10

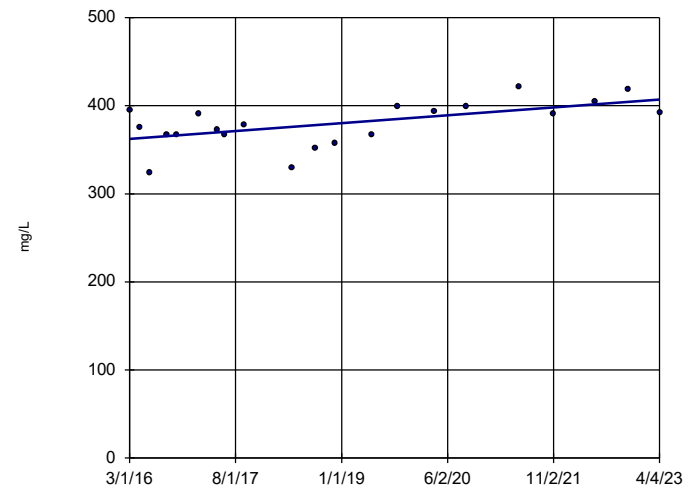


n = 21  
 Slope = 5.242  
 units per year.  
 Mann-Kendall  
 statistic = 79  
 critical = 87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: TDS Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-11

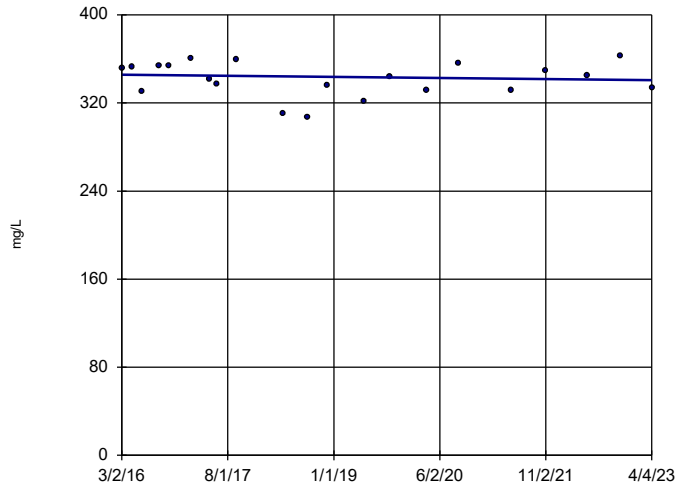


n = 21  
 Slope = 6.294  
 units per year.  
 Mann-Kendall  
 statistic = 77  
 critical = 87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: TDS Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-12

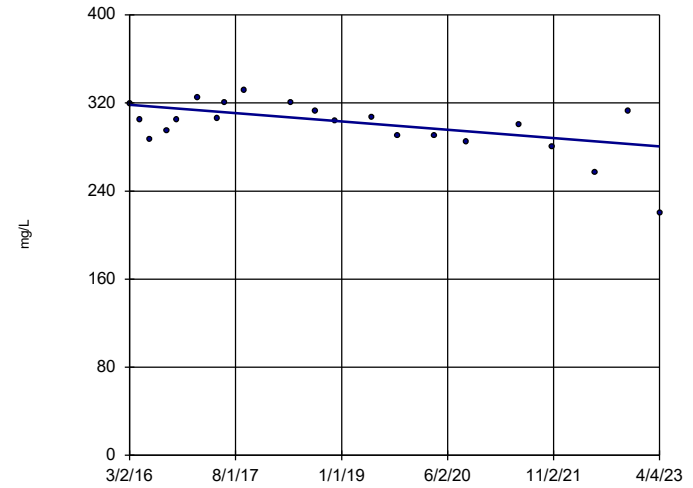


n = 21  
 Slope = -0.6998  
 units per year.  
 Mann-Kendall  
 statistic = -9  
 critical = -87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: TDS Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-13

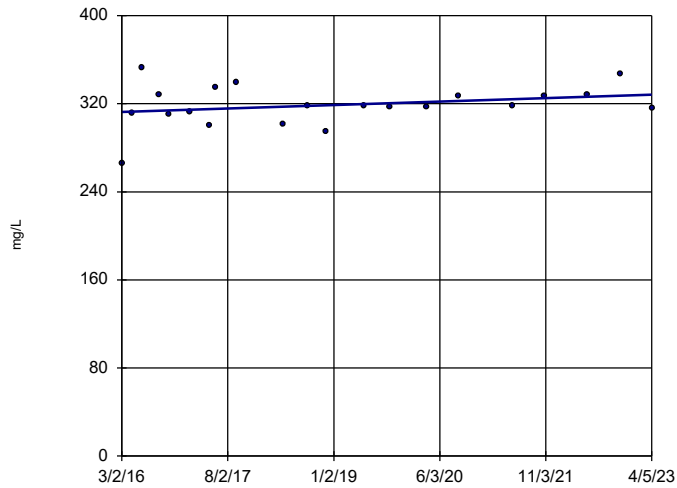


n = 21  
 Slope = -5.299  
 units per year.  
 Mann-Kendall  
 statistic = -75  
 critical = -87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: TDS Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-14

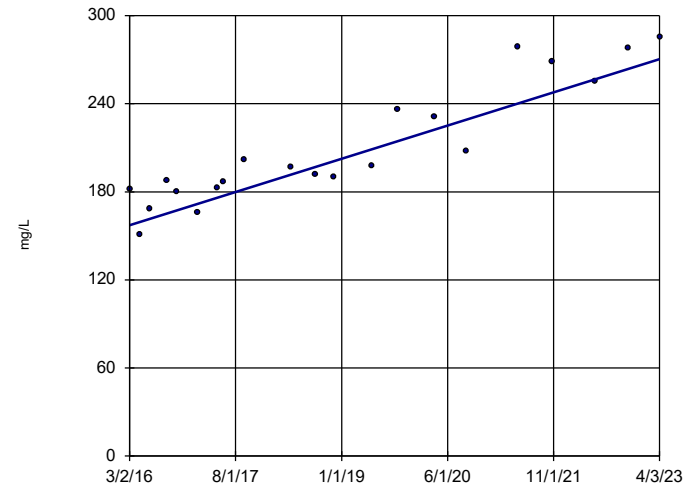


n = 21  
 Slope = 2.236  
 units per year.  
 Mann-Kendall  
 statistic = 44  
 critical = 87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: TDS Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-15

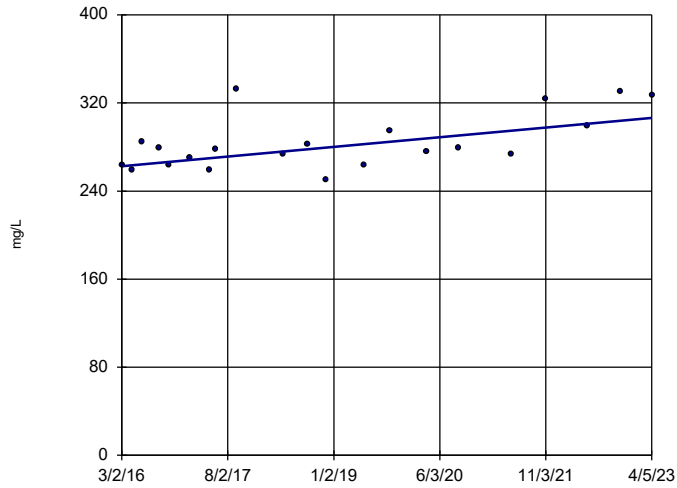


n = 21  
 Slope = 15.94  
 units per year.  
 Mann-Kendall  
 statistic = 162  
 critical = 87  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: TDS Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-16

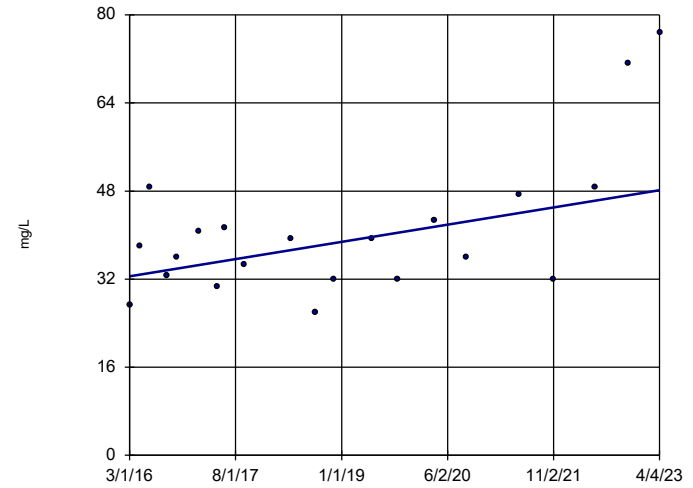


n = 21  
 Slope = 6.148  
 units per year.  
 Mann-Kendall  
 statistic = 82  
 critical = 87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: TDS Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-4

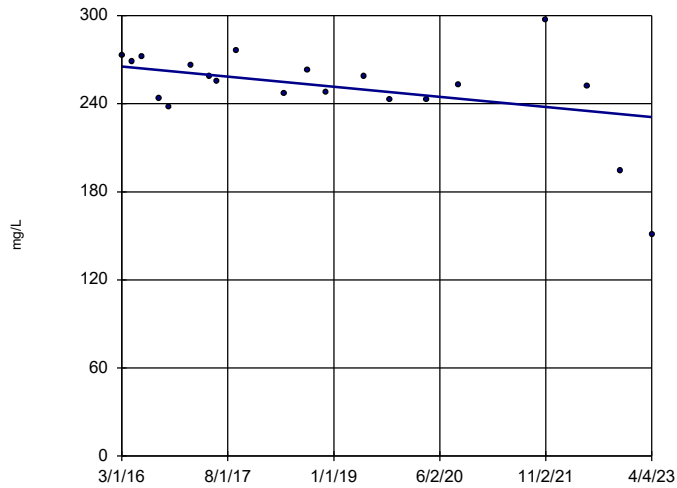


n = 21  
 Slope = 2.211  
 units per year.  
 Mann-Kendall  
 statistic = 64  
 critical = 87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: TDS Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-5

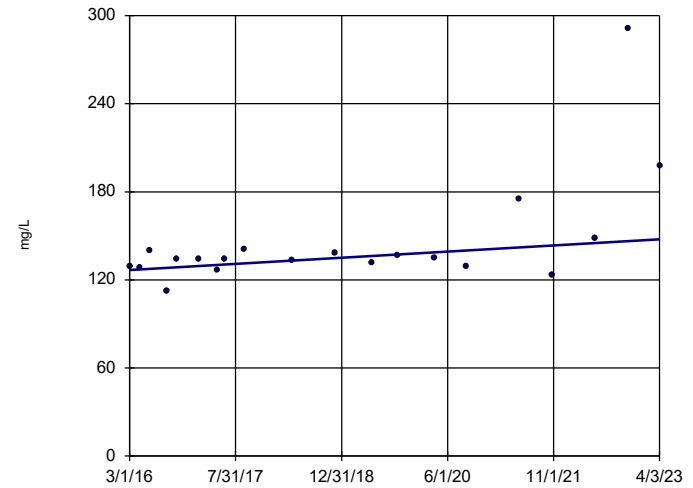


n = 20  
 Slope = -4.862  
 units per year.  
 Mann-Kendall  
 statistic = -68  
 critical = -81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: TDS Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-7

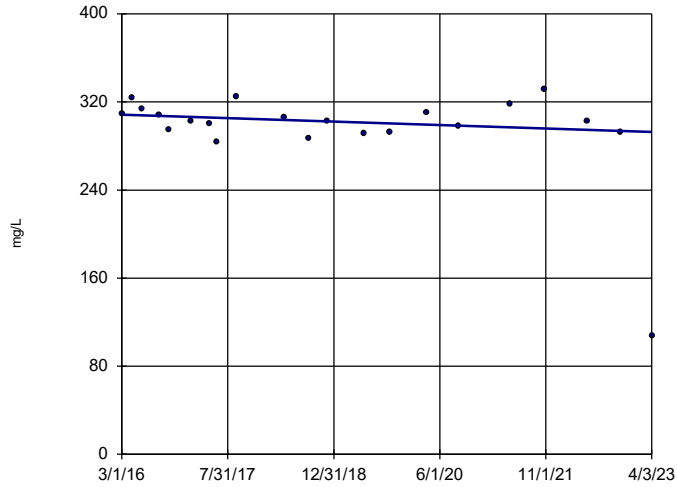


n = 20  
 Slope = 2.958  
 units per year.  
 Mann-Kendall  
 statistic = 66  
 critical = 81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: TDS Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-8

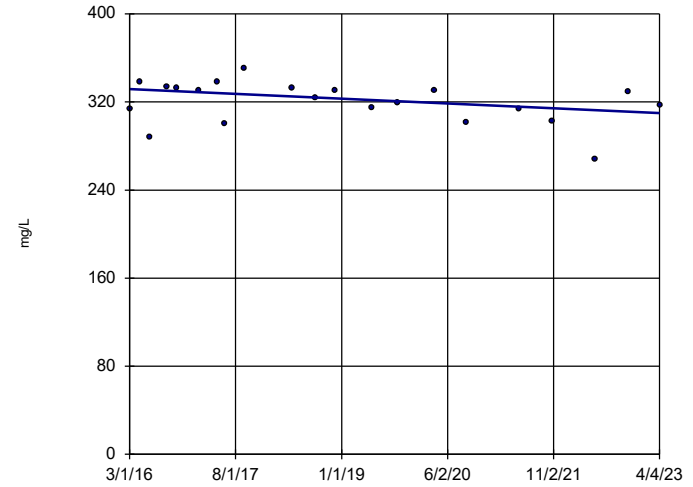


n = 21  
 Slope = -2.208  
 units per year.  
 Mann-Kendall  
 statistic = -40  
 critical = -87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: TDS Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-AP-MW-9

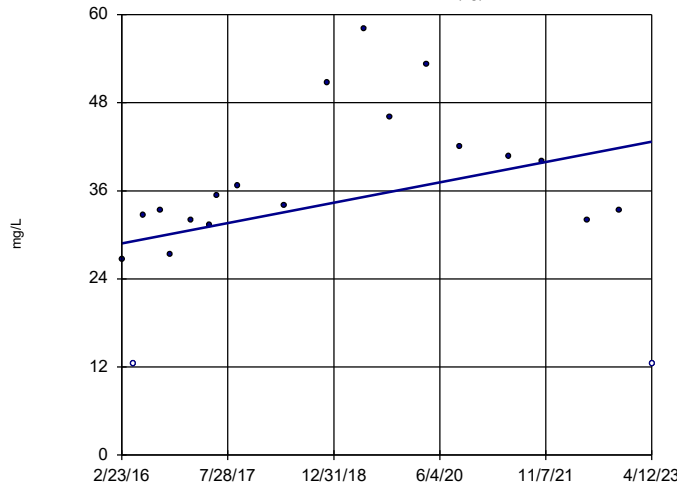


n = 21  
 Slope = -3.065  
 units per year.  
 Mann-Kendall  
 statistic = -62  
 critical = -87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: TDS Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-UP-MW-1 (bg)

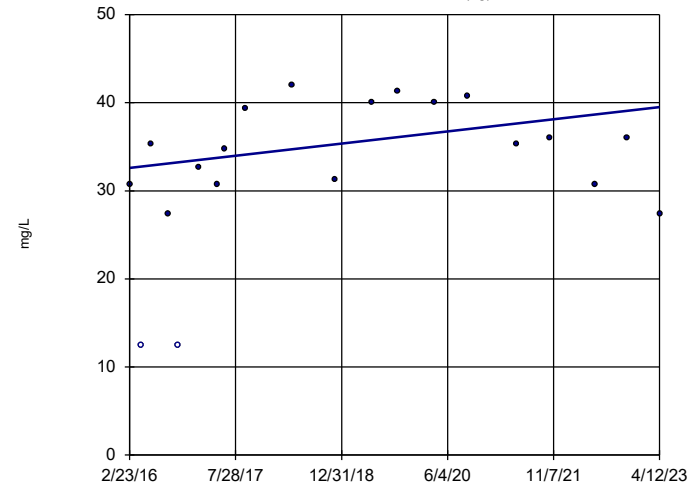


n = 20  
 Slope = 1.942  
 units per year.  
 Mann-Kendall  
 statistic = 51  
 critical = 81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: TDS Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-UP-MW-2 (bg)



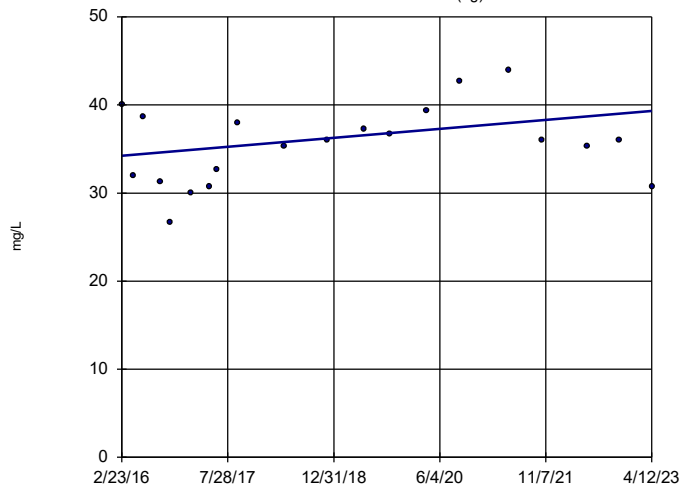
n = 20  
 Slope = 0.9688  
 units per year.  
 Mann-Kendall  
 statistic = 48  
 critical = 81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: TDS Analysis Run 6/7/2023 12:13 AM View: Trend  
 Plant Barry Client: Southern Company Data: Barry Ash Pond



### Sen's Slope Estimator

BY-UP-MW-3 (bg)

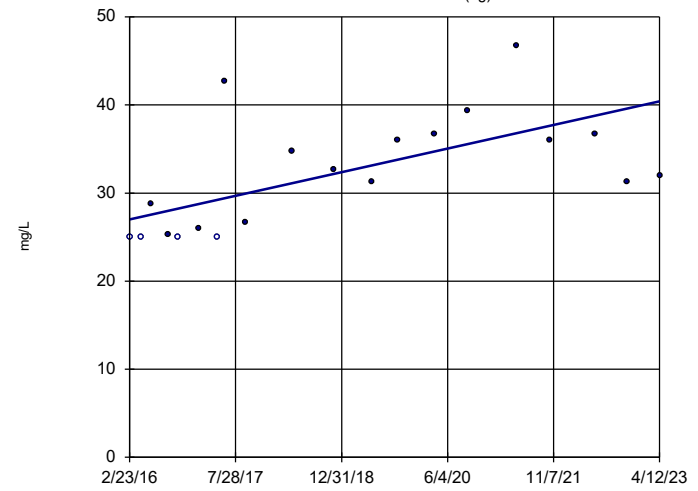


n = 20  
Slope = 0.7112  
units per year.  
Mann-Kendall  
statistic = 31  
critical = 81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: TDS Analysis Run 6/7/2023 12:13 AM View: Trend  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Sen's Slope Estimator

BY-UP-MW-4 (bg)



n = 20  
Slope = 1.876  
units per year.  
Mann-Kendall  
statistic = 95  
critical = 81  
Increasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: TDS Analysis Run 6/7/2023 12:13 AM View: Trend  
Plant Barry Client: Southern Company Data: Barry Ash Pond

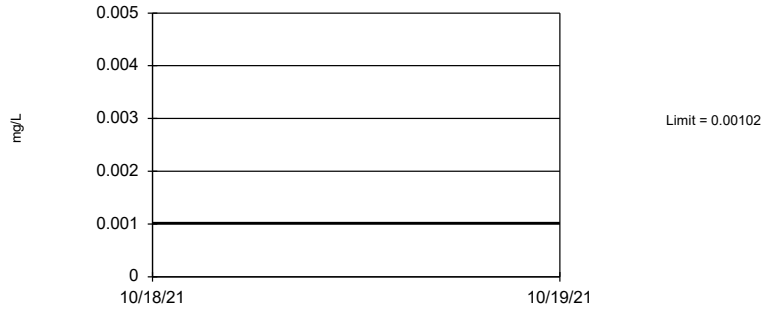
FIGURE G.

# Upper Tolerance Limits - Summary Table

Plant Barry    Client: Southern Company    Data: Barry Ash Pond    Printed 1/19/2022, 3:44 PM

| <u>Constituent</u>                | <u>Well</u> | <u>Upper Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bq N</u> | <u>Bq Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|-----------------------------------|-------------|-------------------|-------------|----------------|-------------|-------------|----------------|------------------|-------------|----------------|------------------|--------------|---------------|
| Antimony (mg/L)                   | n/a         | 0.00102           | n/a         | n/a            | n/a         | 68          | n/a            | n/a              | 92.65       | n/a            | n/a              | 0.03056      | NP Inter      |
| Arsenic (mg/L)                    | n/a         | 0.0017            | n/a         | n/a            | n/a         | 68          | n/a            | n/a              | 88.24       | n/a            | n/a              | 0.03056      | NP Inter      |
| Barium (mg/L)                     | n/a         | 0.183             | n/a         | n/a            | n/a         | 68          | n/a            | n/a              | 0           | n/a            | n/a              | 0.03056      | NP Inter      |
| Beryllium (mg/L)                  | n/a         | 0.00102           | n/a         | n/a            | n/a         | 66          | n/a            | n/a              | 93.94       | n/a            | n/a              | 0.03387      | NP Inter      |
| Cadmium (mg/L)                    | n/a         | 0.0002            | n/a         | n/a            | n/a         | 68          | n/a            | n/a              | 98.53       | n/a            | n/a              | 0.03056      | NP Inter      |
| Chromium (mg/L)                   | n/a         | 0.01              | n/a         | n/a            | n/a         | 68          | n/a            | n/a              | 83.82       | n/a            | n/a              | 0.03056      | NP Inter      |
| Cobalt (mg/L)                     | n/a         | 0.0157            | n/a         | n/a            | n/a         | 67          | n/a            | n/a              | 58.21       | n/a            | n/a              | 0.03217      | NP Inter      |
| Combined Radium 226 + 228 (pCi/L) | n/a         | 3                 | n/a         | n/a            | n/a         | 60          | n/a            | n/a              | 0           | n/a            | n/a              | 0.04607      | NP Inter      |
| Fluoride, total (mg/L)            | n/a         | 0.1               | n/a         | n/a            | n/a         | 72          | n/a            | n/a              | 52.78       | n/a            | n/a              | 0.02489      | NP Inter      |
| Lead (mg/L)                       | n/a         | 0.00126           | n/a         | n/a            | n/a         | 68          | n/a            | n/a              | 89.71       | n/a            | n/a              | 0.03056      | NP Inter      |
| Lithium (mg/L)                    | n/a         | 0.02              | n/a         | n/a            | n/a         | 68          | n/a            | n/a              | 100         | n/a            | n/a              | 0.03056      | NP Inter      |
| Mercury (mg/L)                    | n/a         | 0.0005            | n/a         | n/a            | n/a         | 68          | n/a            | n/a              | 100         | n/a            | n/a              | 0.03056      | NP Inter      |
| Molybdenum (mg/L)                 | n/a         | 0.0002            | n/a         | n/a            | n/a         | 68          | n/a            | n/a              | 100         | n/a            | n/a              | 0.03056      | NP Inter      |
| Selenium (mg/L)                   | n/a         | 0.00102           | n/a         | n/a            | n/a         | 68          | n/a            | n/a              | 98.53       | n/a            | n/a              | 0.03056      | NP Inter      |
| Thallium (mg/L)                   | n/a         | 0.0002            | n/a         | n/a            | n/a         | 68          | n/a            | n/a              | 100         | n/a            | n/a              | 0.03056      | NP Inter      |

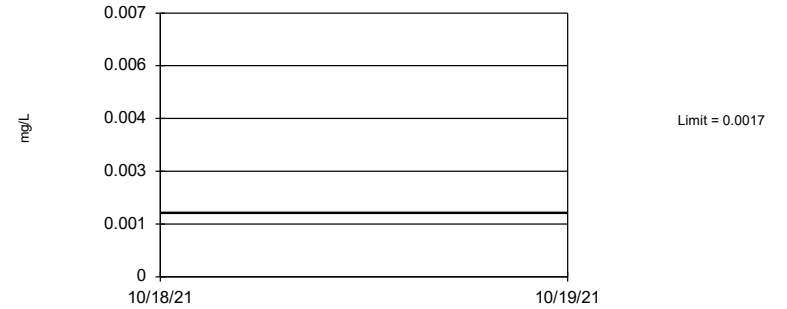
### Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 68 background values. 92.65% NDs. 93.55% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03056.

Constituent: Antimony Analysis Run 1/19/2022 3:43 PM View: Appendix IV - UTLs  
Plant Barry Client: Southern Company Data: Barry Ash Pond

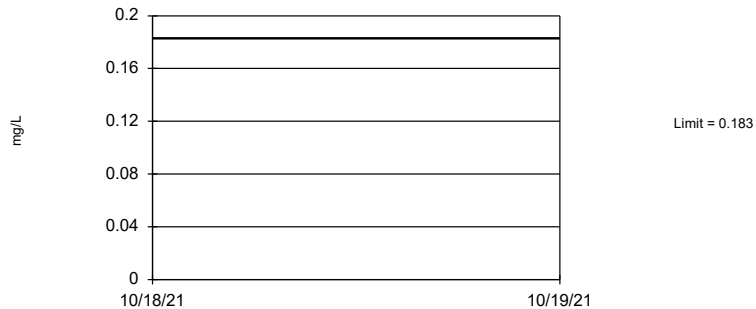
### Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 68 background values. 88.24% NDs. 93.55% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03056.

Constituent: Arsenic Analysis Run 1/19/2022 3:43 PM View: Appendix IV - UTLs  
Plant Barry Client: Southern Company Data: Barry Ash Pond

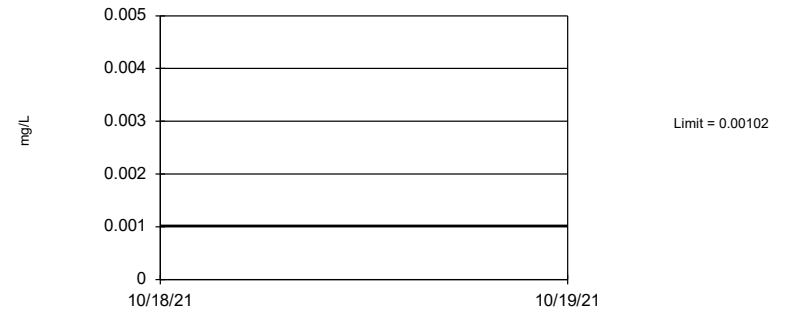
### Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 68 background values. 93.55% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03056.

Constituent: Barium Analysis Run 1/19/2022 3:43 PM View: Appendix IV - UTLs  
Plant Barry Client: Southern Company Data: Barry Ash Pond

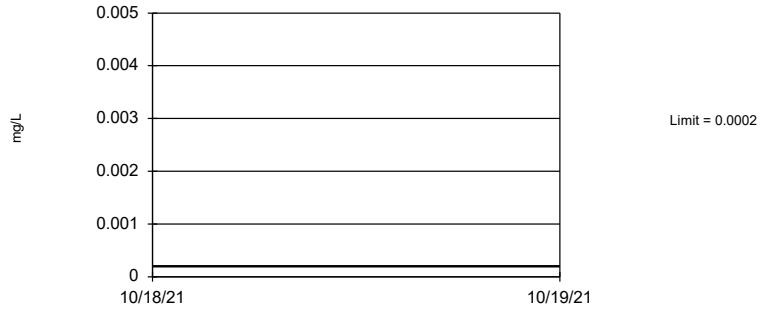
### Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 66 background values. 93.94% NDs. 93.16% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03387.

Constituent: Beryllium Analysis Run 1/19/2022 3:43 PM View: Appendix IV - UTLs  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Tolerance Limit  
Interwell Non-parametric



NP test selected by user. Limit is highest of 68 background values. 98.53% NDs. 93.55% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03056.

Constituent: Cadmium Analysis Run 1/19/2022 3:43 PM View: Appendix IV - UTLs  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Tolerance Limit  
Interwell Non-parametric



NP test selected by user. Limit is highest of 68 background values. 83.82% NDs. 93.55% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03056.

Constituent: Chromium Analysis Run 1/19/2022 3:43 PM View: Appendix IV - UTLs  
Plant Barry Client: Southern Company Data: Barry Ash Pond

Tolerance Limit  
Interwell Non-parametric



NP test selected by user. Limit is highest of 67 background values. 58.21% NDs. 93.16% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03217.

Constituent: Cobalt Analysis Run 1/19/2022 3:43 PM View: Appendix IV - UTLs  
Plant Barry Client: Southern Company Data: Barry Ash Pond

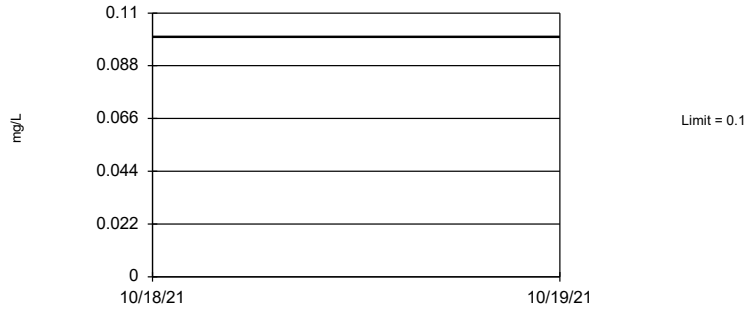
Tolerance Limit  
Interwell Non-parametric



NP test selected by user. Limit is highest of 60 background values. 92.77% coverage at alpha=0.01; 95.12% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.04607.

Constituent: Combined Radium 226 + 228 Analysis Run 1/19/2022 3:43 PM View: Appendix IV - UTLs  
Plant Barry Client: Southern Company Data: Barry Ash Pond

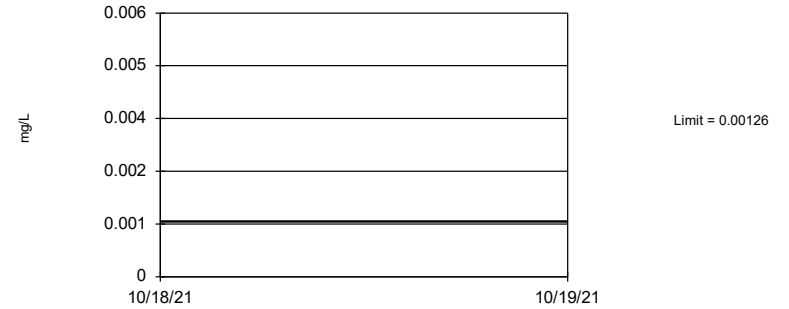
### Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 72 background values. 52.78% NDs. 93.95% coverage at alpha=0.01; 95.9% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.02489.

Constituent: Fluoride, total Analysis Run 1/19/2022 3:43 PM View: Appendix IV - UTLs  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 68 background values. 89.71% NDs. 93.55% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03056.

Constituent: Lead Analysis Run 1/19/2022 3:43 PM View: Appendix IV - UTLs  
Plant Barry Client: Southern Company Data: Barry Ash Pond

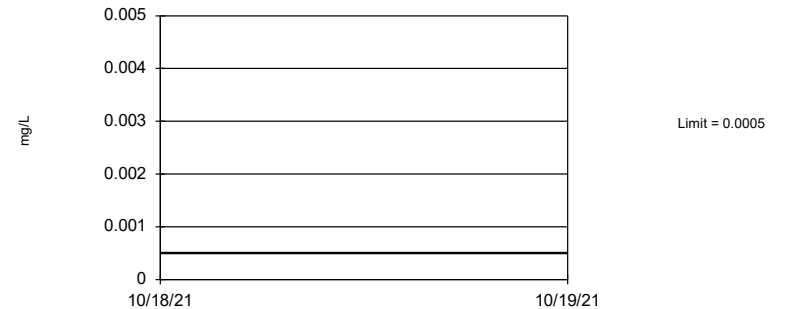
### Tolerance Limit Interwell Non-parametric



NP test selected by user. All background values were censored; limit is most recent reporting limit. 93.55% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03056.

Constituent: Lithium Analysis Run 1/19/2022 3:43 PM View: Appendix IV - UTLs  
Plant Barry Client: Southern Company Data: Barry Ash Pond

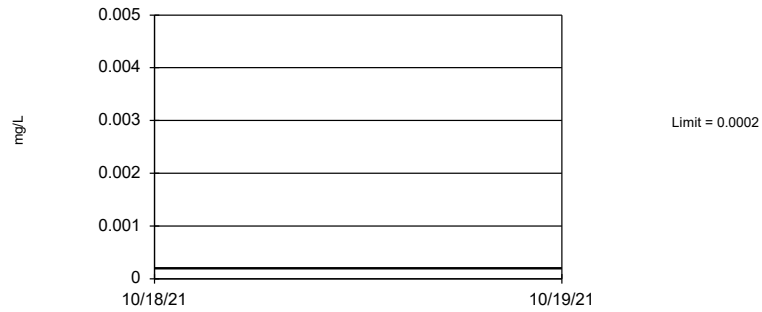
### Tolerance Limit Interwell Non-parametric



NP test selected by user. All background values were censored; limit is most recent reporting limit. 93.55% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03056.

Constituent: Mercury Analysis Run 1/19/2022 3:43 PM View: Appendix IV - UTLs  
Plant Barry Client: Southern Company Data: Barry Ash Pond

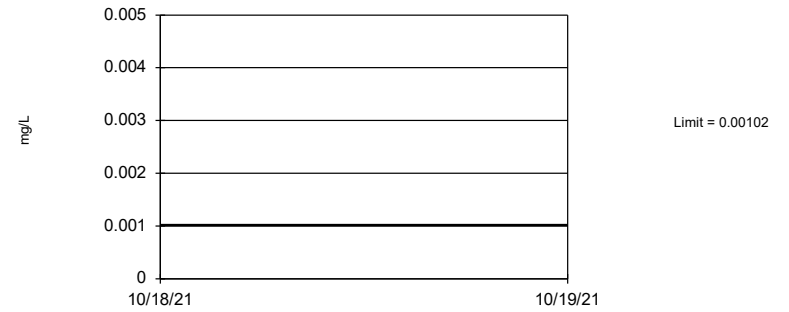
### Tolerance Limit Interwell Non-parametric



NP test selected by user. All background values were censored; limit is most recent reporting limit. 93.55% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03056.

Constituent: Molybdenum Analysis Run 1/19/2022 3:43 PM View: Appendix IV - UTLs  
Plant Barry Client: Southern Company Data: Barry Ash Pond

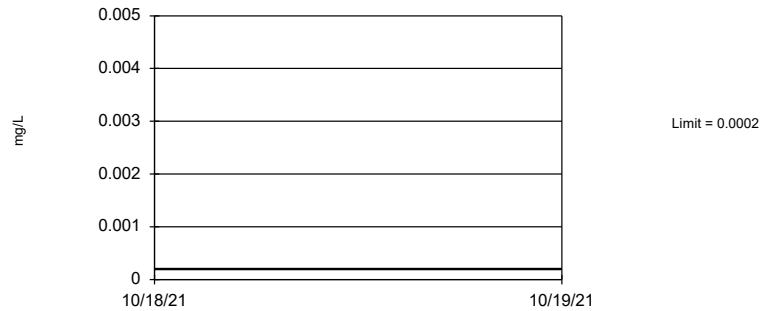
### Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 68 background values. 98.53% NDs. 93.55% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03056.

Constituent: Selenium Analysis Run 1/19/2022 3:43 PM View: Appendix IV - UTLs  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Tolerance Limit Interwell Non-parametric



NP test selected by user. All background values were censored; limit is most recent reporting limit. 93.55% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03056.

Constituent: Thallium Analysis Run 1/19/2022 3:43 PM View: Appendix IV - UTLs  
Plant Barry Client: Southern Company Data: Barry Ash Pond

FIGURE H.



| <b>BARRY ASH POND GWPS</b> |              |                   |             |
|----------------------------|--------------|-------------------|-------------|
| <b>Analyte</b>             | <b>Units</b> | <b>Background</b> | <b>GWPS</b> |
| 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. The background limits were used as the groundwater protection standard (GWPS) when appropriate under 40 CFR §257.95(h), ADEM Rule 335-13-15-.06(h), and the ADEM Variance.
4. GWPS established during second semi-annual sampling event in 2021.

FIGURE I.

# Confidence Interval Summary Table - Significant Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 6/22/2023, 11:30 AM

| Constituent    | Well        | Upper Lim. | Lower Lim. | Compliance | Sig. | N | %NDs | ND Adj. | Transform | Alpha | Method         |
|----------------|-------------|------------|------------|------------|------|---|------|---------|-----------|-------|----------------|
| Arsenic (mg/L) | BY-AP-MW-1  | 0.07707    | 0.06075    | 0.01       | Yes  | 8 | 0    | None    | No        | 0.01  | Param.         |
| Arsenic (mg/L) | BY-AP-MW-10 | 0.07752    | 0.06536    | 0.01       | Yes  | 8 | 0    | None    | x^4       | 0.01  | Param.         |
| Arsenic (mg/L) | BY-AP-MW-11 | 0.01656    | 0.01376    | 0.01       | Yes  | 8 | 0    | None    | No        | 0.01  | Param.         |
| Arsenic (mg/L) | BY-AP-MW-12 | 0.0246     | 0.0218     | 0.01       | Yes  | 8 | 0    | None    | No        | 0.004 | NP (normality) |
| Arsenic (mg/L) | BY-AP-MW-14 | 0.01806    | 0.01633    | 0.01       | Yes  | 8 | 0    | None    | x^4       | 0.01  | Param.         |
| Arsenic (mg/L) | BY-AP-MW-15 | 0.01982    | 0.01723    | 0.01       | Yes  | 8 | 0    | None    | No        | 0.01  | Param.         |
| Arsenic (mg/L) | BY-AP-MW-16 | 0.01561    | 0.01226    | 0.01       | Yes  | 8 | 0    | None    | No        | 0.01  | Param.         |
| Arsenic (mg/L) | BY-AP-MW-5  | 0.03662    | 0.02501    | 0.01       | Yes  | 8 | 0    | None    | No        | 0.01  | Param.         |
| Arsenic (mg/L) | BY-AP-MW-7  | 0.02364    | 0.01508    | 0.01       | Yes  | 8 | 0    | None    | x^3       | 0.01  | Param.         |
| Arsenic (mg/L) | BY-AP-MW-8  | 0.06782    | 0.03745    | 0.01       | Yes  | 8 | 0    | None    | x^2       | 0.01  | Param.         |
| Arsenic (mg/L) | BY-AP-MW-9  | 0.04644    | 0.0263     | 0.01       | Yes  | 8 | 0    | None    | x^2       | 0.01  | Param.         |
| Cobalt (mg/L)  | BY-AP-MW-15 | 0.03696    | 0.03371    | 0.0157     | Yes  | 8 | 0    | None    | No        | 0.01  | Param.         |

# Confidence Interval Summary Table - All Results

Plant Barry    Client: Southern Company    Data: Barry Ash Pond    Printed 6/22/2023, 11:30 AM

| Constituent                       | Well               | Upper Lim.     | Lower Lim.     | Compliance    | Sig.       | N        | %NDs     | ND Adj.      | Transform  | Alpha        | Method                |
|-----------------------------------|--------------------|----------------|----------------|---------------|------------|----------|----------|--------------|------------|--------------|-----------------------|
| <b>Arsenic (mg/L)</b>             | <b>BY-AP-MW-1</b>  | <b>0.07707</b> | <b>0.06075</b> | <b>0.01</b>   | <b>Yes</b> | <b>8</b> | <b>0</b> | <b>None</b>  | <b>No</b>  | <b>0.01</b>  | <b>Param.</b>         |
| <b>Arsenic (mg/L)</b>             | <b>BY-AP-MW-10</b> | <b>0.07752</b> | <b>0.06536</b> | <b>0.01</b>   | <b>Yes</b> | <b>8</b> | <b>0</b> | <b>None</b>  | <b>x^4</b> | <b>0.01</b>  | <b>Param.</b>         |
| <b>Arsenic (mg/L)</b>             | <b>BY-AP-MW-11</b> | <b>0.01656</b> | <b>0.01376</b> | <b>0.01</b>   | <b>Yes</b> | <b>8</b> | <b>0</b> | <b>None</b>  | <b>No</b>  | <b>0.01</b>  | <b>Param.</b>         |
| <b>Arsenic (mg/L)</b>             | <b>BY-AP-MW-12</b> | <b>0.0246</b>  | <b>0.0218</b>  | <b>0.01</b>   | <b>Yes</b> | <b>8</b> | <b>0</b> | <b>None</b>  | <b>No</b>  | <b>0.004</b> | <b>NP (normality)</b> |
| Arsenic (mg/L)                    | BY-AP-MW-13        | 0.01813        | 0.009785       | 0.01          | No         | 8        | 0        | None         | No         | 0.01         | Param.                |
| <b>Arsenic (mg/L)</b>             | <b>BY-AP-MW-14</b> | <b>0.01806</b> | <b>0.01633</b> | <b>0.01</b>   | <b>Yes</b> | <b>8</b> | <b>0</b> | <b>None</b>  | <b>x^4</b> | <b>0.01</b>  | <b>Param.</b>         |
| <b>Arsenic (mg/L)</b>             | <b>BY-AP-MW-15</b> | <b>0.01982</b> | <b>0.01723</b> | <b>0.01</b>   | <b>Yes</b> | <b>8</b> | <b>0</b> | <b>None</b>  | <b>No</b>  | <b>0.01</b>  | <b>Param.</b>         |
| <b>Arsenic (mg/L)</b>             | <b>BY-AP-MW-16</b> | <b>0.01561</b> | <b>0.01226</b> | <b>0.01</b>   | <b>Yes</b> | <b>8</b> | <b>0</b> | <b>None</b>  | <b>No</b>  | <b>0.01</b>  | <b>Param.</b>         |
| Arsenic (mg/L)                    | BY-AP-MW-2         | 0.001788       | 0.001305       | 0.01          | No         | 8        | 0        | None         | No         | 0.01         | Param.                |
| Arsenic (mg/L)                    | BY-AP-MW-3         | 0.000455       | 0.000102       | 0.01          | No         | 8        | 75       | None         | No         | 0.004        | NP (NDs)              |
| Arsenic (mg/L)                    | BY-AP-MW-4         | 0.000203       | 0.000099       | 0.01          | No         | 8        | 62.5     | None         | No         | 0.004        | NP (NDs)              |
| <b>Arsenic (mg/L)</b>             | <b>BY-AP-MW-5</b>  | <b>0.03662</b> | <b>0.02501</b> | <b>0.01</b>   | <b>Yes</b> | <b>8</b> | <b>0</b> | <b>None</b>  | <b>No</b>  | <b>0.01</b>  | <b>Param.</b>         |
| Arsenic (mg/L)                    | BY-AP-MW-6         | 0.000203       | 0.0001         | 0.01          | No         | 8        | 75       | None         | No         | 0.004        | NP (NDs)              |
| <b>Arsenic (mg/L)</b>             | <b>BY-AP-MW-7</b>  | <b>0.02364</b> | <b>0.01508</b> | <b>0.01</b>   | <b>Yes</b> | <b>8</b> | <b>0</b> | <b>None</b>  | <b>x^3</b> | <b>0.01</b>  | <b>Param.</b>         |
| <b>Arsenic (mg/L)</b>             | <b>BY-AP-MW-8</b>  | <b>0.06782</b> | <b>0.03745</b> | <b>0.01</b>   | <b>Yes</b> | <b>8</b> | <b>0</b> | <b>None</b>  | <b>x^2</b> | <b>0.01</b>  | <b>Param.</b>         |
| <b>Arsenic (mg/L)</b>             | <b>BY-AP-MW-9</b>  | <b>0.04644</b> | <b>0.0263</b>  | <b>0.01</b>   | <b>Yes</b> | <b>8</b> | <b>0</b> | <b>None</b>  | <b>x^2</b> | <b>0.01</b>  | <b>Param.</b>         |
| Barium (mg/L)                     | BY-AP-MW-1         | 0.3437         | 0.2591         | 2             | No         | 8        | 0        | None         | No         | 0.01         | Param.                |
| Barium (mg/L)                     | BY-AP-MW-10        | 0.07493        | 0.06092        | 2             | No         | 8        | 0        | None         | No         | 0.01         | Param.                |
| Barium (mg/L)                     | BY-AP-MW-11        | 0.09886        | 0.06884        | 2             | No         | 8        | 0        | None         | No         | 0.01         | Param.                |
| Barium (mg/L)                     | BY-AP-MW-12        | 0.08667        | 0.07658        | 2             | No         | 8        | 0        | None         | No         | 0.01         | Param.                |
| Barium (mg/L)                     | BY-AP-MW-13        | 0.08002        | 0.06153        | 2             | No         | 8        | 0        | None         | No         | 0.01         | Param.                |
| Barium (mg/L)                     | BY-AP-MW-14        | 0.0714         | 0.06047        | 2             | No         | 8        | 0        | None         | No         | 0.01         | Param.                |
| Barium (mg/L)                     | BY-AP-MW-15        | 0.08227        | 0.06793        | 2             | No         | 8        | 0        | None         | No         | 0.01         | Param.                |
| Barium (mg/L)                     | BY-AP-MW-16        | 0.1004         | 0.08487        | 2             | No         | 8        | 0        | None         | No         | 0.01         | Param.                |
| Barium (mg/L)                     | BY-AP-MW-2         | 0.02738        | 0.02049        | 2             | No         | 8        | 0        | None         | No         | 0.01         | Param.                |
| Barium (mg/L)                     | BY-AP-MW-3         | 0.04437        | 0.02963        | 2             | No         | 8        | 0        | None         | No         | 0.01         | Param.                |
| Barium (mg/L)                     | BY-AP-MW-4         | 0.118          | 0.0131         | 2             | No         | 8        | 0        | None         | No         | 0.004        | NP (normality)        |
| Barium (mg/L)                     | BY-AP-MW-5         | 0.1603         | 0.1132         | 2             | No         | 8        | 0        | None         | x^3        | 0.01         | Param.                |
| Barium (mg/L)                     | BY-AP-MW-6         | 0.02925        | 0.02525        | 2             | No         | 8        | 0        | None         | No         | 0.01         | Param.                |
| Barium (mg/L)                     | BY-AP-MW-7         | 0.07384        | 0.04287        | 2             | No         | 8        | 0        | None         | x^3        | 0.01         | Param.                |
| Barium (mg/L)                     | BY-AP-MW-8         | 0.1506         | 0.1252         | 2             | No         | 8        | 0        | None         | x^6        | 0.01         | Param.                |
| Barium (mg/L)                     | BY-AP-MW-9         | 0.1256         | 0.1139         | 2             | No         | 8        | 0        | None         | No         | 0.01         | Param.                |
| Beryllium (mg/L)                  | BY-AP-MW-4         | 0.00102        | 0.000432       | 0.004         | No         | 8        | 62.5     | None         | No         | 0.004        | NP (NDs)              |
| Cadmium (mg/L)                    | BY-AP-MW-4         | 0.0002         | 0.00009        | 0.005         | No         | 8        | 75       | None         | No         | 0.004        | NP (NDs)              |
| Cadmium (mg/L)                    | BY-AP-MW-6         | 0.00031        | 0.000068       | 0.005         | No         | 8        | 62.5     | None         | No         | 0.004        | NP (NDs)              |
| Chromium (mg/L)                   | BY-AP-MW-1         | 0.00638        | 0.00236        | 0.1           | No         | 8        | 0        | None         | No         | 0.004        | NP (normality)        |
| Chromium (mg/L)                   | BY-AP-MW-10        | 0.01           | 0.00052        | 0.1           | No         | 8        | 37.5     | None         | No         | 0.004        | NP (normality)        |
| Chromium (mg/L)                   | BY-AP-MW-11        | 0.004001       | 0.002344       | 0.1           | No         | 8        | 0        | None         | No         | 0.01         | Param.                |
| Chromium (mg/L)                   | BY-AP-MW-12        | 0.0056         | 0.00325        | 0.1           | No         | 8        | 0        | None         | No         | 0.004        | NP (normality)        |
| Chromium (mg/L)                   | BY-AP-MW-13        | 0.009056       | 0.005476       | 0.1           | No         | 8        | 0        | None         | x^2        | 0.01         | Param.                |
| Chromium (mg/L)                   | BY-AP-MW-14        | 0.004798       | 0.003245       | 0.1           | No         | 8        | 0        | None         | No         | 0.01         | Param.                |
| Chromium (mg/L)                   | BY-AP-MW-15        | 0.01           | 0.000361       | 0.1           | No         | 8        | 37.5     | None         | No         | 0.004        | NP (normality)        |
| Chromium (mg/L)                   | BY-AP-MW-16        | 0.01           | 0.00122        | 0.1           | No         | 8        | 37.5     | None         | No         | 0.004        | NP (normality)        |
| Chromium (mg/L)                   | BY-AP-MW-2         | 0.00102        | 0.000206       | 0.1           | No         | 8        | 50       | None         | No         | 0.004        | NP (normality)        |
| Chromium (mg/L)                   | BY-AP-MW-3         | 0.01           | 0.00053        | 0.1           | No         | 8        | 37.5     | None         | No         | 0.004        | NP (normality)        |
| Chromium (mg/L)                   | BY-AP-MW-4         | 0.01           | 0.00026        | 0.1           | No         | 8        | 37.5     | None         | No         | 0.004        | NP (normality)        |
| Chromium (mg/L)                   | BY-AP-MW-5         | 0.01           | 0.000894       | 0.1           | No         | 8        | 50       | None         | No         | 0.004        | NP (normality)        |
| Chromium (mg/L)                   | BY-AP-MW-6         | 0.01           | 0.00023        | 0.1           | No         | 8        | 37.5     | None         | No         | 0.004        | NP (normality)        |
| Chromium (mg/L)                   | BY-AP-MW-7         | 0.01           | 0.000246       | 0.1           | No         | 8        | 37.5     | None         | No         | 0.004        | NP (normality)        |
| Chromium (mg/L)                   | BY-AP-MW-8         | 0.01           | 0.001          | 0.1           | No         | 8        | 37.5     | None         | No         | 0.004        | NP (normality)        |
| Chromium (mg/L)                   | BY-AP-MW-9         | 0.01           | 0.00062        | 0.1           | No         | 8        | 37.5     | None         | No         | 0.004        | NP (normality)        |
| Cobalt (mg/L)                     | BY-AP-MW-1         | 0.005          | 0.00091        | 0.0157        | No         | 8        | 37.5     | None         | No         | 0.004        | NP (normality)        |
| Cobalt (mg/L)                     | BY-AP-MW-10        | 0.005          | 0.00054        | 0.0157        | No         | 8        | 37.5     | None         | No         | 0.004        | NP (normality)        |
| Cobalt (mg/L)                     | BY-AP-MW-11        | 0.005          | 0.000946       | 0.0157        | No         | 8        | 37.5     | None         | No         | 0.004        | NP (normality)        |
| Cobalt (mg/L)                     | BY-AP-MW-12        | 0.00403        | 0.003035       | 0.0157        | No         | 8        | 0        | None         | No         | 0.01         | Param.                |
| Cobalt (mg/L)                     | BY-AP-MW-13        | 0.002246       | 0.0008853      | 0.0157        | No         | 8        | 37.5     | Kaplan-Meier | x^(1/3)    | 0.01         | Param.                |
| Cobalt (mg/L)                     | BY-AP-MW-14        | 0.005          | 0.00119        | 0.0157        | No         | 8        | 37.5     | None         | No         | 0.004        | NP (normality)        |
| <b>Cobalt (mg/L)</b>              | <b>BY-AP-MW-15</b> | <b>0.03696</b> | <b>0.03371</b> | <b>0.0157</b> | <b>Yes</b> | <b>8</b> | <b>0</b> | <b>None</b>  | <b>No</b>  | <b>0.01</b>  | <b>Param.</b>         |
| Cobalt (mg/L)                     | BY-AP-MW-16        | 0.01936        | 0.008818       | 0.0157        | No         | 8        | 0        | None         | No         | 0.01         | Param.                |
| Cobalt (mg/L)                     | BY-AP-MW-2         | 0.007613       | 0.005148       | 0.0157        | No         | 8        | 0        | None         | x^2        | 0.01         | Param.                |
| Cobalt (mg/L)                     | BY-AP-MW-3         | 0.005          | 0.000108       | 0.0157        | No         | 8        | 37.5     | None         | No         | 0.004        | NP (normality)        |
| Cobalt (mg/L)                     | BY-AP-MW-4         | 0.01353        | 0.002498       | 0.0157        | No         | 8        | 12.5     | None         | ln(x)      | 0.01         | Param.                |
| Cobalt (mg/L)                     | BY-AP-MW-5         | 0.005          | 0.00112        | 0.0157        | No         | 8        | 50       | None         | No         | 0.004        | NP (normality)        |
| Cobalt (mg/L)                     | BY-AP-MW-6         | 0.005          | 0.000584       | 0.0157        | No         | 8        | 37.5     | None         | No         | 0.004        | NP (normality)        |
| Cobalt (mg/L)                     | BY-AP-MW-7         | 0.02223        | 0.009928       | 0.0157        | No         | 8        | 0        | None         | x^2        | 0.01         | Param.                |
| Cobalt (mg/L)                     | BY-AP-MW-8         | 0.0009974      | 0.0002687      | 0.0157        | No         | 8        | 37.5     | Kaplan-Meier | ln(x)      | 0.01         | Param.                |
| Cobalt (mg/L)                     | BY-AP-MW-9         | 0.005          | 0.00069        | 0.0157        | No         | 8        | 37.5     | None         | No         | 0.004        | NP (normality)        |
| Combined Radium 226 + 228 (pCi/L) | BY-AP-MW-1         | 2.743          | 1.89           | 5             | No         | 8        | 0        | None         | No         | 0.01         | Param.                |

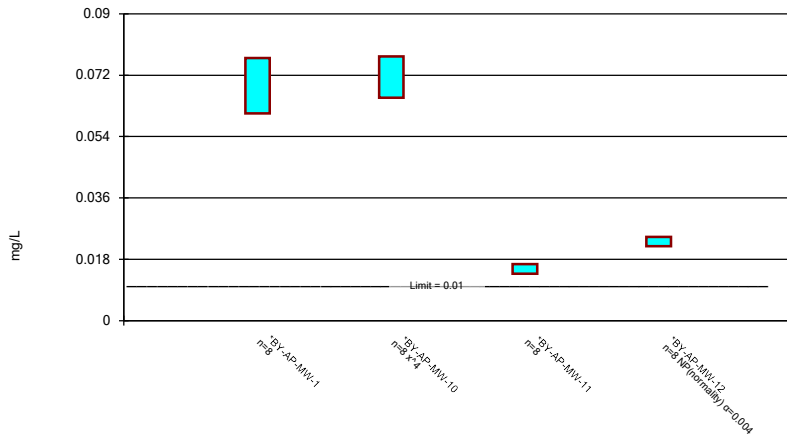
# Confidence Interval Summary Table - All Results

Plant Barry    Client: Southern Company    Data: Barry Ash Pond    Printed 6/22/2023, 11:30 AM

| Constituent                       | Well        | Upper Lim. | Lower Lim. | Compliance | Sig. | N | %NDs | ND Adj.      | Transform | Alpha | Method         |
|-----------------------------------|-------------|------------|------------|------------|------|---|------|--------------|-----------|-------|----------------|
| Combined Radium 226 + 228 (pCi/L) | BY-AP-MW-10 | 1.354      | 0.525      | 5          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Combined Radium 226 + 228 (pCi/L) | BY-AP-MW-11 | 1.15       | 0.452      | 5          | No   | 8 | 0    | None         | No        | 0.004 | NP (normality) |
| Combined Radium 226 + 228 (pCi/L) | BY-AP-MW-12 | 1.805      | 0.8693     | 5          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Combined Radium 226 + 228 (pCi/L) | BY-AP-MW-13 | 1.379      | 0.6373     | 5          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Combined Radium 226 + 228 (pCi/L) | BY-AP-MW-14 | 1.133      | 0.5117     | 5          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Combined Radium 226 + 228 (pCi/L) | BY-AP-MW-15 | 1.65       | 0.5159     | 5          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Combined Radium 226 + 228 (pCi/L) | BY-AP-MW-16 | 1.833      | 0.2699     | 5          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Combined Radium 226 + 228 (pCi/L) | BY-AP-MW-2  | 0.9204     | 0.2656     | 5          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Combined Radium 226 + 228 (pCi/L) | BY-AP-MW-3  | 1.724      | 0.4493     | 5          | No   | 8 | 0    | None         | ln(x)     | 0.01  | Param.         |
| Combined Radium 226 + 228 (pCi/L) | BY-AP-MW-4  | 1.328      | 0.485      | 5          | No   | 8 | 0    | None         | sqrt(x)   | 0.01  | Param.         |
| Combined Radium 226 + 228 (pCi/L) | BY-AP-MW-5  | 2.146      | 0.8926     | 5          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Combined Radium 226 + 228 (pCi/L) | BY-AP-MW-6  | 1.513      | 0.1585     | 5          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Combined Radium 226 + 228 (pCi/L) | BY-AP-MW-7  | 1.159      | 0.3171     | 5          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Combined Radium 226 + 228 (pCi/L) | BY-AP-MW-8  | 1.227      | 0.336      | 5          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Combined Radium 226 + 228 (pCi/L) | BY-AP-MW-9  | 1.68       | 0.6526     | 5          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Fluoride, total (mg/L)            | BY-AP-MW-1  | 0.194      | 0.0665     | 4          | No   | 8 | 0    | None         | No        | 0.004 | NP (normality) |
| Fluoride, total (mg/L)            | BY-AP-MW-10 | 0.125      | 0.0794     | 4          | No   | 8 | 75   | None         | No        | 0.004 | NP (NDs)       |
| Fluoride, total (mg/L)            | BY-AP-MW-11 | 0.1089     | 0.06453    | 4          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Fluoride, total (mg/L)            | BY-AP-MW-12 | 0.08889    | 0.06616    | 4          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Fluoride, total (mg/L)            | BY-AP-MW-13 | 0.187      | 0.0641     | 4          | No   | 8 | 0    | None         | No        | 0.004 | NP (normality) |
| Fluoride, total (mg/L)            | BY-AP-MW-14 | 0.1086     | 0.06651    | 4          | No   | 8 | 0    | None         | No        | 0.01  | Param.         |
| Fluoride, total (mg/L)            | BY-AP-MW-15 | 0.229      | 0.1685     | 4          | No   | 8 | 0    | None         | sqrt(x)   | 0.01  | Param.         |
| Fluoride, total (mg/L)            | BY-AP-MW-16 | 0.1181     | 0.06402    | 4          | No   | 8 | 25   | Kaplan-Meier | No        | 0.01  | Param.         |
| Fluoride, total (mg/L)            | BY-AP-MW-2  | 0.125      | 0.0711     | 4          | No   | 8 | 87.5 | None         | No        | 0.004 | NP (NDs)       |
| Fluoride, total (mg/L)            | BY-AP-MW-5  | 0.1072     | 0.05771    | 4          | No   | 8 | 12.5 | None         | No        | 0.01  | Param.         |
| Fluoride, total (mg/L)            | BY-AP-MW-7  | 0.381      | 0.0724     | 4          | No   | 8 | 0    | None         | No        | 0.004 | NP (normality) |
| Fluoride, total (mg/L)            | BY-AP-MW-8  | 0.125      | 0.0559     | 4          | No   | 8 | 37.5 | None         | No        | 0.004 | NP (normality) |
| Fluoride, total (mg/L)            | BY-AP-MW-9  | 0.0804     | 0.0625     | 4          | No   | 8 | 12.5 | None         | No        | 0.004 | NP (normality) |
| Lead (mg/L)                       | BY-AP-MW-1  | 0.0002     | 0.000092   | 0.015      | No   | 8 | 75   | None         | No        | 0.004 | NP (NDs)       |
| Lead (mg/L)                       | BY-AP-MW-11 | 0.005      | 0.000069   | 0.015      | No   | 8 | 37.5 | None         | No        | 0.004 | NP (normality) |
| Lead (mg/L)                       | BY-AP-MW-12 | 0.000326   | 0.00018    | 0.015      | No   | 8 | 62.5 | None         | No        | 0.004 | NP (NDs)       |
| Lead (mg/L)                       | BY-AP-MW-13 | 0.0002     | 0.000101   | 0.015      | No   | 8 | 62.5 | None         | No        | 0.004 | NP (NDs)       |
| Lead (mg/L)                       | BY-AP-MW-14 | 0.005      | 0.0000764  | 0.015      | No   | 8 | 37.5 | None         | No        | 0.004 | NP (normality) |
| Lead (mg/L)                       | BY-AP-MW-16 | 0.000203   | 0.000191   | 0.015      | No   | 8 | 87.5 | None         | No        | 0.004 | NP (NDs)       |
| Lead (mg/L)                       | BY-AP-MW-4  | 0.005      | 0.00007    | 0.015      | No   | 8 | 37.5 | None         | No        | 0.004 | NP (normality) |
| Lead (mg/L)                       | BY-AP-MW-6  | 0.006029   | 0.001339   | 0.015      | No   | 8 | 0    | None         | ln(x)     | 0.01  | Param.         |
| Lithium (mg/L)                    | BY-AP-MW-11 | 0.02861    | 0.01069    | 0.04       | No   | 8 | 25   | Kaplan-Meier | No        | 0.01  | Param.         |
| Lithium (mg/L)                    | BY-AP-MW-15 | 0.02058    | 0.009311   | 0.04       | No   | 8 | 25   | Kaplan-Meier | No        | 0.01  | Param.         |
| Lithium (mg/L)                    | BY-AP-MW-7  | 0.0882     | 0.0102     | 0.04       | No   | 8 | 75   | Kaplan-Meier | No        | 0.004 | NP (NDs)       |
| Molybdenum (mg/L)                 | BY-AP-MW-1  | 0.01015    | 0.00008    | 0.1        | No   | 8 | 75   | None         | No        | 0.004 | NP (NDs)       |
| Molybdenum (mg/L)                 | BY-AP-MW-11 | 0.01015    | 0.000972   | 0.1        | No   | 8 | 50   | None         | No        | 0.004 | NP (normality) |
| Molybdenum (mg/L)                 | BY-AP-MW-12 | 0.01015    | 0.000942   | 0.1        | No   | 8 | 50   | None         | No        | 0.004 | NP (normality) |
| Molybdenum (mg/L)                 | BY-AP-MW-13 | 0.0108     | 0.00043    | 0.1        | No   | 8 | 37.5 | None         | No        | 0.004 | NP (normality) |
| Molybdenum (mg/L)                 | BY-AP-MW-14 | 0.01015    | 0.00052    | 0.1        | No   | 8 | 50   | None         | No        | 0.004 | NP (normality) |
| Molybdenum (mg/L)                 | BY-AP-MW-15 | 0.01015    | 0.00171    | 0.1        | No   | 8 | 37.5 | None         | No        | 0.004 | NP (normality) |
| Molybdenum (mg/L)                 | BY-AP-MW-16 | 0.01015    | 0.000136   | 0.1        | No   | 8 | 87.5 | None         | No        | 0.004 | NP (NDs)       |
| Molybdenum (mg/L)                 | BY-AP-MW-5  | 0.01015    | 0.00011    | 0.1        | No   | 8 | 62.5 | None         | No        | 0.004 | NP (NDs)       |
| Molybdenum (mg/L)                 | BY-AP-MW-6  | 0.01015    | 0.00011    | 0.1        | No   | 8 | 50   | None         | No        | 0.004 | NP (normality) |
| Molybdenum (mg/L)                 | BY-AP-MW-7  | 0.01015    | 0.00018    | 0.1        | No   | 8 | 50   | None         | No        | 0.004 | NP (normality) |
| Molybdenum (mg/L)                 | BY-AP-MW-8  | 0.01015    | 0.00019    | 0.1        | No   | 8 | 50   | None         | No        | 0.004 | NP (normality) |
| Molybdenum (mg/L)                 | BY-AP-MW-9  | 0.01015    | 0.000157   | 0.1        | No   | 8 | 50   | None         | No        | 0.004 | NP (normality) |
| Selenium (mg/L)                   | BY-AP-MW-13 | 0.00102    | 0.00056    | 0.05       | No   | 8 | 62.5 | None         | No        | 0.004 | NP (NDs)       |

### Parametric and Non-Parametric (NP) Confidence Interval

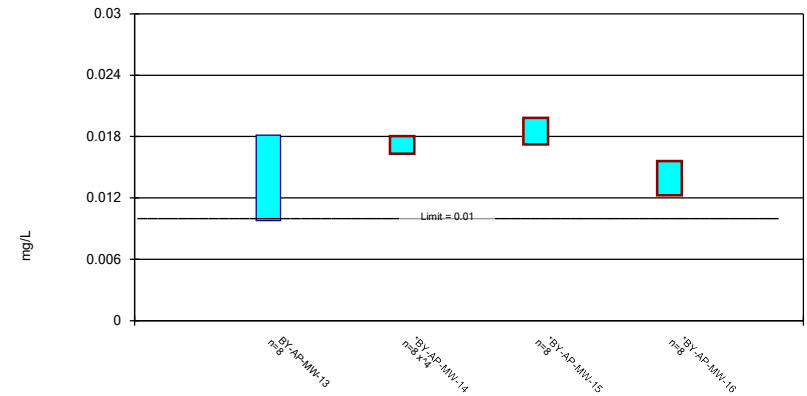
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 6/22/2023 11:28 AM View: AIV  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Parametric Confidence Interval

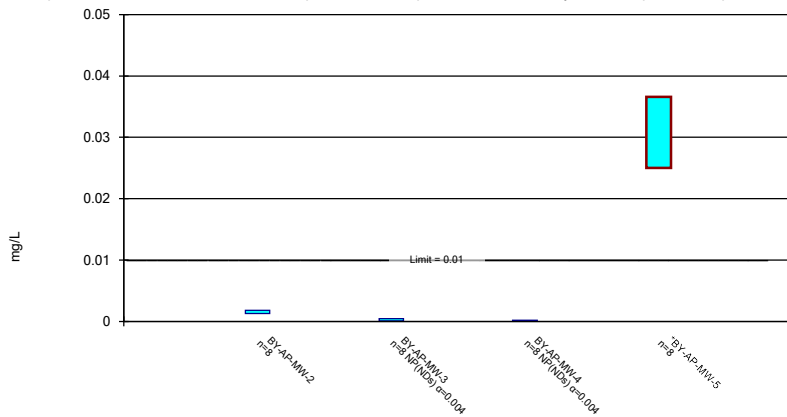
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

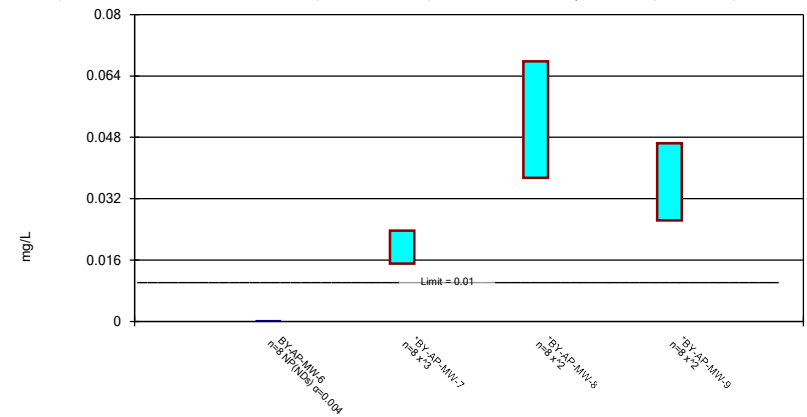
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



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Plant Barry Client: Southern Company Data: Barry Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

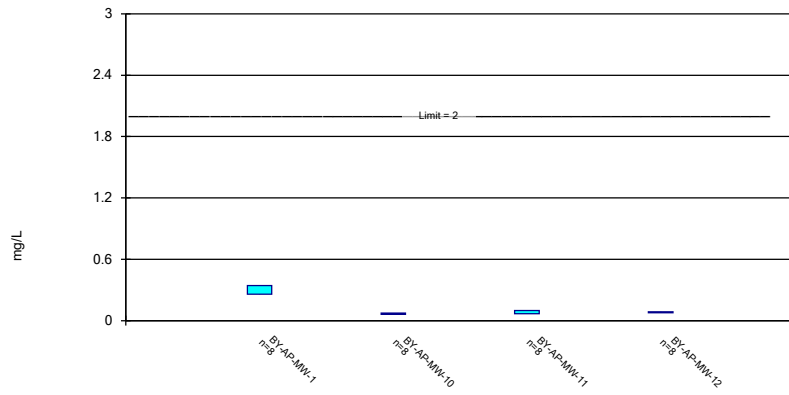
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



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### Parametric Confidence Interval

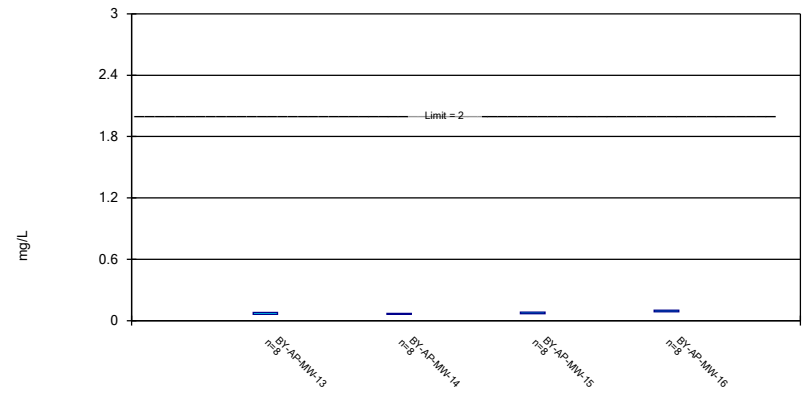
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 6/22/2023 11:28 AM View: AIV  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Parametric Confidence Interval

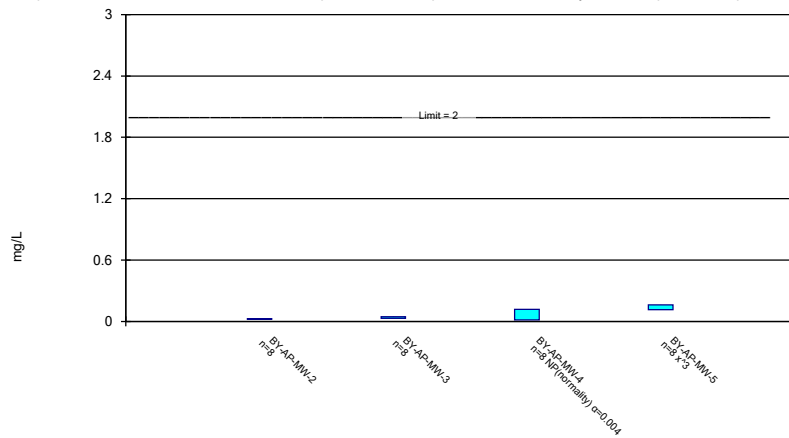
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 6/22/2023 11:28 AM View: AIV  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

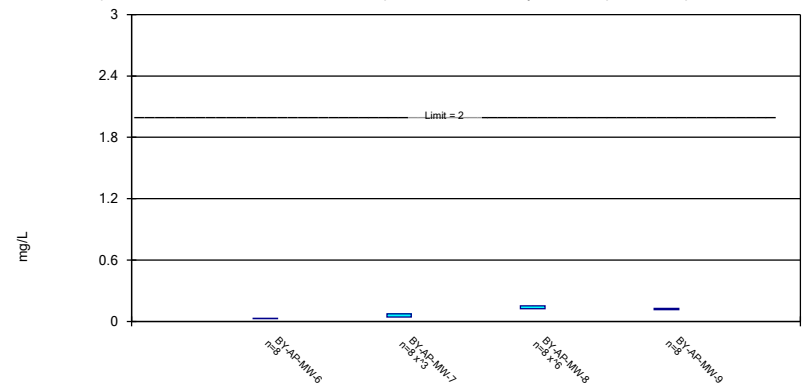
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 6/22/2023 11:28 AM View: AIV  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Parametric Confidence Interval

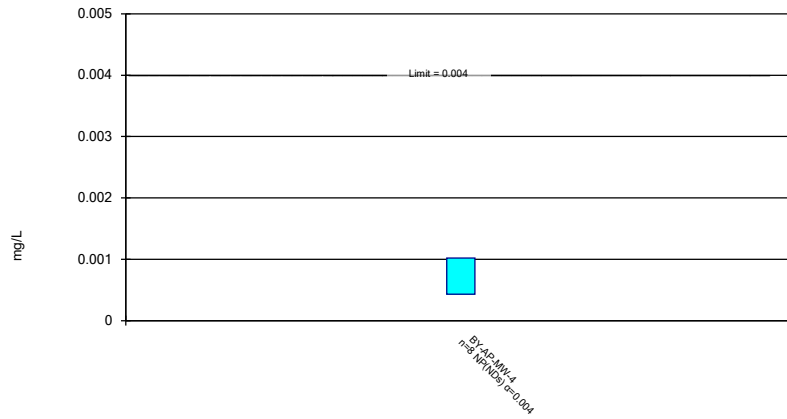
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 6/22/2023 11:28 AM View: AIV  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Non-Parametric Confidence Interval

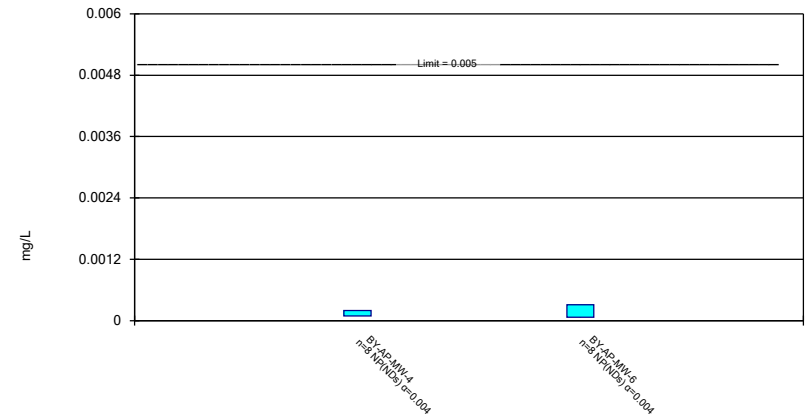
Compliance Limit is not exceeded.



Constituent: Beryllium Analysis Run 6/22/2023 11:28 AM View: AIV  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Non-Parametric Confidence Interval

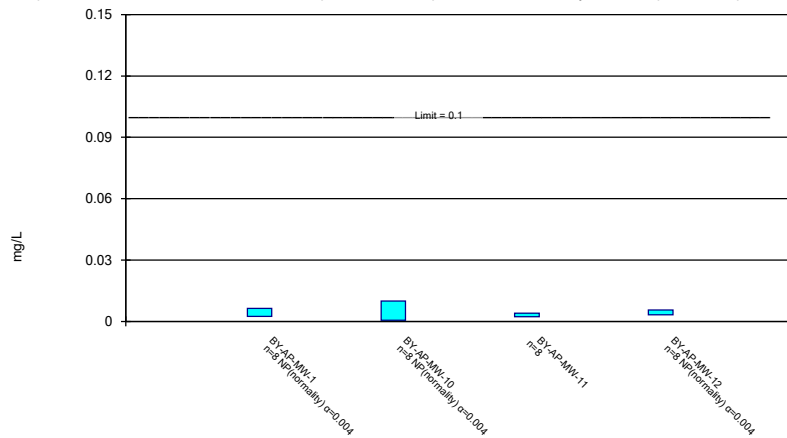
Compliance Limit is not exceeded.



Constituent: Cadmium Analysis Run 6/22/2023 11:28 AM View: AIV  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

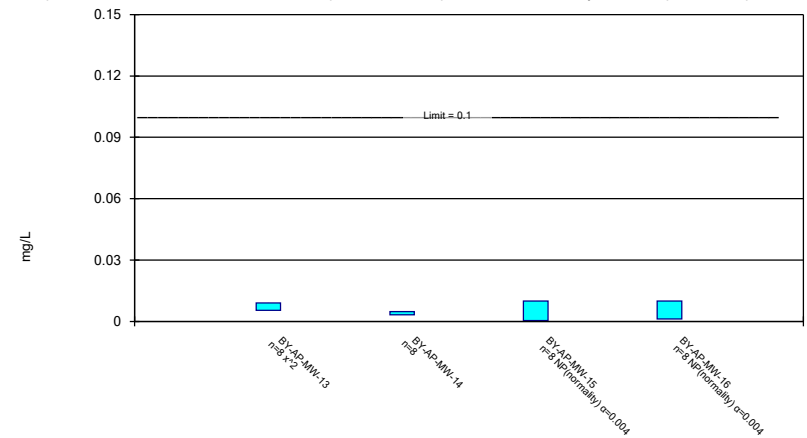
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 6/22/2023 11:28 AM 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.

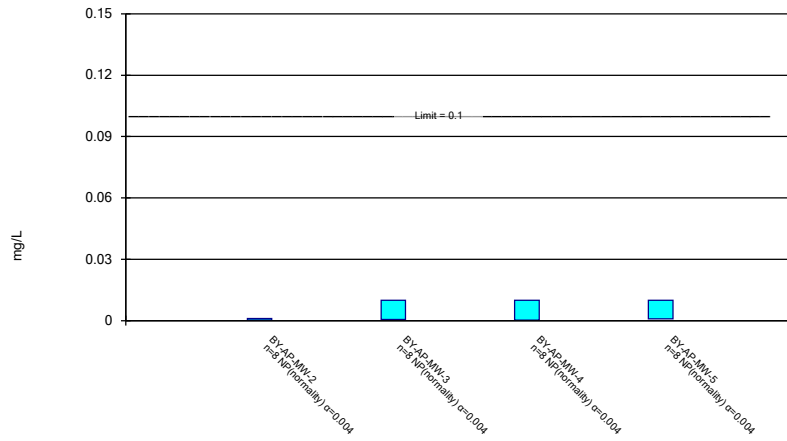


Constituent: Chromium Analysis Run 6/22/2023 11:28 AM View: AIV  
Plant Barry Client: Southern Company Data: Barry Ash Pond



### Non-Parametric Confidence Interval

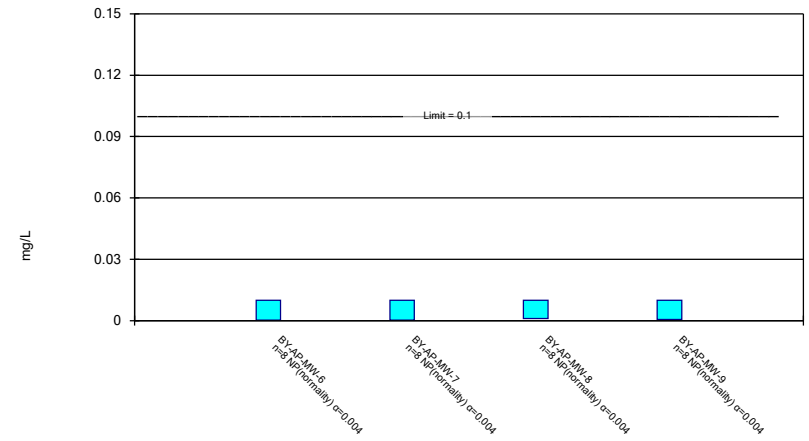
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 6/22/2023 11:28 AM View: AIV  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Non-Parametric Confidence Interval

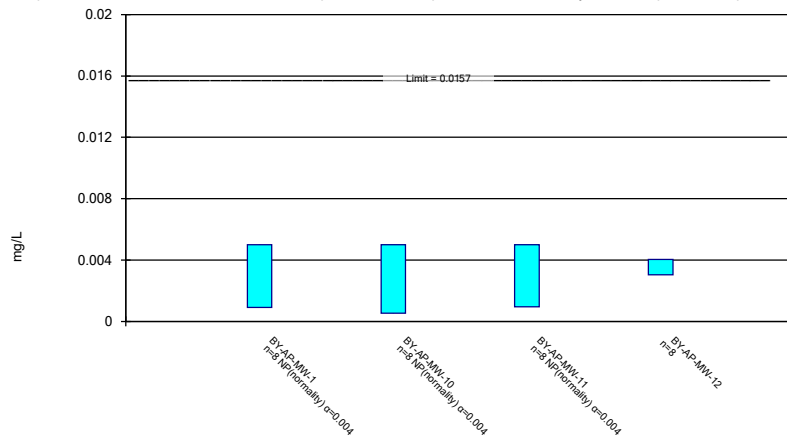
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 6/22/2023 11:28 AM View: AIV  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

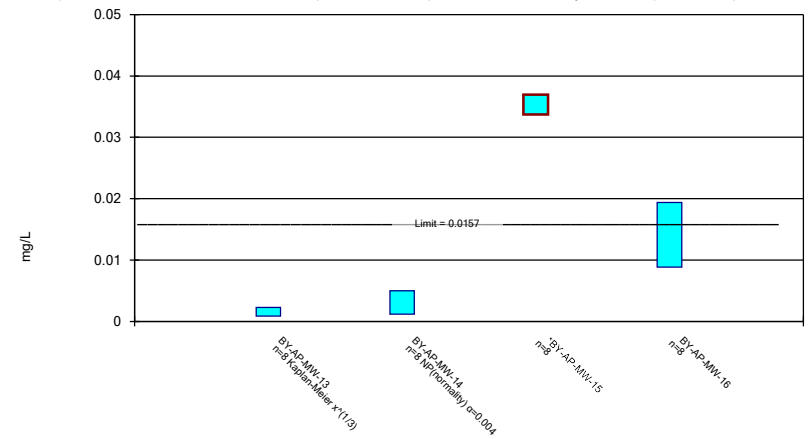
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 6/22/2023 11:28 AM View: AIV  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

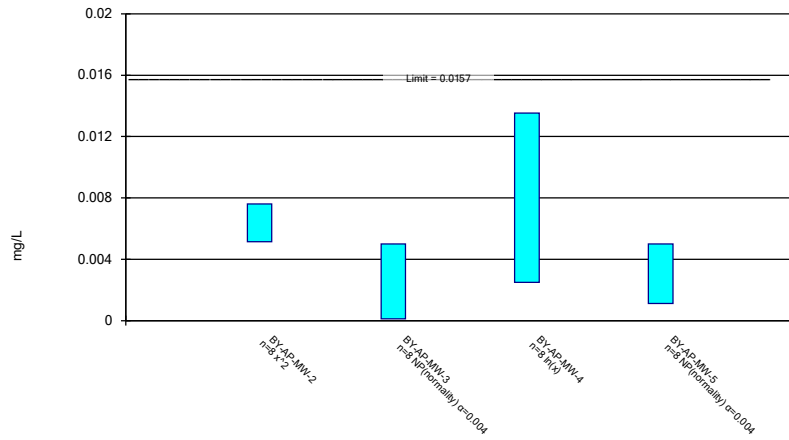
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 6/22/2023 11:28 AM View: AIV  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

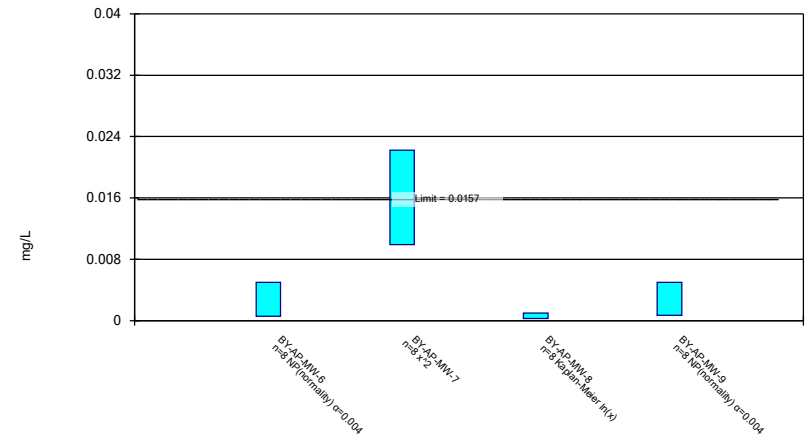
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 6/22/2023 11:28 AM View: AIV  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

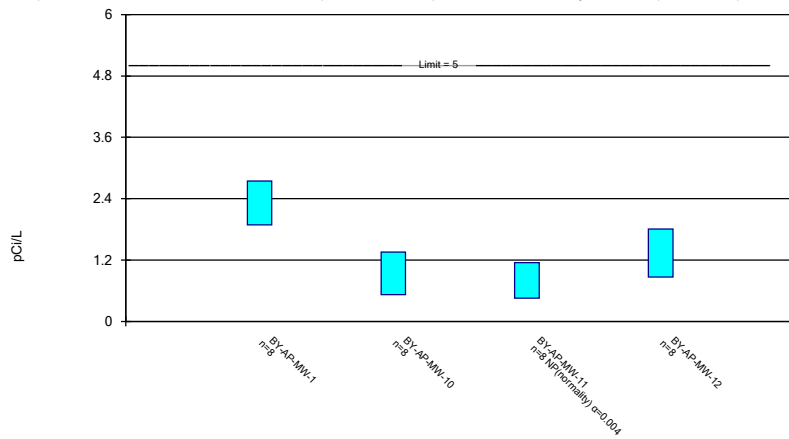
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 6/22/2023 11:28 AM View: AIV  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

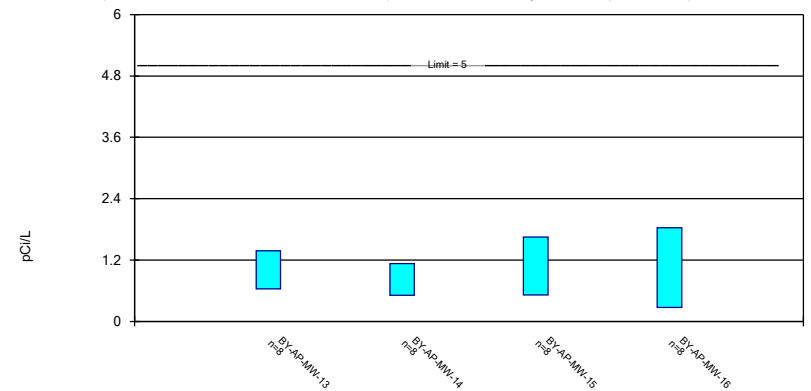
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 6/22/2023 11:28 AM View: AIV  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Parametric Confidence Interval

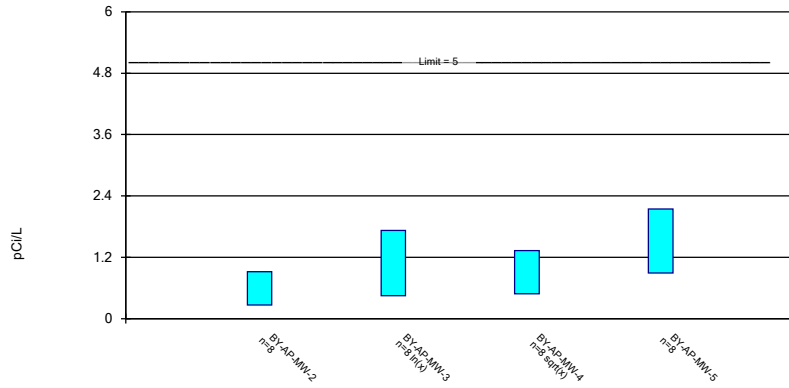
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 6/22/2023 11:28 AM View: AIV  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

### Parametric Confidence Interval

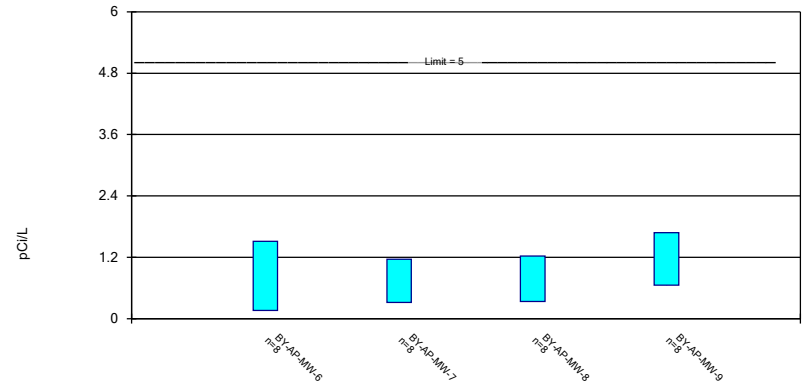
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 6/22/2023 11:28 AM View: AIV  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Parametric Confidence Interval

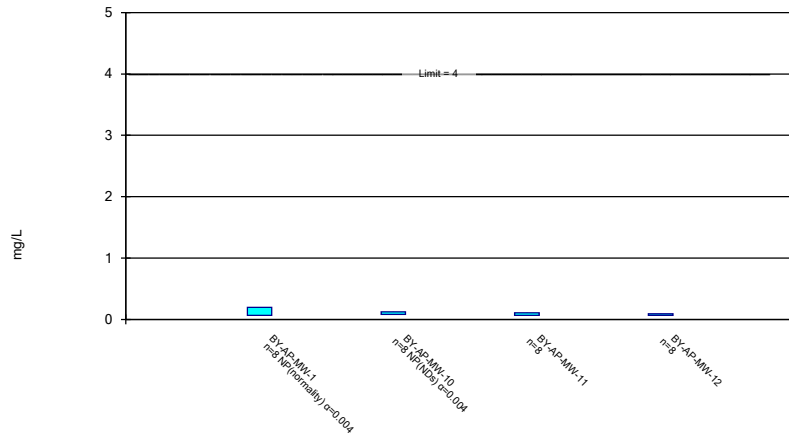
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 6/22/2023 11:28 AM View: AIV  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

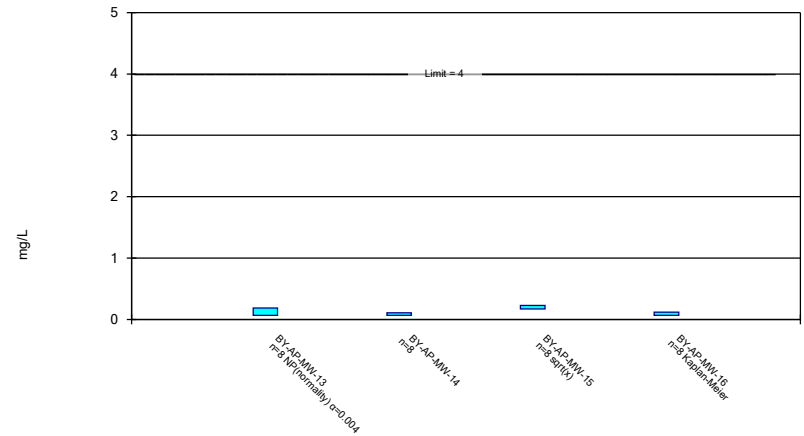
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 6/22/2023 11:28 AM View: AIV  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

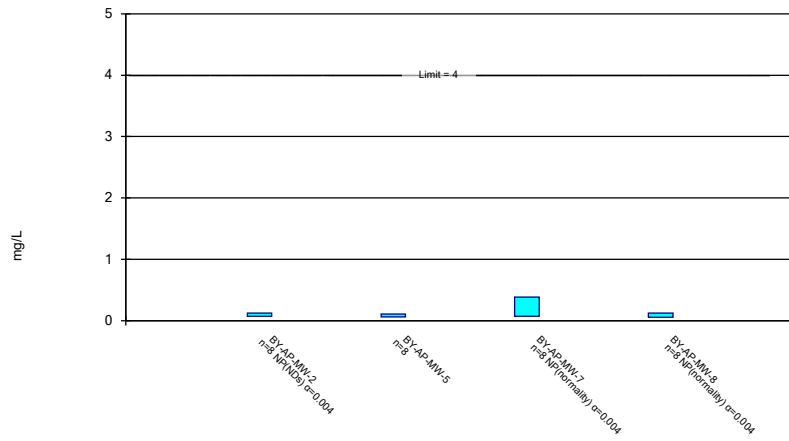
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 6/22/2023 11:28 AM View: AIV  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

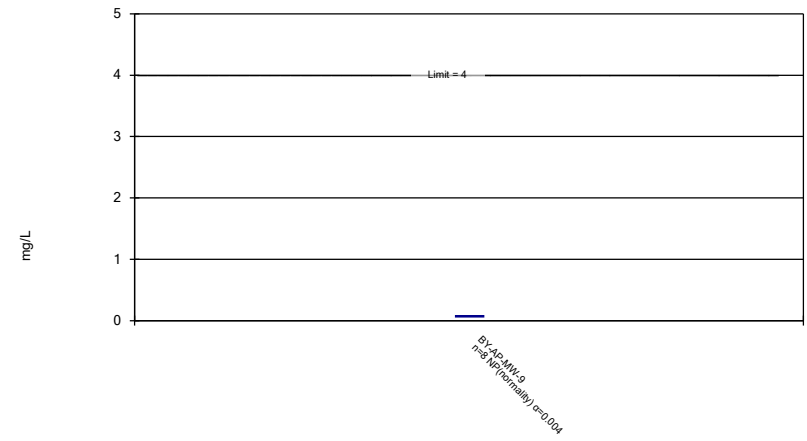
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 6/22/2023 11:28 AM View: AIV  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Non-Parametric Confidence Interval

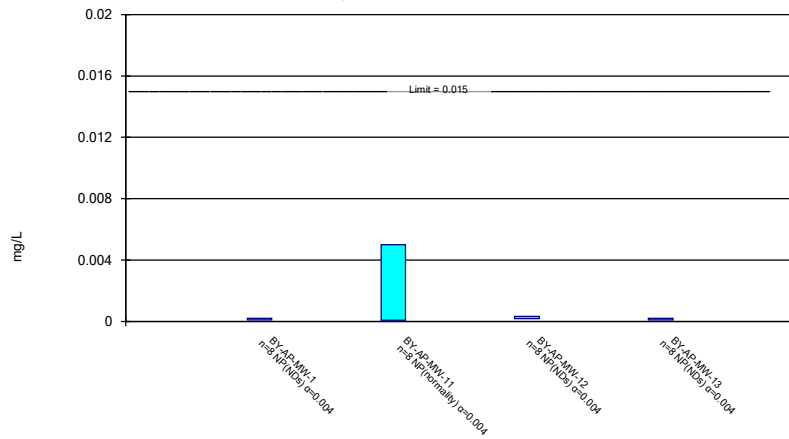
Compliance Limit is not exceeded.



Constituent: Fluoride, total Analysis Run 6/22/2023 11:28 AM View: AIV  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Non-Parametric Confidence Interval

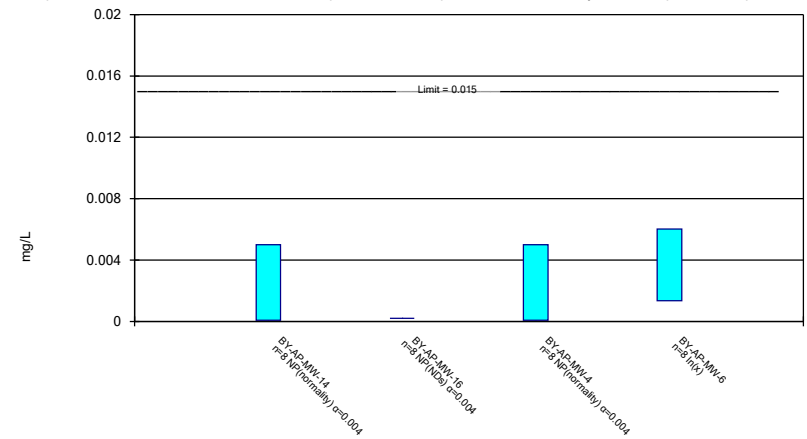
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 6/22/2023 11:28 AM View: AIV  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

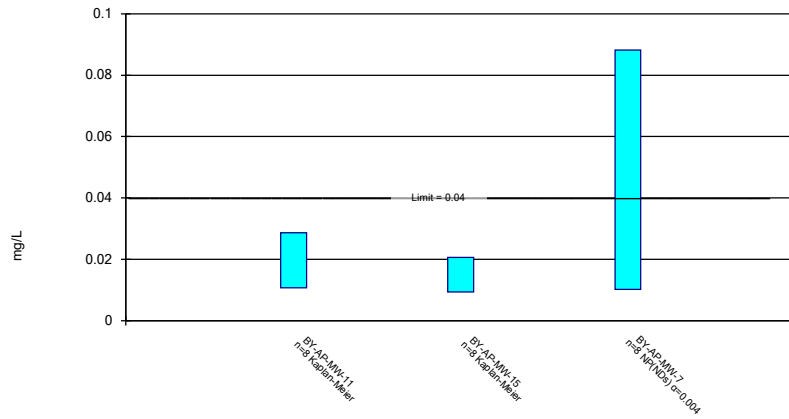
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 6/22/2023 11:28 AM View: AIV  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

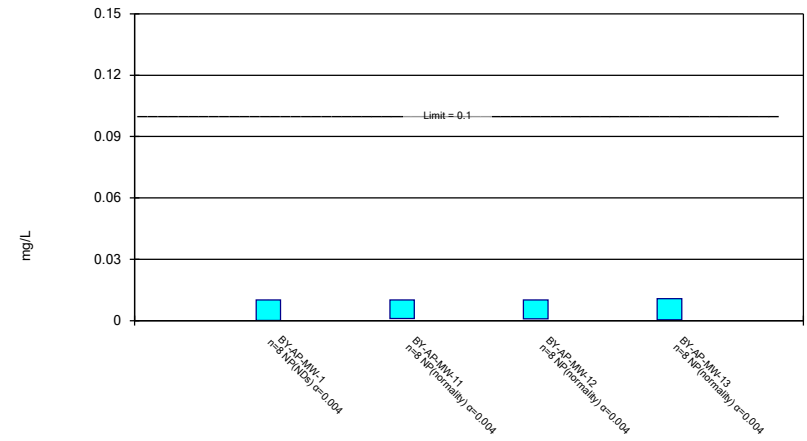
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 6/22/2023 11:28 AM View: AIV  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Non-Parametric Confidence Interval

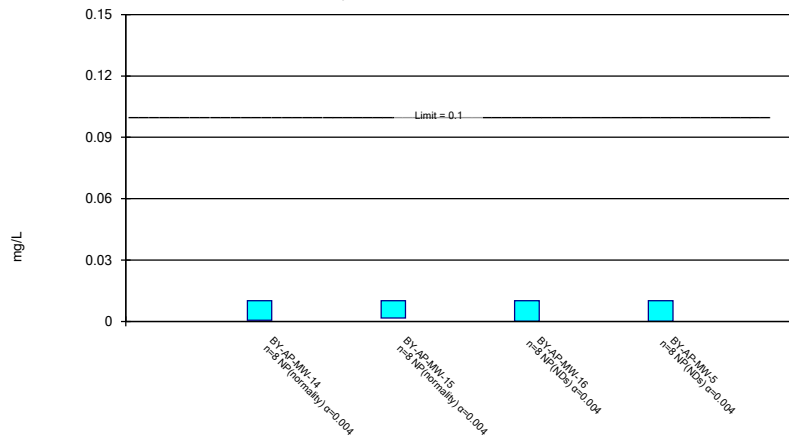
Compliance Limit is not exceeded.



Constituent: Molybdenum Analysis Run 6/22/2023 11:28 AM View: AIV  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Non-Parametric Confidence Interval

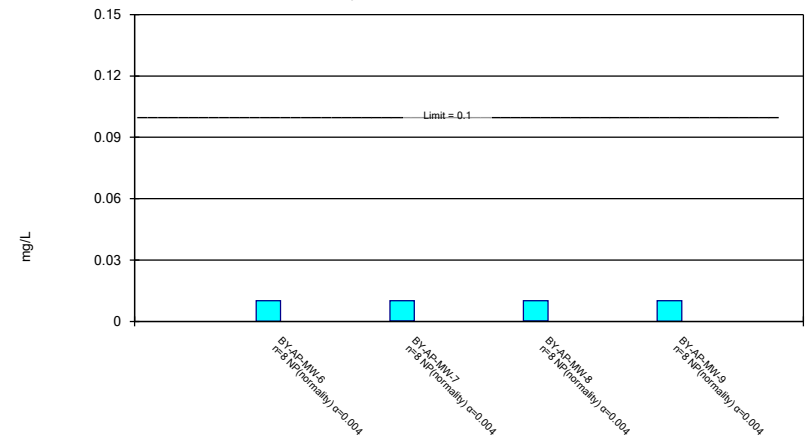
Compliance Limit is not exceeded.



Constituent: Molybdenum Analysis Run 6/22/2023 11:28 AM View: AIV  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Non-Parametric Confidence Interval

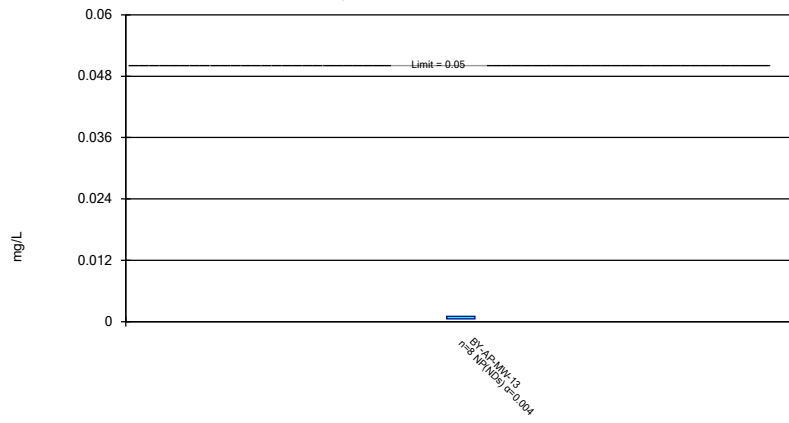
Compliance Limit is not exceeded.



Constituent: Molybdenum Analysis Run 6/22/2023 11:28 AM View: AIV  
Plant Barry Client: Southern Company Data: Barry Ash Pond

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Selenium Analysis Run 6/22/2023 11:28 AM View: AIV  
Plant Barry Client: Southern Company Data: Barry Ash Pond

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 6/22/2023 11:30 AM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | BY-AP-MW-1 | BY-AP-MW-10 | BY-AP-MW-11 | BY-AP-MW-12 |
|------------|------------|-------------|-------------|-------------|
| 9/30/2019  |            | 0.0704      | 0.0145      |             |
| 10/1/2019  | 0.0635     |             |             | 0.0221      |
| 3/30/2020  | 0.0557     |             |             |             |
| 3/31/2020  |            | 0.0702      | 0.0158      | 0.0246      |
| 9/1/2020   | 0.0811     | 0.0763      | 0.0165      | 0.0246      |
| 5/11/2021  |            | 0.0762      |             |             |
| 5/18/2021  | 0.0687     |             |             | 0.0237      |
| 5/19/2021  |            |             | 0.0166      |             |
| 10/27/2021 |            | 0.0705      |             |             |
| 11/1/2021  | 0.0694     |             |             | 0.0245      |
| 11/2/2021  |            |             | 0.0161      |             |
| 5/23/2022  |            |             | 0.0142      | 0.0245      |
| 5/24/2022  | 0.0767     | 0.0775      |             |             |
| 11/1/2022  |            |             | 0.0148      | 0.0226      |
| 11/2/2022  | 0.0682     | 0.0742      |             |             |
| 4/3/2023   | 0.068      | 0.0561      |             |             |
| 4/4/2023   |            |             | 0.0128      | 0.0218      |
| Mean       | 0.06891    | 0.07143     | 0.01516     | 0.02355     |
| Std. Dev.  | 0.007697   | 0.00686     | 0.001321    | 0.001201    |
| Upper Lim. | 0.07707    | 0.07752     | 0.01656     | 0.0246      |
| Lower Lim. | 0.06075    | 0.06536     | 0.01376     | 0.0218      |

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 6/22/2023 11:30 AM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | BY-AP-MW-13 | BY-AP-MW-14 | BY-AP-MW-15 | BY-AP-MW-16 |
|------------|-------------|-------------|-------------|-------------|
| 10/1/2019  | 0.0144      | 0.0152      | 0.017       | 0.0138      |
| 3/31/2020  | 0.0154      | 0.0177      |             | 0.012       |
| 4/1/2020   |             |             | 0.0183      |             |
| 9/1/2020   | 0.0148      |             |             |             |
| 9/2/2020   |             | 0.0174      | 0.0206      | 0.0137      |
| 5/11/2021  |             |             | 0.0184      |             |
| 5/19/2021  | 0.014       |             |             | 0.0118      |
| 5/25/2021  |             | 0.0172      |             |             |
| 10/26/2021 | 0.013       |             | 0.0186      |             |
| 10/27/2021 |             | 0.0174      |             |             |
| 11/1/2021  |             |             |             | 0.0151      |
| 5/24/2022  | 0.0128      |             |             |             |
| 5/25/2022  |             | 0.0183      | 0.0176      | 0.0134      |
| 11/1/2022  | 0.0208      | 0.0174      | 0.0177      | 0.0161      |
| 4/3/2023   |             |             | 0.02        |             |
| 4/4/2023   | 0.00645     |             |             |             |
| 4/5/2023   |             | 0.017       |             | 0.0156      |
| Mean       | 0.01396     | 0.0172      | 0.01853     | 0.01394     |
| Std. Dev.  | 0.003936    | 0.000896    | 0.00122     | 0.00158     |
| Upper Lim. | 0.01813     | 0.01806     | 0.01982     | 0.01561     |
| Lower Lim. | 0.009785    | 0.01633     | 0.01723     | 0.01226     |



# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 6/22/2023 11:30 AM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-2  | BY-AP-MW-3   | BY-AP-MW-4   | BY-AP-MW-5 |
|------------|-------------|--------------|--------------|------------|
| 5/29/2019  |             |              |              | 0.0301     |
| 10/1/2019  | 0.0014 (J)  | <0.0002      | <0.000203    | 0.0307     |
| 3/31/2020  | 0.00149 (J) | <0.0002      | <0.000203    | 0.0329     |
| 8/31/2020  | 0.00176 (J) |              |              |            |
| 9/1/2020   |             | <0.0002      | <0.000203    | 0.0372     |
| 5/18/2021  | 0.00159     | <0.0002      | 0.000125 (J) |            |
| 11/1/2021  | 0.00191     | <0.0002      | 0.0002       |            |
| 11/2/2021  |             |              |              | 0.0357     |
| 5/24/2022  | 0.00115     |              |              |            |
| 5/25/2022  |             | <0.0002      | <0.000203    | 0.0316     |
| 10/31/2022 |             |              | 9.9E-05 (J)  | 0.0292     |
| 11/1/2022  |             | 0.000102 (J) |              |            |
| 11/2/2022  | 0.00151     |              |              |            |
| 4/3/2023   | 0.00156     |              |              |            |
| 4/4/2023   |             | 0.000455     | <0.000203    | 0.0191     |
| Mean       | 0.001546    | 0.0002196    | 0.0001799    | 0.03081    |
| Std. Dev.  | 0.0002277   | 0.0001011    | 4.248E-05    | 0.005477   |
| Upper Lim. | 0.001788    | 0.000455     | 0.000203     | 0.03662    |
| Lower Lim. | 0.001305    | 0.000102     | 9.9E-05      | 0.02501    |

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 6/22/2023 11:30 AM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-6   | BY-AP-MW-7 | BY-AP-MW-8 | BY-AP-MW-9 |
|------------|--------------|------------|------------|------------|
| 9/30/2019  |              | 0.0217     | 0.0514     | 0.0391     |
| 10/1/2019  | <0.000203    |            |            |            |
| 3/30/2020  |              | 0.0215     | 0.0589     |            |
| 3/31/2020  | <0.000203    |            |            | 0.0393     |
| 9/2/2020   | <0.000203    | 0.0234     | 0.0629     | 0.0432     |
| 5/11/2021  |              |            | 0.0659     |            |
| 5/17/2021  | 0.000103 (J) |            |            |            |
| 5/18/2021  |              | 0.0215     |            | 0.0435     |
| 10/26/2021 |              |            | 0.0668     |            |
| 10/27/2021 |              | 0.0236     |            | 0.0468     |
| 11/2/2021  | 0.0001 (J)   |            |            |            |
| 5/24/2022  |              | 0.0197     | 0.0583     | 0.0404     |
| 5/25/2022  | <0.000203    |            |            |            |
| 10/31/2022 | <0.000203    | 0.00873    |            | 0.023      |
| 11/2/2022  |              |            | 0.0415     |            |
| 4/3/2023   |              | 0.013      | 0.00353    |            |
| 4/4/2023   | <0.000203    |            |            | 0.0145     |
| Mean       | 0.0001776    | 0.01914    | 0.05115    | 0.03623    |
| Std. Dev.  | 4.699E-05    | 0.005373   | 0.02095    | 0.01131    |
| Upper Lim. | 0.000203     | 0.02364    | 0.06782    | 0.04644    |
| Lower Lim. | 0.0001       | 0.01508    | 0.03745    | 0.0263     |

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 6/22/2023 11:30 AM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | BY-AP-MW-1 | BY-AP-MW-10 | BY-AP-MW-11 | BY-AP-MW-12 |
|------------|------------|-------------|-------------|-------------|
| 9/30/2019  |            | 0.0669      | 0.0759      |             |
| 10/1/2019  | 0.293      |             |             | 0.0795      |
| 3/30/2020  | 0.279      |             |             |             |
| 3/31/2020  |            | 0.0727      | 0.0842      | 0.0851      |
| 9/1/2020   | 0.33       | 0.078       | 0.0923      | 0.0827      |
| 5/11/2021  |            | 0.0757      |             |             |
| 5/18/2021  | 0.339      |             |             | 0.0902      |
| 5/19/2021  |            |             | 0.112       |             |
| 10/27/2021 |            | 0.0638      |             |             |
| 11/1/2021  | 0.322      |             |             | 0.0823      |
| 11/2/2021  |            |             | 0.0894      |             |
| 5/23/2022  |            |             | 0.0691      | 0.0802      |
| 5/24/2022  | 0.343      | 0.0618      |             |             |
| 11/1/2022  |            |             | 0.078       | 0.079       |
| 11/2/2022  | 0.279      | 0.0617      |             |             |
| 4/3/2023   | 0.226      | 0.0628      |             |             |
| 4/4/2023   |            |             | 0.0699      | 0.074       |
| Mean       | 0.3014     | 0.06793     | 0.08385     | 0.08163     |
| Std. Dev.  | 0.0399     | 0.006605    | 0.01416     | 0.004763    |
| Upper Lim. | 0.3437     | 0.07493     | 0.09886     | 0.08667     |
| Lower Lim. | 0.2591     | 0.06092     | 0.06884     | 0.07658     |

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 6/22/2023 11:30 AM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | BY-AP-MW-13 | BY-AP-MW-14 | BY-AP-MW-15 | BY-AP-MW-16 |
|------------|-------------|-------------|-------------|-------------|
| 10/1/2019  | 0.0696      | 0.0605      | 0.0628      | 0.0803      |
| 3/31/2020  | 0.0728      | 0.0619      |             | 0.091       |
| 4/1/2020   |             |             | 0.0697      |             |
| 9/1/2020   | 0.0722      |             |             |             |
| 9/2/2020   |             | 0.0687      | 0.0736      | 0.0954      |
| 5/11/2021  |             |             | 0.0762      |             |
| 5/19/2021  | 0.0817      |             |             | 0.102       |
| 5/25/2021  |             | 0.0745      |             |             |
| 10/26/2021 | 0.0667      |             | 0.0784      |             |
| 10/27/2021 |             | 0.0651      |             |             |
| 11/1/2021  |             |             |             | 0.0988      |
| 5/24/2022  | 0.0723      |             |             |             |
| 5/25/2022  |             | 0.0693      | 0.0846      | 0.0977      |
| 11/1/2022  | 0.0783      | 0.0681      | 0.0745      | 0.0905      |
| 4/3/2023   |             |             | 0.081       |             |
| 4/4/2023   | 0.0526      |             |             |             |
| 4/5/2023   |             | 0.0594      |             | 0.0852      |
| Mean       | 0.07078     | 0.06594     | 0.0751      | 0.09261     |
| Std. Dev.  | 0.008724    | 0.005158    | 0.006764    | 0.007306    |
| Upper Lim. | 0.08002     | 0.0714      | 0.08227     | 0.1004      |
| Lower Lim. | 0.06153     | 0.06047     | 0.06793     | 0.08487     |

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 6/22/2023 11:30 AM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | BY-AP-MW-2 | BY-AP-MW-3 | BY-AP-MW-4 | BY-AP-MW-5 |
|------------|------------|------------|------------|------------|
| 5/29/2019  |            |            |            | 0.146      |
| 10/1/2019  | 0.0241     | 0.0356     | 0.0207     | 0.138      |
| 3/31/2020  | 0.0264     | 0.0393     | 0.0193     | 0.15       |
| 8/31/2020  | 0.0275     |            |            |            |
| 9/1/2020   |            | 0.038      | 0.0131     | 0.154      |
| 5/18/2021  | 0.0259     | 0.0406     | 0.0225     |            |
| 11/1/2021  | 0.0247     | 0.0371     | 0.0217     |            |
| 11/2/2021  |            |            |            | 0.159      |
| 5/24/2022  | 0.0248     |            |            |            |
| 5/25/2022  |            | 0.0494     | 0.0399     | 0.155      |
| 10/31/2022 |            |            | 0.118      | 0.105      |
| 11/1/2022  |            | 0.0289     |            |            |
| 11/2/2022  | 0.0201     |            |            |            |
| 4/3/2023   | 0.018      |            |            |            |
| 4/4/2023   |            | 0.0271     | 0.118      | 0.0842     |
| Mean       | 0.02394    | 0.037      | 0.04665    | 0.1364     |
| Std. Dev.  | 0.00325    | 0.006955   | 0.04469    | 0.02714    |
| Upper Lim. | 0.02738    | 0.04437    | 0.118      | 0.1603     |
| Lower Lim. | 0.02049    | 0.02963    | 0.0131     | 0.1132     |

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 6/22/2023 11:30 AM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | BY-AP-MW-6 | BY-AP-MW-7 | BY-AP-MW-8 | BY-AP-MW-9 |
|------------|------------|------------|------------|------------|
| 9/30/2019  |            | 0.0648     | 0.138      | 0.117      |
| 10/1/2019  | 0.0257     |            |            |            |
| 3/30/2020  |            | 0.059      | 0.141      |            |
| 3/31/2020  | 0.0244     |            |            | 0.119      |
| 9/2/2020   | 0.0282     | 0.0745     | 0.151      | 0.124      |
| 5/11/2021  |            |            | 0.147      |            |
| 5/17/2021  | 0.0305     |            |            |            |
| 5/18/2021  |            | 0.07       |            | 0.125      |
| 10/26/2021 |            |            | 0.136      |            |
| 10/27/2021 |            | 0.0664     |            | 0.117      |
| 11/2/2021  | 0.0286     |            |            |            |
| 5/24/2022  |            | 0.0717     | 0.142      | 0.117      |
| 5/25/2022  | 0.0268     |            |            |            |
| 10/31/2022 | 0.0263     | 0.0188     |            | 0.111      |
| 11/2/2022  |            |            | 0.149      |            |
| 4/3/2023   |            | 0.0288     | 0.0223     |            |
| 4/4/2023   | 0.0275     |            |            | 0.128      |
| Mean       | 0.02725    | 0.05675    | 0.1283     | 0.1198     |
| Std. Dev.  | 0.001889   | 0.02104    | 0.04315    | 0.005523   |
| Upper Lim. | 0.02925    | 0.07384    | 0.1506     | 0.1256     |
| Lower Lim. | 0.02525    | 0.04287    | 0.1252     | 0.1139     |

# Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 6/22/2023 11:30 AM View: AIV  
Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | BY-AP-MW-4   |
|------------|--------------|
| 10/1/2019  | <0.00102     |
| 3/31/2020  | <0.00102     |
| 9/1/2020   | <0.00102     |
| 5/18/2021  | <0.00102     |
| 11/1/2021  | <0.00102     |
| 5/25/2022  | 0.00065 (J)  |
| 10/31/2022 | 0.000451 (J) |
| 4/4/2023   | 0.000432 (J) |
| Mean       | 0.0008291    |
| Std. Dev.  | 0.0002712    |
| Upper Lim. | 0.00102      |
| Lower Lim. | 0.000432     |

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 6/22/2023 11:30 AM View: AIV  
Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | BY-AP-MW-4   | BY-AP-MW-6  |
|------------|--------------|-------------|
| 10/1/2019  | <0.0002      | <0.000203   |
| 3/31/2020  | <0.0002      | <0.000203   |
| 9/1/2020   | <0.0002      |             |
| 9/2/2020   |              | <0.000203   |
| 5/17/2021  |              | <0.000203   |
| 5/18/2021  | <0.0002      |             |
| 11/1/2021  | <0.0002      |             |
| 11/2/2021  |              | 7E-05 (J)   |
| 5/25/2022  | <0.0002      | 0.00031     |
| 10/31/2022 | 0.000102 (J) | 6.8E-05 (J) |
| 4/4/2023   | 9E-05 (J)    | <0.000203   |
| Mean       | 0.000174     | 0.0001829   |
| Std. Dev.  | 4.825E-05    | 7.939E-05   |
| Upper Lim. | 0.0002       | 0.00031     |
| Lower Lim. | 9E-05        | 6.8E-05     |



# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 6/22/2023 11:30 AM 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 |
|------------|-------------|--------------|-------------|-------------|
| 9/30/2019  |             | <0.01        | 0.00228 (J) |             |
| 10/1/2019  | 0.00236 (J) |              |             | 0.00325 (J) |
| 3/30/2020  | 0.00415 (J) |              |             |             |
| 3/31/2020  |             | <0.01        | 0.00358 (J) | 0.0056 (J)  |
| 9/1/2020   | 0.00242 (J) | <0.01        | 0.00259 (J) | 0.00332 (J) |
| 5/11/2021  |             | 0.000685 (J) |             |             |
| 5/18/2021  | 0.00294     |              |             | 0.00377     |
| 5/19/2021  |             |              | 0.00301     |             |
| 10/27/2021 |             | 0.00072 (J)  |             |             |
| 11/1/2021  | 0.00244     |              |             | 0.00423     |
| 11/2/2021  |             |              | 0.00348     |             |
| 5/23/2022  |             |              | 0.00474     | 0.00374     |
| 5/24/2022  | 0.00238     | 0.00052 (J)  |             |             |
| 11/1/2022  |             |              | 0.00316     | 0.00338     |
| 11/2/2022  | 0.00371     | 0.000642 (J) |             |             |
| 4/3/2023   | 0.00638     | 0.00066 (J)  |             |             |
| 4/4/2023   |             |              | 0.00254     | 0.00351     |
| Mean       | 0.003348    | 0.004153     | 0.003173    | 0.00385     |
| Std. Dev.  | 0.001401    | 0.004842     | 0.000782    | 0.0007749   |
| Upper Lim. | 0.00638     | 0.01         | 0.004001    | 0.0056      |
| Lower Lim. | 0.00236     | 0.00052      | 0.002344    | 0.00325     |

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 6/22/2023 11:30 AM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-13 | BY-AP-MW-14 | BY-AP-MW-15  | BY-AP-MW-16 |
|------------|-------------|-------------|--------------|-------------|
| 10/1/2019  | 0.00764 (J) | 0.00508 (J) | <0.01        | <0.01       |
| 3/31/2020  | 0.00955 (J) | 0.00463 (J) |              | <0.01       |
| 4/1/2020   |             |             | <0.01        |             |
| 9/1/2020   | 0.00888 (J) |             |              |             |
| 9/2/2020   |             | 0.00482 (J) | <0.01        | <0.01       |
| 5/11/2021  |             |             | 0.000581 (J) |             |
| 5/19/2021  | 0.00692     |             |              | 0.00162     |
| 5/25/2021  |             | 0.00365     |              |             |
| 10/26/2021 | 0.00755     |             | 0.00052 (J)  |             |
| 10/27/2021 |             | 0.00401     |              |             |
| 11/1/2021  |             |             |              | 0.0018      |
| 5/24/2022  | 0.00685     |             |              |             |
| 5/25/2022  |             | 0.00345     | 0.00049 (J)  | 0.00135     |
| 11/1/2022  | 0.00772     | 0.00317     | 0.000361 (J) | 0.00122     |
| 4/3/2023   |             |             | 0.000638 (J) |             |
| 4/4/2023   | 0.00286     |             |              |             |
| 4/5/2023   |             | 0.00336     |              | 0.00125     |
| Mean       | 0.007246    | 0.004021    | 0.004074     | 0.004655    |
| Std. Dev.  | 0.001998    | 0.0007325   | 0.004908     | 0.00443     |
| Upper Lim. | 0.009056    | 0.004798    | 0.01         | 0.01        |
| Lower Lim. | 0.005476    | 0.003245    | 0.000361     | 0.00122     |

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 6/22/2023 11:30 AM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-2   | BY-AP-MW-3   | BY-AP-MW-4   | BY-AP-MW-5   |
|------------|--------------|--------------|--------------|--------------|
| 5/29/2019  |              |              |              | <0.01        |
| 10/1/2019  | <0.00102     | <0.01        | <0.01        | <0.01        |
| 3/31/2020  | <0.00102     | <0.01        | <0.01        | <0.01        |
| 8/31/2020  | <0.00102     |              |              |              |
| 9/1/2020   |              | <0.01        | <0.01        | <0.01        |
| 5/18/2021  | 0.000394 (J) | 0.000919 (J) | 0.000544 (J) |              |
| 11/1/2021  | 0.00029 (J)  | 0.00093 (J)  | 0.00067 (J)  |              |
| 11/2/2021  |              |              |              | 0.00101 (J)  |
| 5/24/2022  | <0.00102     |              |              |              |
| 5/25/2022  |              | 0.00104      | 0.00026 (J)  | 0.00103      |
| 10/31/2022 |              |              | 0.00057 (J)  | 0.00096 (J)  |
| 11/1/2022  |              | 0.00107      |              |              |
| 11/2/2022  | 0.000206 (J) |              |              |              |
| 4/3/2023   | 0.000877 (J) |              |              |              |
| 4/4/2023   |              | 0.00053 (J)  | 0.000444 (J) | 0.000894 (J) |
| Mean       | 0.0007309    | 0.004311     | 0.004061     | 0.005487     |
| Std. Dev.  | 0.0003663    | 0.004714     | 0.004919     | 0.004825     |
| Upper Lim. | 0.00102      | 0.01         | 0.01         | 0.01         |
| Lower Lim. | 0.000206     | 0.00053      | 0.00026      | 0.000894     |

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 6/22/2023 11:30 AM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-6   | BY-AP-MW-7   | BY-AP-MW-8 | BY-AP-MW-9   |
|------------|--------------|--------------|------------|--------------|
| 9/30/2019  |              | <0.01        | <0.01      | <0.01        |
| 10/1/2019  | <0.01        |              |            |              |
| 3/30/2020  |              | <0.01        | <0.01      |              |
| 3/31/2020  | <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      |            | 0.00078 (J)  |
| 10/26/2021 |              |              | 0.00165    |              |
| 10/27/2021 |              | 0.00309      |            | 0.00087 (J)  |
| 11/2/2021  | 0.00023 (J)  |              |            |              |
| 5/24/2022  |              | 0.00058 (J)  | 0.00128    | 0.0007 (J)   |
| 5/25/2022  | 0.00029 (J)  |              |            |              |
| 10/31/2022 | 0.000281 (J) | 0.000263 (J) |            | 0.000692 (J) |
| 11/2/2022  |              |              | 0.001 (J)  |              |
| 4/3/2023   |              | 0.000246 (J) | 0.00115    |              |
| 4/4/2023   | 0.000267 (J) |              |            | 0.00062 (J)  |
| Mean       | 0.003923     | 0.005159     | 0.00458    | 0.004208     |
| Std. Dev.  | 0.005033     | 0.004589     | 0.004493   | 0.004797     |
| Upper Lim. | 0.01         | 0.01         | 0.01       | 0.01         |
| Lower Lim. | 0.00023      | 0.000246     | 0.001      | 0.00062      |

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 6/22/2023 11:30 AM 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 |
|------------|------------|-------------|-------------|-------------|
| 9/30/2019  |            | <0.005      | <0.005      |             |
| 10/1/2019  | <0.005     |             |             | 0.00303 (J) |
| 3/30/2020  | <0.005     |             |             |             |
| 3/31/2020  |            | <0.005      | <0.005      | 0.00364 (J) |
| 9/1/2020   | <0.005     | <0.005      | <0.005      | 0.0031 (J)  |
| 5/11/2021  |            | 0.000636    |             |             |
| 5/18/2021  | 0.000996   |             |             | 0.00336     |
| 5/19/2021  |            |             | 0.00257     |             |
| 10/27/2021 |            | 0.00065     |             |             |
| 11/1/2021  | 0.00091    |             |             | 0.0037      |
| 11/2/2021  |            |             | 0.00118     |             |
| 5/23/2022  |            |             | 0.00118     | 0.00428     |
| 5/24/2022  | 0.00091    | 0.00054     |             |             |
| 11/1/2022  |            |             | 0.00105     | 0.00406     |
| 11/2/2022  | 0.00102    | 0.000605    |             |             |
| 4/3/2023   | 0.00133    | 0.000622    |             |             |
| 4/4/2023   |            |             | 0.000946    | 0.00309     |
| Mean       | 0.002521   | 0.002257    | 0.002741    | 0.003533    |
| Std. Dev.  | 0.002057   | 0.002272    | 0.001938    | 0.0004693   |
| Upper Lim. | 0.005      | 0.005       | 0.005       | 0.00403     |
| Lower Lim. | 0.00091    | 0.00054     | 0.000946    | 0.003035    |

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 6/22/2023 11:30 AM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-13 | BY-AP-MW-14 | BY-AP-MW-15 | BY-AP-MW-16 |
|------------|-------------|-------------|-------------|-------------|
| 10/1/2019  | <0.005      | <0.005      | 0.0336      | 0.0107      |
| 3/31/2020  | <0.005      | <0.005      |             | 0.0199      |
| 4/1/2020   |             |             | 0.0344      |             |
| 9/1/2020   | <0.005      |             |             |             |
| 9/2/2020   |             | <0.005      | 0.0385      | 0.0192      |
| 5/11/2021  |             |             | 0.0349      |             |
| 5/19/2021  | 0.00113     |             |             | 0.0182      |
| 5/25/2021  |             | 0.00124     |             |             |
| 10/26/2021 | 0.00122     |             | 0.0347      |             |
| 10/27/2021 |             | 0.00125     |             |             |
| 11/1/2021  |             |             |             | 0.0139      |
| 5/24/2022  | 0.00189     |             |             |             |
| 5/25/2022  |             | 0.00125     | 0.0364      | 0.0155      |
| 11/1/2022  | 0.00274     | 0.0012      | 0.0357      | 0.00812     |
| 4/3/2023   |             |             | 0.0345      |             |
| 4/4/2023   | 0.000801    |             |             |             |
| 4/5/2023   |             | 0.00119     |             | 0.00721     |
| Mean       | 0.002848    | 0.002641    | 0.03534     | 0.01409     |
| Std. Dev.  | 0.001875    | 0.001953    | 0.001533    | 0.004975    |
| Upper Lim. | 0.002246    | 0.005       | 0.03696     | 0.01936     |
| Lower Lim. | 0.0008853   | 0.00119     | 0.03371     | 0.008818    |

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 6/22/2023 11:30 AM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-2 | BY-AP-MW-3   | BY-AP-MW-4 | BY-AP-MW-5 |
|------------|------------|--------------|------------|------------|
| 5/29/2019  |            |              |            | <0.005     |
| 10/1/2019  | 0.00696    | <0.005       | <0.005     | <0.005     |
| 3/31/2020  | 0.00716    | <0.005       | 0.0205     | <0.005     |
| 8/31/2020  | 0.00751    |              |            |            |
| 9/1/2020   |            | <0.005       | 0.00657    | <0.005     |
| 5/18/2021  | 0.00746    | 0.000196 (J) | 0.018      |            |
| 11/1/2021  | 0.00706    | 0.00016 (J)  | 0.00478    |            |
| 11/2/2021  |            |              |            | 0.00197    |
| 5/24/2022  | 0.00582    |              |            |            |
| 5/25/2022  |            | 0.00028      | 0.00455    | 0.00184    |
| 10/31/2022 |            |              | 0.00319    | 0.0015     |
| 11/1/2022  |            | 0.000152 (J) |            |            |
| 11/2/2022  | 0.00497    |              |            |            |
| 4/3/2023   | 0.0042     |              |            |            |
| 4/4/2023   |            | 0.000108 (J) | 0.0031     | 0.00112    |
| Mean       | 0.006393   | 0.001987     | 0.007899   | 0.003304   |
| Std. Dev.  | 0.001248   | 0.002495     | 0.00715    | 0.00183    |
| Upper Lim. | 0.007613   | 0.005        | 0.01353    | 0.005      |
| Lower Lim. | 0.005148   | 0.000108     | 0.002498   | 0.00112    |

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 6/22/2023 11:30 AM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-6 | BY-AP-MW-7 | BY-AP-MW-8   | BY-AP-MW-9 |
|------------|------------|------------|--------------|------------|
| 9/30/2019  |            | 0.0186     | <0.005       | <0.005     |
| 10/1/2019  | <0.005     |            |              |            |
| 3/30/2020  |            | 0.0172     | <0.005       |            |
| 3/31/2020  | <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     |              | 0.000725   |
| 10/26/2021 |            |            | 0.00079      |            |
| 10/27/2021 |            | 0.0206     |              | 0.0007     |
| 11/2/2021  | 0.0006     |            |              |            |
| 5/24/2022  |            | 0.023      | 0.00067      | 0.00069    |
| 5/25/2022  | 0.00098    |            |              |            |
| 10/31/2022 | 0.000588   | 0.00239    |              | 0.000698   |
| 11/2/2022  |            |            | 0.00059      |            |
| 4/3/2023   |            | 0.00492    | 0.000153 (J) |            |
| 4/4/2023   | 0.000584   |            |              | 0.000737   |
| Mean       | 0.002304   | 0.01566    | 0.002248     | 0.002319   |
| Std. Dev.  | 0.002236   | 0.00763    | 0.002288     | 0.00222    |
| Upper Lim. | 0.005      | 0.02223    | 0.0009974    | 0.005      |
| Lower Lim. | 0.000584   | 0.009928   | 0.0002687    | 0.00069    |



# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/22/2023 11:30 AM 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 |
|------------|------------|-------------|-------------|-------------|
| 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       |             |             | 0.984       |
| 3/30/2020  | 2.31       |             |             |             |
| 3/31/2020  |            | 1.14        | 0.462 (U)   | 1.26        |
| 5/11/2021  |            | 1.12 (U)    |             |             |
| 5/18/2021  | 2.99       |             |             | 1.11        |
| 5/19/2021  |            |             | 1.15        |             |
| 10/27/2021 |            | 1.2 (U)     |             |             |
| 11/1/2021  | 2.22       |             |             | 1.79        |
| 11/2/2021  |            |             | 0.504 (U)   |             |
| 5/23/2022  |            |             | 0.452 (U)   | 1.4         |
| 5/24/2022  | 2.12       | 1.36 (U)    |             |             |
| 11/1/2022  |            |             | 1.03        | 0.672 (U)   |
| 11/2/2022  | 1.96       | 0.886 (U)   |             |             |
| 4/3/2023   | 1.84       | 0.75 (U)    |             |             |
| 4/4/2023   |            |             | 0.562 (U)   | 1.42        |
| Mean       | 2.316      | 0.9395      | 0.6719      | 1.337       |
| Std. Dev.  | 0.4025     | 0.391       | 0.2741      | 0.4413      |
| Upper Lim. | 2.743      | 1.354       | 1.15        | 1.805       |
| Lower Lim. | 1.89       | 0.525       | 0.452       | 0.8693      |

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/22/2023 11:30 AM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | BY-AP-MW-13 | BY-AP-MW-14 | BY-AP-MW-15 | BY-AP-MW-16 |
|------------|-------------|-------------|-------------|-------------|
| 5/29/2019  | 1.01        | 0.437 (U)   | 0.433       | 2.51        |
| 10/1/2019  | 1.07        | 1.11        | 0.988       | 0.443 (U)   |
| 3/31/2020  | 0.725       | 0.941       |             | 0.341 (U)   |
| 4/1/2020   |             |             | 0.527       |             |
| 5/11/2021  |             |             | 0.684 (U)   |             |
| 5/19/2021  | 1.15        |             |             | 0.321 (U)   |
| 5/25/2021  |             | 0.978 (U)   |             |             |
| 10/26/2021 | 1.74        |             | 1.95        |             |
| 10/27/2021 |             | 0.587 (U)   |             |             |
| 11/1/2021  |             |             |             | 1.28        |
| 5/24/2022  | 0.915 (U)   |             |             |             |
| 5/25/2022  |             | 1.25        | 1.3         | 0.927 (U)   |
| 11/1/2022  | 0.569 (U)   | 0.528 (U)   | 1.15        | 1.09        |
| 4/3/2023   |             |             | 1.63        |             |
| 4/4/2023   | 0.885 (U)   |             |             |             |
| 4/5/2023   |             | 0.746 (U)   |             | 1.5         |
| Mean       | 1.008       | 0.8221      | 1.083       | 1.052       |
| Std. Dev.  | 0.3498      | 0.2928      | 0.5348      | 0.7374      |
| Upper Lim. | 1.379       | 1.133       | 1.65        | 1.833       |
| Lower Lim. | 0.6373      | 0.5117      | 0.5159      | 0.2699      |

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/22/2023 11:30 AM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | BY-AP-MW-2 | BY-AP-MW-3 | BY-AP-MW-4 | BY-AP-MW-5 |
|------------|------------|------------|------------|------------|
| 11/27/2018 |            |            |            | 1.43       |
| 5/29/2019  | 1.18       | 2.31       | 0.947      | 2.16       |
| 10/1/2019  | 0.284 (U)  | 1.52       | 0.7        | 2.14       |
| 3/31/2020  | 0.699      | 0.478 (U)  | 0.323 (U)  | 0.754      |
| 5/18/2021  | 0.72 (U)   | 0.749 (U)  | 0.734 (U)  |            |
| 11/1/2021  | 0.523 (U)  | 0.688 (U)  | 0.888 (U)  |            |
| 11/2/2021  |            |            |            | 2.06       |
| 5/24/2022  | 0.732 (U)  |            |            |            |
| 5/25/2022  |            | 1.72       | 0.821 (U)  | 1.71       |
| 10/31/2022 |            |            | 0.927      | 0.75 (U)   |
| 11/1/2022  |            | 0.505 (U)  |            |            |
| 11/2/2022  | 0.366 (U)  |            |            |            |
| 4/3/2023   | 0.24 (U)   |            |            |            |
| 4/4/2023   |            | 0.479 (U)  | 1.82       | 1.15       |
| Mean       | 0.593      | 1.056      | 0.895      | 1.519      |
| Std. Dev.  | 0.3089     | 0.6999     | 0.4236     | 0.5912     |
| Upper Lim. | 0.9204     | 1.724      | 1.328      | 2.146      |
| Lower Lim. | 0.2656     | 0.4493     | 0.485      | 0.8926     |

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/22/2023 11:30 AM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | BY-AP-MW-6 | BY-AP-MW-7 | BY-AP-MW-8 | BY-AP-MW-9 |
|------------|------------|------------|------------|------------|
| 5/29/2019  | -0.276 (U) | 0.244 (U)  | 0.627 (U)  |            |
| 5/30/2019  |            |            |            | 1.08       |
| 9/30/2019  |            | 0.388 (U)  | 0.321 (U)  | 0.58       |
| 10/1/2019  | 0.742      |            |            |            |
| 3/30/2020  |            | 0.744      | 0.6        |            |
| 3/31/2020  | 0.291 (U)  |            |            | 0.82       |
| 5/11/2021  |            |            | 0.648 (U)  |            |
| 5/17/2021  | 1.84       |            |            |            |
| 5/18/2021  |            | 0.597 (U)  |            | 0.98 (U)   |
| 10/26/2021 |            |            | 1.61       |            |
| 10/27/2021 |            | 1.46 (U)   |            | 1.07 (U)   |
| 11/2/2021  | 0.773 (U)  |            |            |            |
| 5/24/2022  |            | 1.05 (U)   | 0.733 (U)  | 2.11       |
| 5/25/2022  | 1.06 (U)   |            |            |            |
| 10/31/2022 | 0.925      | 0.932      |            | 1.64       |
| 11/2/2022  |            |            | 0.503 (U)  |            |
| 4/3/2023   |            | 0.49 (U)   | 1.21       |            |
| 4/4/2023   | 1.33       |            |            | 1.05 (U)   |
| Mean       | 0.8356     | 0.7381     | 0.7815     | 1.166      |
| Std. Dev.  | 0.6388     | 0.3972     | 0.4203     | 0.4846     |
| Upper Lim. | 1.513      | 1.159      | 1.227      | 1.68       |
| Lower Lim. | 0.1585     | 0.3171     | 0.336      | 0.6526     |

# Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 6/22/2023 11:30 AM 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 |
|------------|------------|-------------|-------------|-------------|
| 9/30/2019  |            | <0.125      | 0.0733 (J)  |             |
| 10/1/2019  | 0.0744 (J) |             |             | 0.0682 (J)  |
| 3/30/2020  | 0.0726 (J) |             |             |             |
| 3/31/2020  |            | <0.125      | 0.078 (J)   | 0.0755 (J)  |
| 9/1/2020   | 0.194      | 0.0794 (J)  | 0.0841 (J)  | 0.0845 (J)  |
| 5/11/2021  |            | 0.105       |             |             |
| 5/18/2021  | 0.0884 (J) |             |             | 0.0614 (J)  |
| 5/19/2021  |            |             | 0.0994 (J)  |             |
| 10/27/2021 |            | <0.125      |             |             |
| 11/1/2021  | 0.181      |             |             | 0.0928 (J)  |
| 11/2/2021  |            |             | 0.101       |             |
| 5/23/2022  |            |             | 0.0709 (J)  | 0.0873 (J)  |
| 5/24/2022  | 0.0801 (J) | <0.125      |             |             |
| 11/1/2022  |            |             | 0.0612 (J)  | 0.0695 (J)  |
| 11/2/2022  | 0.0665 (J) | <0.125      |             |             |
| 4/3/2023   | 0.0717 (J) | <0.125      |             |             |
| 4/4/2023   |            |             | 0.126       | 0.081 (J)   |
| Mean       | 0.1036     | 0.1168      | 0.08674     | 0.07753     |
| Std. Dev.  | 0.05231    | 0.01665     | 0.02095     | 0.01072     |
| Upper Lim. | 0.194      | 0.125       | 0.1089      | 0.08889     |
| Lower Lim. | 0.0665     | 0.0794      | 0.06453     | 0.06616     |

# Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 6/22/2023 11:30 AM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-13 | BY-AP-MW-14 | BY-AP-MW-15 | BY-AP-MW-16 |
|------------|-------------|-------------|-------------|-------------|
| 10/1/2019  | 0.0703 (J)  | 0.0885 (J)  | 0.185       | 0.0774 (J)  |
| 3/31/2020  | 0.0665 (J)  | 0.0867 (J)  |             | 0.0602 (J)  |
| 4/1/2020   |             |             | 0.187       |             |
| 9/1/2020   | 0.0757 (J)  |             |             |             |
| 9/2/2020   |             | 0.0957 (J)  | 0.18        | <0.125      |
| 5/11/2021  |             |             | 0.214       |             |
| 5/19/2021  | 0.0748 (J)  |             |             | 0.0793 (J)  |
| 5/25/2021  |             | 0.0957 (J)  |             |             |
| 10/26/2021 | 0.0641 (J)  |             | 0.171       |             |
| 10/27/2021 |             | 0.0651 (J)  |             |             |
| 11/1/2021  |             |             |             | 0.0887 (J)  |
| 5/24/2022  | 0.0769 (J)  |             |             |             |
| 5/25/2022  |             | 0.0733 (J)  | 0.214       | <0.125      |
| 11/1/2022  | 0.13        | 0.0685 (J)  | 0.177       | 0.112 (J)   |
| 4/3/2023   |             |             | 0.26        |             |
| 4/4/2023   | 0.187       |             |             |             |
| 4/5/2023   |             | 0.127       |             | 0.144       |
| Mean       | 0.09316     | 0.08756     | 0.1985      | 0.1015      |
| Std. Dev.  | 0.04334     | 0.01986     | 0.02961     | 0.02919     |
| Upper Lim. | 0.187       | 0.1086      | 0.229       | 0.1181      |
| Lower Lim. | 0.0641      | 0.06651     | 0.1685      | 0.06402     |

# Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 6/22/2023 11:30 AM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-2 | BY-AP-MW-5 | BY-AP-MW-7 | BY-AP-MW-8 |
|------------|------------|------------|------------|------------|
| 5/29/2019  |            | 0.0923 (J) |            |            |
| 9/30/2019  |            |            | 0.0925 (J) | 0.0559 (J) |
| 10/1/2019  | <0.125     | 0.0557 (J) |            |            |
| 3/30/2020  |            |            | 0.0933 (J) | 0.0701 (J) |
| 3/31/2020  | <0.125     | 0.0735 (J) |            |            |
| 8/31/2020  | <0.125     |            |            |            |
| 9/1/2020   |            | 0.0921 (J) |            |            |
| 9/2/2020   |            |            | 0.109      | <0.125     |
| 5/11/2021  |            |            |            | 0.094 (J)  |
| 5/18/2021  | <0.125     |            | 0.11       |            |
| 10/26/2021 |            |            |            | <0.125     |
| 10/27/2021 |            |            | 0.0823 (J) |            |
| 11/1/2021  | <0.125     |            |            |            |
| 11/2/2021  |            | 0.0964 (J) |            |            |
| 5/24/2022  | <0.125     |            | 0.0724 (J) | 0.0713 (J) |
| 5/25/2022  |            | <0.125     |            |            |
| 10/31/2022 |            | 0.0614 (J) | 0.381      |            |
| 11/2/2022  | 0.0711 (J) |            |            | <0.125     |
| 4/3/2023   | <0.125     |            | 0.171      | 0.0706 (J) |
| 4/4/2023   |            | 0.0631 (J) |            |            |
| Mean       | 0.1183     | 0.08244    | 0.1389     | 0.09211    |
| Std. Dev.  | 0.01906    | 0.02333    | 0.1023     | 0.02913    |
| Upper Lim. | 0.125      | 0.1072     | 0.381      | 0.125      |
| Lower Lim. | 0.0711     | 0.05771    | 0.0724     | 0.0559     |

# Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 6/22/2023 11:30 AM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | BY-AP-MW-9 |
|------------|------------|
| 9/30/2019  | 0.0679 (J) |
| 3/31/2020  | 0.0655 (J) |
| 9/2/2020   | 0.0804 (J) |
| 5/18/2021  | 0.0709 (J) |
| 10/27/2021 | 0.0803 (J) |
| 5/24/2022  | <0.125     |
| 10/31/2022 | 0.0788 (J) |
| 4/4/2023   | 0.0797 (J) |
| Mean       | 0.07325    |
| Std. Dev.  | 0.007397   |
| Upper Lim. | 0.0804     |
| Lower Lim. | 0.0625     |



# Confidence Interval

Constituent: Lead (mg/L) Analysis Run 6/22/2023 11:30 AM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-1   | BY-AP-MW-11  | BY-AP-MW-12 | BY-AP-MW-13  |
|------------|--------------|--------------|-------------|--------------|
| 9/30/2019  |              | <0.005       |             |              |
| 10/1/2019  | <0.0002      |              | <0.000203   | <0.0002      |
| 3/30/2020  | <0.0002      |              |             |              |
| 3/31/2020  |              | <0.005       | <0.000203   | <0.0002      |
| 9/1/2020   | <0.0002      | <0.005       | <0.000203   | <0.0002      |
| 5/18/2021  | <0.0002      |              | 0.000326    |              |
| 5/19/2021  |              | 0.000102 (J) |             | <0.0002      |
| 10/26/2021 |              |              |             | <0.0002      |
| 11/1/2021  | <0.0002      |              | 0.00029     |              |
| 11/2/2021  |              | 0.00013 (J)  |             |              |
| 5/23/2022  |              | 9E-05 (J)    | 0.00018 (J) |              |
| 5/24/2022  | <0.0002      |              |             | 0.00015 (J)  |
| 11/1/2022  |              | 7.8E-05 (J)  | <0.000203   | 0.000151 (J) |
| 11/2/2022  | 9.2E-05 (J)  |              |             |              |
| 4/3/2023   | 0.000122 (J) |              |             |              |
| 4/4/2023   |              | 6.9E-05 (J)  | <0.000203   | 0.000101 (J) |
| Mean       | 0.0001767    | 0.001934     | 0.0002264   | 0.0001752    |
| Std. Dev.  | 4.379E-05    | 0.002539     | 5.19E-05    | 3.742E-05    |
| Upper Lim. | 0.0002       | 0.005        | 0.000326    | 0.0002       |
| Lower Lim. | 9.2E-05      | 6.9E-05      | 0.00018     | 0.000101     |

# Confidence Interval

Constituent: Lead (mg/L) Analysis Run 6/22/2023 11:30 AM View: AIV  
 Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-14  | BY-AP-MW-16  | BY-AP-MW-4   | BY-AP-MW-6  |
|------------|--------------|--------------|--------------|-------------|
| 10/1/2019  | <0.005       | <0.000203    | <0.005       | 0.00545     |
| 3/31/2020  | <0.005       | <0.000203    | <0.005       | 0.00276 (J) |
| 9/1/2020   |              |              | <0.005       |             |
| 9/2/2020   | <0.005       | <0.000203    |              | 0.00171 (J) |
| 5/17/2021  |              |              |              | 0.00162     |
| 5/18/2021  |              |              | 0.00013 (J)  |             |
| 5/19/2021  |              | 0.000191 (J) |              |             |
| 5/25/2021  | 7.64E-05 (J) |              |              |             |
| 10/27/2021 | 9E-05 (J)    |              |              |             |
| 11/1/2021  |              | <0.000203    | 7E-05 (J)    |             |
| 11/2/2021  |              |              |              | 0.00336     |
| 5/25/2022  | 0.0001 (J)   | <0.000203    | 0.00018 (J)  | 0.0112      |
| 10/31/2022 |              |              | 0.000144 (J) | 0.00148     |
| 11/1/2022  | 8.3E-05 (J)  | <0.000203    |              |             |
| 4/4/2023   |              |              | 8.5E-05 (J)  | 0.00183     |
| 4/5/2023   | 0.00011 (J)  | <0.000203    |              |             |
| Mean       | 0.001932     | 0.0002015    | 0.001951     | 0.003676    |
| Std. Dev.  | 0.00254      | 4.243E-06    | 0.002525     | 0.003317    |
| Upper Lim. | 0.005        | 0.000203     | 0.005        | 0.006029    |
| Lower Lim. | 7.64E-05     | 0.000191     | 7E-05        | 0.001339    |

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 6/22/2023 11:30 AM View: AIV  
Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-11 | BY-AP-MW-15 | BY-AP-MW-7 |
|------------|-------------|-------------|------------|
| 9/30/2019  | 0.0228      |             | <0.02      |
| 10/1/2019  |             | 0.0248      |            |
| 3/30/2020  |             |             | 0.0102 (J) |
| 3/31/2020  | 0.022       |             |            |
| 4/1/2020   |             | 0.0174 (J)  |            |
| 9/1/2020   | <0.02       |             |            |
| 9/2/2020   |             | <0.02       | <0.02      |
| 5/11/2021  |             | 0.00788 (J) |            |
| 5/18/2021  |             |             | 0.0882     |
| 5/19/2021  | 0.00754 (J) |             |            |
| 10/26/2021 |             | 0.0117 (J)  |            |
| 10/27/2021 |             |             | <0.02      |
| 11/2/2021  | <0.02       |             |            |
| 5/23/2022  | 0.0269      |             |            |
| 5/24/2022  |             |             | <0.02      |
| 5/25/2022  |             | 0.0118 (J)  |            |
| 10/31/2022 |             |             | <0.02      |
| 11/1/2022  | 0.0182 (J)  | <0.02       |            |
| 4/3/2023   |             | 0.0189 (J)  | <0.02      |
| 4/4/2023   | 0.034       |             |            |
| Mean       | 0.02143     | 0.01656     | 0.0273     |
| Std. Dev.  | 0.007536    | 0.005598    | 0.02485    |
| Upper Lim. | 0.02861     | 0.02058     | 0.0882     |
| Lower Lim. | 0.01069     | 0.009311    | 0.0102     |

# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 6/22/2023 11:30 AM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-1   | BY-AP-MW-11 | BY-AP-MW-12 | BY-AP-MW-13 |
|------------|--------------|-------------|-------------|-------------|
| 9/30/2019  |              | <0.01015    |             |             |
| 10/1/2019  | <0.01015     |             | <0.01015    | <0.01       |
| 3/30/2020  | <0.01015     |             |             |             |
| 3/31/2020  |              | <0.01015    | <0.01015    | <0.01       |
| 9/1/2020   | <0.01015     | <0.01015    | <0.01015    | <0.01       |
| 5/18/2021  | 0.000106 (J) |             | 0.000947    |             |
| 5/19/2021  |              | 0.00652     |             | 0.000437    |
| 10/26/2021 |              |             |             | 0.00043     |
| 11/1/2021  | 8E-05 (J)    |             | 0.00099     |             |
| 11/2/2021  |              | 0.00161     |             |             |
| 5/23/2022  |              | 0.00141     | 0.00109     |             |
| 5/24/2022  | <0.01015     |             |             | 0.00356     |
| 11/1/2022  |              | 0.000972    | 0.000942    | 0.00585     |
| 11/2/2022  | <0.01015     |             |             |             |
| 4/3/2023   | <0.01015     |             |             |             |
| 4/4/2023   |              | <0.01015    | <0.01015    | 0.0108      |
| Mean       | 0.007636     | 0.006389    | 0.005571    | 0.006385    |
| Std. Dev.  | 0.004655     | 0.004368    | 0.004895    | 0.004437    |
| Upper Lim. | 0.01015      | 0.01015     | 0.01015     | 0.0108      |
| Lower Lim. | 8E-05        | 0.000972    | 0.000942    | 0.00043     |

# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 6/22/2023 11:30 AM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-14 | BY-AP-MW-15 | BY-AP-MW-16  | BY-AP-MW-5  |
|------------|-------------|-------------|--------------|-------------|
| 5/29/2019  |             |             |              | <0.01015    |
| 10/1/2019  | <0.01015    | <0.01015    | <0.01015     | <0.01015    |
| 3/31/2020  | <0.01015    |             | <0.01015     | <0.01015    |
| 4/1/2020   |             | <0.01015    |              |             |
| 9/1/2020   |             |             |              | <0.01015    |
| 9/2/2020   | <0.01015    | 0.00209 (J) | <0.01015     |             |
| 5/11/2021  |             | 0.00171     |              |             |
| 5/19/2021  |             |             | 0.000136 (J) |             |
| 5/25/2021  | 0.000701    |             |              |             |
| 10/26/2021 |             | 0.00206     |              |             |
| 10/27/2021 | 0.00053     |             |              |             |
| 11/1/2021  |             |             | <0.01015     |             |
| 11/2/2021  |             |             |              | 0.00012 (J) |
| 5/25/2022  | 0.00052     | 0.0018      | <0.01015     | 0.00011 (J) |
| 10/31/2022 |             |             |              | 0.000344    |
| 11/1/2022  | 0.000643    | 0.00173     | <0.01015     |             |
| 4/3/2023   |             | <0.01015    |              |             |
| 4/4/2023   |             |             |              | <0.01015    |
| 4/5/2023   | <0.01015    |             | <0.01015     |             |
| Mean       | 0.005374    | 0.00498     | 0.008898     | 0.006416    |
| Std. Dev.  | 0.005106    | 0.004283    | 0.00354      | 0.005155    |
| Upper Lim. | 0.01015     | 0.01015     | 0.01015      | 0.01015     |
| Lower Lim. | 0.00052     | 0.00171     | 0.000136     | 0.00011     |

# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 6/22/2023 11:30 AM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

|            | BY-AP-MW-6   | BY-AP-MW-7  | BY-AP-MW-8  | BY-AP-MW-9   |
|------------|--------------|-------------|-------------|--------------|
| 9/30/2019  |              | <0.01015    | <0.01015    | <0.01015     |
| 10/1/2019  | <0.01015     |             |             |              |
| 3/30/2020  |              | <0.01015    | <0.01015    |              |
| 3/31/2020  | <0.01015     |             |             | <0.01015     |
| 9/2/2020   | <0.01015     | <0.01015    | <0.01015    | <0.01015     |
| 5/11/2021  |              |             | 0.000321    |              |
| 5/17/2021  | 0.000117 (J) |             |             |              |
| 5/18/2021  |              | 0.000214    |             | 0.00022      |
| 10/26/2021 |              |             | 0.00019 (J) |              |
| 10/27/2021 |              | 0.00018 (J) |             | 0.00021      |
| 11/2/2021  | 0.00011 (J)  |             |             |              |
| 5/24/2022  |              | 0.00018 (J) | 0.00023     | 0.00024      |
| 5/25/2022  | 0.00033      |             |             |              |
| 10/31/2022 | 0.000122 (J) | 0.00289     |             | 0.000157 (J) |
| 11/2/2022  |              |             | 0.000232    |              |
| 4/3/2023   |              | <0.01015    | <0.01015    |              |
| 4/4/2023   | <0.01015     |             |             | <0.01015     |
| Mean       | 0.00516      | 0.005508    | 0.005197    | 0.005178     |
| Std. Dev.  | 0.005335     | 0.005041    | 0.005296    | 0.005315     |
| Upper Lim. | 0.01015      | 0.01015     | 0.01015     | 0.01015      |
| Lower Lim. | 0.00011      | 0.00018     | 0.00019     | 0.000157     |

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 6/22/2023 11:30 AM View: AIV  
Plant Barry Client: Southern Company Data: Barry Ash Pond

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|            | BY-AP-MW-13  |
|------------|--------------|
| 10/1/2019  | <0.00102     |
| 3/31/2020  | <0.00102     |
| 9/1/2020   | <0.00102     |
| 5/19/2021  | <0.00102     |
| 10/26/2021 | <0.00102     |
| 5/24/2022  | 0.00056 (J)  |
| 11/1/2022  | 0.000611 (J) |
| 4/4/2023   | 0.000664 (J) |
| Mean       | 0.0008669    |
| Std. Dev.  | 0.0002132    |
| Upper Lim. | 0.00102      |
| Lower Lim. | 0.00056      |