

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

**MISSISSIPPI POWER COMPANY  
PLANT VICTOR DANIEL  
ASH POND B**

**January 31, 2024**

Prepared for

Mississippi Power Company  
Gulfport, Mississippi

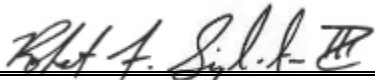
By

Southern Company Services  
Earth Science and Environmental Engineering



## CERTIFICATION STATEMENT

This *2023 Annual Groundwater Monitoring and Corrective Action Report*, Mississippi Power Company – Plant Daniel Ash Pond B has been prepared to comply with the United States Environmental Protection Agency coal combustion residual rule (40 Code of Federal Regulations (CFR) Part 257, Subpart D) under the supervision of a licensed Professional Geologist with Southern Company Services.



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## **SITE SUMMARY**

In accordance with the United States Environmental Protection Agency (EPA) coal combustion residual (CCR) rule (40 CFR Part 257, Subpart D), this *2023 Annual Groundwater Monitoring and Corrective Action Report* has been prepared to document 2023 semi-annual assessment groundwater monitoring activities at the Plant Daniel Ash Pond B (AP-B) and to satisfy the requirements of § 257.90(e). Semi-annual assessment monitoring and associated reporting for Plant Daniel AP-B is performed in accordance with the monitoring requirements § 257.90 through § 257.95.

Statistically significant increases (SSIs) of Appendix III constituents over background were identified in the results of the first detection monitoring event and assessment monitoring was initiated in January 2018. Statistically significant levels (SSLs) of the Appendix IV parameter lithium were identified in BAW-5 during the 2018 monitoring period. An alternate source demonstration (ASD) was prepared to address the SSLs for lithium and was completed July 12, 2019. The ASD was submitted in the *2019 Annual Groundwater Monitoring and Corrective Action Report*. Therefore, pursuant to §257.95(g)(3)(ii), an assessment of corrective measures is not required, and AP-B remained in assessment monitoring.

The CCR unit began the 2023 monitoring period in assessment monitoring pursuant to §257.95. SSLs for lithium were identified in BAW-5 and are addressed by the previously referenced ASD. Therefore, AP-B remains in assessment monitoring.

Pursuant to 40 CFR 257.90(e)(6), the table titled Monitoring Period Summary was prepared to describe the status of groundwater monitoring and corrective action during this report's monitoring period.

## Monitoring Period Summary Plant Daniel - Ash Pond B

Monitoring Period: January 1 - December 31, 2023  
 Beginning Status: Assessment  
 Ending Status: Assessment

### STATISTICAL ANALYSIS RESULTS\*

#### Appendix III SSIs

| Parameter | Wells                      |
|-----------|----------------------------|
| Boron     | BAW-4, BAW-5, BAW-7        |
| Calcium   | BAW-4, BAW-5, BAW-7        |
| pH        | BAW-3, BAW-5               |
| Sulfate   | BAW-3, BAW-4, BAW-5, BAW-7 |
| TDS       | BAW-5                      |

#### Appendix IV SSLs

| Parameter | Wells |
|-----------|-------|
| Lithium   | BAW-5 |

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

### ASSESSMENT OF CORRECTIVE MEASURES & GROUNDWATER REMEDY

#### Assessment of Corrective Measures

Site Remains in Assessment Monitoring § 257.95(d)

#### Groundwater Remedy

Site Remains in Assessment Monitoring § 257.95(d)

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## **1.0 INTRODUCTION**

In accordance with the United States Environmental Protection Agency (EPA) coal combustion residual (CCR) rule (40 Code of Federal Regulations (CFR) 257, Subpart D), Southern Company Services (SCS) has prepared this *2023 Annual Groundwater Monitoring and Corrective Action Report* to document groundwater monitoring activities at Mississippi Power Company (MPC) Plant Daniel Ash Pond B (AP-B).

Groundwater monitoring and reporting for the CCR unit is performed in accordance with the monitoring requirements of 40 CFR 257.90 through 257.95 of the Federal CCR rule. This report has been prepared to document the 2023 semi-annual groundwater monitoring events at the AP-B and to satisfy the requirements of § 257.90(e).

## 2.0 SITE DESCRIPTION

The Site is located within Section 35, Township 5 South, Range 6 West, Sections 37, 10, 15, East half of Section 9, Southwest ¼ of Section 2, Northwest ¼ and south half of Section 11, and the north half and northwest ¼ of the southwest ¼ of Section 14, all of Township 6 South, Range 6 West. The Site is northwest of the intersection of Mississippi State Highways 63 and 613, between the Pascagoula River to the west and Highway 63 to the east. The site address is 13201 Highway 63 N, Escatawpa, Mississippi 39562.

AP-B is north of the main plant. **Figure 1, Site Location Map**, depicts the location of Plant Daniel relative to site features and the surrounding area.

### 2.1 Regional Geology & Hydrogeologic Setting

Jackson County lies in the Pascagoula River Drainage Basin in the Gulf Coastal Plain physiographic province. Topographically, the province is gently rolling to flat with local salt marshes. Rock outcrops are sedimentary in origin and range in age from late Miocene to Recent (Gandl, 1982). A dominant regional structural feature which affects the sediments of Miocene and younger age is the Gulf Coast geosyncline. The sediments dip toward the Gulf of Mexico. Where formations are near the surface, dips are from 15 to 35 feet/mile. Further from the outcrop, dips increase dramatically with depth. Fresh-water aquifers in the Pascagoula area are sand, or a mix of sand and gravel beds of Miocene age or younger, less than 1,000 feet below the surface.

The surface geology of soils near Plant Daniel results from present-day weathering processes dictated by southern Mississippi's semi-tropical climate and the parent geologic materials. The soil profile formed from a wide variety of sediments of recent age, and from Pleistocene terrace deposits. The soils therefore contain sand, silt, clay, gravel, and organics.

Studies prepared by SCS, establish five geologic units underlying the immediate Plant Daniel property:

- Unit 1 is a sandy clay aquitard. The unit is discontinuous across the Plant Daniel site and extends from the surface to approximately 32 feet deep in some areas.
- Unit 2 is a sand aquifer, which extends to approximately 70 feet and is considered the uppermost aquifer for groundwater monitoring purposes.
- Unit 3 is a clay aquitard underlying Unit 2 with thicknesses ranging from 2.5 to 9.5 feet at Plant Daniel.
- Unit 4 is a sand and gravel aquifer with a thickness of 34 feet or greater.
- Unit 5 is a clay aquitard.

### 2.2 Uppermost Aquifer

Two aquifers supply water to the Pascagoula area. These are the Pliocene-age Citronelle and the Miocene Aquifer System, which includes the Graham Ferry Aquifer. Plant Daniel is in the Citronelle outcrop area.

The Citronelle Aquifers are the shallowest aquifers in the Pascagoula area. Although principally a sand and gravel formation, the Citronelle is characterized by occasional lenses and layers of clay which may cause semi-artesian conditions. Sediments become coarse near the irregular contact with the underlying Pascagoula or Graham Ferry Formation. Also, the Citronelle and overlying coastal deposits are considered



one hydrogeologic unit. The Citronelle is primarily a water table aquifer with a saturated thickness of about 45 feet. Recharge is primarily by rainfall which moves vertically and down dip to recharge underlying aquifers and to sustain local streams (Wasson, 1978).

For groundwater monitoring purposes, the Unit 2 sand is the uppermost aquifer screened by site monitoring wells.

### **3.0 GROUNDWATER MONITORING SYSTEM AND ACTIVITY**

Pursuant to § 257.91, MPC installed a groundwater monitoring system to monitor groundwater within the uppermost aquifer (Unit 2). The Professional Engineer (PE)-certified groundwater monitoring system for AP-B is designed to monitor groundwater passing the waste boundary of the CCR unit within the uppermost aquifer. As required by § 257.90(e), the following also describes monitoring-related activities performed during the preceding year.

#### **3.1 Groundwater Monitoring System**

The groundwater monitoring network is comprised of 6 monitoring wells as presented on **Figure 2, Monitoring Well Location Map. Table 1, Monitoring Well Network Summary**, summarizes the monitoring well construction details and design purpose for the AP-B.

Monitoring wells BAW-1 and BAW-2A serve as upgradient locations for the Ash Pond. Upgradient wells are screened within the same uppermost aquifer as downgradient locations and are representative of background groundwater quality at the site. Monitoring well locations BAW-3 through BAW-7 are utilized as downgradient locations for AP-B. Downgradient locations were determined by water level monitoring and potentiometric surface maps constructed for the site.

#### **3.2 Monitoring Well Installation and Maintenance**

There was no change to the groundwater monitoring system in 2023 aside from one monitoring well modification at BAW-7; the network remained the same as in the previous reporting year. Monitoring well-related activities were limited to visual inspection of well conditions prior to sampling, recording the site conditions, and performing exterior maintenance to perform sampling under safe and clean conditions.

Due to closure-by-removal activities at AP-B, raising the well riser, well pad, and protective casing were required at monitoring well BAW-7. As part of the closure-by-removal efforts at AP-B, the existing grade near BAW-7 was raised about 5 feet from elevation 32 feet above mean sea level (ft MSL) to 37 ft MSL to construct a perimeter dike road. On June 2, 2022, the existing concrete pad, bollards, and protective casing at BAW-7 were carefully removed, and a 4-inch diameter steel drill casing was set around the polyvinyl chloride (PVC) riser approximately 4 feet below grade to approximately 6 feet above grade. The steel casing remained in place to protect the monitoring well, and the surrounding grade was raised during the closure process.

On January 20, 2023, modifications to BAW-7 were completed. A grout seal was installed around the PVC riser to the new ground surface as the steel drill casing was removed. The well was completed as a flush-mounted well with a 3-feet by 3-feet concrete pad and 12-inch well vault. Survey of the new ground surface and top of well casing was completed by Thompson Engineering on January 23, 2023.

#### **3.3 Assessment Monitoring**

The AP-B began 2023 in assessment monitoring pursuant to 40 CFR § 257.95(a). The first semi-annual assessment monitoring event was completed by sampling wells for Appendix III and Appendix IV parameters in April 2023, and the semi-annual monitoring event was repeated in October 2023 pursuant to 40 CFR § 257.95(f). Analytical data from the semi-annual monitoring events are included as **Appendix A**,

**Laboratory Analytical and Field Sampling Reports**, in accordance with the requirements of § 257.90(e)(3).

## 4.0 SAMPLE METHODOLOGY & ANALYSIS

The following describes the methods used to complete groundwater monitoring at AP-B.

### 4.1 Groundwater Flow Direction, Gradient, and Velocity

Before each sampling event, groundwater levels were measured and recorded to the nearest 0.01 foot within 24 hours. Groundwater levels recorded during the monitoring events are summarized in **Table 2, Groundwater Elevations Summary - 2023**. Groundwater levels and top of casing elevations were used to calculate groundwater elevation.

As part of AP-B closure, a dewatering system was installed and in operation during the 2021 and 2022 monitoring periods. The dewatering system significantly lowered the groundwater level at AP-B to facilitate the excavation of CCR material and pond liner. In all, 22 extraction wells were installed around the perimeter of Ash Pond B. While the dewatering system was active, groundwater elevations were lowered and were not consistent with historical levels. The dewatering system was active from April 2021 through March 2023. After CCR material was removed, a lined storage water pond was constructed at the former CCR storage area and filled with groundwater extracted from the dewatering system. The dewatering system was shut off in March 2023 and groundwater elevations have since returned to equilibrium.

As shown in **Figure 3, Potentiometric Surface Contour Map – April 17, 2023**, and **Figure 4, Potentiometric Surface Contour Map – October 23, 2023**, groundwater elevations have returned to equilibrium since the dewatering wells were shut off. Groundwater flows from northeast to southwest across the site, consistent with historical observations.

Groundwater flow velocities at the site were calculated based on hydraulic gradients, hydraulic conductivity from previous slug test results, and an estimated effective porosity of the screened horizon. Based on slug test data collected from AP-B wells, the average hydraulic conductivity at the site is approximately 25 feet per day. The hydraulic gradient was calculated between well pairs shown on **Table 3, Groundwater Flow Velocity Calculations - 2023**. An effective porosity of 0.2 was used based on the default values for effective porosity recommended by USEPA for a silty sand-type soil (USEPA, 1989).

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  $\left(\frac{\text{feet}}{\text{day}}\right)$

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

$i$  = Horizontal hydraulic gradient

$n_e$  = Effective porosity

Using this equation, groundwater flow velocities are calculated for various areas of the site and are tabulated on **Table 3**.

Groundwater monitoring wells BAW-1 and BAW-5 were used as points for calculating Flow Path A and BAW-3 and BAW-5 were used to calculate Flow Path B.

During the 2023 monitoring period, the horizontal hydraulic gradients range from 0.0013 feet per foot (ft/ft) to 0.0019 ft/ft. As presented on **Table 3**, groundwater flow velocity at the site ranges from approximately 0.16 feet per day (ft/day) (or approximately 58.40 feet per year (ft/yr)) to 0.24 ft/day (or approximately 85.85 feet per year) across AP-B. These calculated groundwater flow velocities are consistent with historical calculations performed prior to operation of the dewatering system, indicating that site groundwater elevations have returned to natural conditions.

#### **4.2 Groundwater Sampling**

Groundwater samples were collected from monitoring wells using low-flow sampling procedures in accordance with § 257.93(a). All monitoring wells at the Site are equipped with a dedicated pump. Monitoring wells were purged and sampled using low-flow sampling procedures whereby samples are collected when field water quality parameters (pH, turbidity, conductivity, and dissolved oxygen (DO)) were measured to determine stabilization. Groundwater samples were collected when the following stabilization criteria were met:

- 0.2 standard units for pH
- 5% for specific conductance
- 0.2 milligrams per Liter (mg/L) or 10% for DO > 0.5 mg/L (whichever is greater)
- Turbidity measurements less than 5 nephelometric turbidity unit (NTU)
- Temperature and oxidation reduction potential (ORP) – record only, no stabilization criteria

During purging and sampling a SmarTroll instrument or similar 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.

#### **4.3 Laboratory Analysis**

Laboratory analyses was performed by Eurofins Environment Testing (Eurofins) of Pittsburgh, Pennsylvania and St. Louis, Missouri. Eurofins is accredited by National Environmental Laboratory Accreditation Program (NELAP). Eurofins maintains a NELAP certification for all parameters analyzed for this project. Groundwater analytical data and chain-of-custody records for the monitoring events are presented in **Appendix A**.

#### **4.4 Quality Assurance and Quality Control**

During each sampling event, quality assurance/quality control samples (QA/QC) were collected at a rate of one sample per every 10 detection samples. Equipment blanks and duplicate samples were also collected during each sampling event. QA/QC sample data was evaluated during data validation and is included in **Appendix A**. When values are followed by a "J" flag, this indicates that the value is an estimated analyte concentration detected between the method detection limit (MDL) and the laboratory reporting limit (RL). The estimated value is positively identified but is below lowest level that can be reliably achieved within specified limits of precision and accuracy under routine laboratory operating conditions.

Analytical precision is measured through the calculation of the relative percent difference (RPD) of two data sets generated from a similar source. Here, comparison of samples to field duplicate samples is used as a measure of laboratory precision. For groundwater analytical data, quality control procedures include calculating the RPD (where field duplicates are collected) between the sample and duplicate sample duplicate concentrations. The calculation is:

$$RPD = \frac{Conc1 - Conc2}{(Conc1 + Conc2) / 2}$$

Where:

RPD = Relative Percent Difference (%)

Conc1 = Higher concentration of the sample or field duplicate

Conc2 = Lower concentration of the sample or field duplicate

A RPD is calculated for each constituent detected above the RL. Where the 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 4, Relative Percent Difference Calculations**, provides the relative percent differences for sample and sample duplicates during 2023 sampling events.

Barium was detected in the field blank (FB-01) collected on October 24, 2023, at an estimated (J-flagged) concentration of 0.000970 mg/L. Validation procedures require further data qualification for samples collected on the same day as the field blank if the result is less than five times the blank result. In this case, none of the samples collected on October 24, 2023, exhibited barium concentrations less than five times the result observed in the field blank. Therefore, further data qualification is not required.

## 5.0 STATISTICAL ANALYSIS

Statistical analysis of Appendix III and IV groundwater monitoring data was performed on samples collected from the certified groundwater monitoring network pursuant to 40 CFR § 257.93 and following the appropriate PE-certified method. The statistical method used at the site was developed by Groundwater Stats Consulting, LLC. (GSC), in accordance with 40 CFR § 257.93(f) using methodology presented in *Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance*, March 2009, EPA 530/R-09-007 (USEPA, 2009). Results are included in **Appendix B, Statistical Data Evaluation**.

### 5.1 Statistical Methodology and Test

The Sanitas Groundwater statistical software is used to perform statistical analyses. Sanitas is a decision support software package that incorporates the statistical tests required of Subtitle C and D facilities by EPA regulations. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015) as well as with the EPA Unified Guidance (2009).

#### 5.1.1 Appendix III Evaluation

Statistical tests used to evaluate the groundwater monitoring data consist of interwell prediction limits combined with a 1-of-2 verification resample plan for each of the Appendix III parameters. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent, and the most recent sample from each downgradient well is compared to the same limit for each parameter. When an initial (or apparent) statistically significant increase or questionable result occurs, a second sample may be collected to verify the initial result or determine if the result was an outlier. If the second sample exceeds its respective background statistical limit, a statistically significant increase (SSI) is identified. If the second sample is below its respective background limit there is no SSI. A summary table of the statistical limits accompanies the prediction limits in **Appendix B**.

#### 5.1.2 Appendix IV Evaluation

When in assessment monitoring, Appendix IV constituents are sampled semi-annually, and concentrations are compared to GWPS. 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 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 Maximum Contaminant Level (MCL). Appendix IV background data are screened for outliers and extreme trending patterns that would lead to artificially elevated statistical limits.

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

As described in § 257.95(h)(1)-(3), the GWPS is:

- (1) The MCL established under § 141.62 and 141.66 of this title.
- (2) Where an MCL has not been established:

- (i) Cobalt 0.006 milligrams per liter (mg/L);
  - (ii) Lead 0.015 mg/L;
  - (iii) Lithium 0.040 mg/L; and
  - (iv) Molybdenum 0.100 mg/L.
- (3) Background levels for constituents where the background level is higher than the MCL or rule-identified GWPS.

Following the above requirements, GWPS have been established for statistical comparison of Appendix IV constituents.

## 5.2 Statistical Analysis Results

Analytical data from the 2023 semi-annual monitoring events in April and October were statistically analyzed in accordance with the PE-certified Statistical Analysis Plan (October 2017) and Statistical Background Updates performed by GSC (December 2019). Appendix III statistical analysis was performed to determine if constituents have returned to background levels. Appendix IV assessment monitoring parameters were evaluated to determine if concentrations statistically exceeded the established groundwater protection standard.

### 5.2.1 Appendix III Constituents

A review of the Sanitas results presented in **Appendix B** identified the following Appendix III SSIs during the first semi-annual monitoring event:

- BAW-3: pH, Sulfate
- BAW-4: Calcium
- BAW-5: Boron, Calcium, pH, Sulfate, and TDS
- BAW-7: Boron, Calcium, Sulfate

During the second semi-annual monitoring event, the following SSIs were identified:

- BAW-3: pH, Sulfate
- BAW-4: Boron, Calcium, and Sulfate
- BAW-5: Boron, Calcium, pH, Sulfate and TDS

Since the site is performing assessment monitoring, no further action is required regarding these SSIs.

### 5.2.2 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 used for statistical comparison. To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV parameters in each downgradient well. Those confidence intervals were compared to the GWPS. Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its respective standard.

Using GWPS established according to 40 CFR §257.95(h), statistical analysis of Appendix IV data identified the following Statistically Significant Level (SSL) of a GWPS during the first and second semi-



annual monitoring events at the listed well:

- BAW-5: Lithium

In accordance with §257.95(g), a notification identifying the SSLs for lithium was placed in the facility's Operating Record on November 14, 2018. As discussed below, an alternate source demonstration (ASD) was previously prepared for this SSL and no further action is required.

## **6.0 ALTERNATE SOURCE DEMONSTRATION**

In accordance with 40 CFR § 257.95(g)(3)(ii), an ASD was prepared for lithium at AP-B. The ASD was completed by July 12, 2019, and submitted in the *2019 Annual Groundwater Monitoring and Corrective Action Report*. Therefore, pursuant to §257.95(g)(3)(ii), an assessment of corrective measures is not required, and AP-B will remain in assessment monitoring.

## **7.0 MONITORING PROGRAM STATUS**

In accordance with § 257.94(e) MPC implemented assessment monitoring in January 2018. SSIs of Appendix III and SSLs of Appendix IV parameters were identified at AP-B during sampling events conducted in 2021. An ASD was completed for the Appendix IV constituent exceeding the GWPS on July 12, 2019.

Removal of CCR material at AP-B was completed in September 2021 and the site was certified clean closed in early 2022. Construction activities continued as AP-B was repurposed into three lined settlement ponds for plant process water. Construction was completed in early 2023. MPC will continue groundwater monitoring in accordance with CCR rule 257.102(c).

Therefore, in accordance with § 257.95(g)(3)(ii), MPC will continue assessment monitoring.

## **8.0 CONCLUSIONS & FUTURE ACTIONS**

Semi-annual assessment monitoring and associated reporting for Plant Daniel AP-B is performed in accordance with the monitoring requirements § 257.90 through § 257.95. The certified compliance monitoring well network was resampled on a semi-annual basis and were analyzed for Appendix III and IV parameters. Statistical evaluations of the April and October 2023 assessment monitoring data identified lithium SSLs of Appendix IV constituents above the GWPS. An ASD was prepared to address lithium GWPS exceedances at compliance well BAW-5. The ASD was completed by July 12, 2019 in accordance with § 257.95(g)(3)(ii) and submitted in the *2019 Annual Groundwater Monitoring and Corrective Action Report*. Therefore, in accordance with § 257.95(d), MPC will continue assessment monitoring.

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

- Continue semi-annual assessment monitoring in 2024.
- Submit the 2024 Annual Groundwater Monitoring and Corrective Report by January 31, 2025.

## 9.0 REFERENCES

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# Tables

**Table 1.  
Monitoring Well Network Summary**

| <b>Well ID</b> | <b>Purpose</b> | <b>Installation Date</b> | <b>Latitude</b> | <b>Longitude</b> | <b>Total Well Depth (feet)</b> | <b>Top of Casing Elevation (feet MSL )</b> | <b>Ground Elevation (feet MSL)</b> | <b>Top of Screen Elevation (feet MSL)</b> | <b>Bottom of Screen Elevation (feet MSL)</b> |
|----------------|----------------|--------------------------|-----------------|------------------|--------------------------------|--|------------------------------------|---|--|
| BAW-1          | Upgradient     | 7/23/2015                | 30.54178        | -88.55594        | 60.72                          | 32.24                                      | 29.22                              | -23.18                                    | -28.18                                       |
| BAW-2          | Upgradient     | 7/23/2015                | 30.53975        | -88.5559         | 64.53                          | 42.43                                      | 39.70                              | -11.80                                    | -21.80                                       |
| BAW-2A         | Upgradient     | 3/19/2018                | 30.53969        | -88.5559         | 66.93                          | 41.15                                      | 38.22                              | -15.28                                    | -25.28                                       |
| BAW-3          | Downgradient   | 7/23/2015                | 30.53747        | -88.55603        | 67.62                          | 40.62                                      | 37.60                              | -16.70                                    | -26.70                                       |
| BAW-4          | Downgradient   | 7/23/2015                | 30.5374         | -88.55766        | 69.13                          | 37.05                                      | 34.12                              | -21.78                                    | -31.78                                       |
| BAW-5          | Downgradient   | 7/23/2015                | 30.53773        | -88.55904        | 69.12                          | 39.93                                      | 37.41                              | -18.89                                    | -28.89                                       |
| BAW-7          | Downgradient   | 7/23/2015                | 30.54105        | -88.55693        | 63.80                          | 35.60                                      | 35.92                              | -18.01                                    | -28.01                                       |
| PZ-8           | Piezometer     | 3/14/2018                | 30.53753        | -88.55888        | 68.29                          | 40.05                                      | 37.26                              | -17.74                                    | -27.74                                       |
| PZ-9           | Piezometer     | 3/15/2018                | 30.53742        | -88.55897        | 62.82                          | 39.32                                      | 36.50                              | -13.00                                    | -23.00                                       |

Notes:

1. BAW-2 was replaced by BAW-2A due to well damage.
2. Elevations shown are referenced Mean Sea Level (MSL) to NAVD 88 (G12) U.S. Survey Feet.
3. MSL refers to Mean Sea Level.
4. BAW-7 was modified during closure to match new grade. Thompson Engineering certified the survey on January 23, 2023.

**Table 2.**  
**Groundwater Elevations Summary - 2023**

| Well ID | Top of Casing<br>Elevation<br><br>(feet MSL) | Groundwater Elevations<br>(feet MSL) |                  |
|---------|--|--------------------------------------|------------------|
|         |  | April 17, 2023                       | October 23, 2023 |
| BAW-1   | 32.24  | 6.93                                 | 7.32             |
| BAW-2A  | 41.15  | 6.24                                 | 6.92             |
| BAW-3   | 40.62  | 5.95                                 | 6.85             |
| BAW-4   | 37.05  | 4.72                                 | 5.80             |
| BAW-5   | 39.93  | 4.68                                 | 5.05             |
| BAW-7   | 35.05  | 6.45                                 | 6.72             |
| PZ-8    | 40.05  | 4.54                                 | 5.32             |
| PZ-9    | 39.32  | 4.51                                 | 5.29             |

Notes:

1. MSL refers to Mean Sea Level



**Table 3.  
Groundwater Flow Velocity Calculations - 2023**

| <b>Flow Path A</b>      |                           |                           |                 |                           |                               |  |  |   |
|-------------------------|---------------------------|---------------------------|-----------------|---------------------------|-------------------------------|--|--|---|
|                         | <b>BAW-1</b>              | <b>BAW-5</b>              | <b>Distance</b> | <b>Hydraulic Gradient</b> | <b>Hydraulic Conductivity</b> | <b>Assumed Effective Porosity (ne)</b> | <b>Calculated Groundwater Flow Velocity (feet/day)</b> | <b>Calculated Groundwater Flow Velocity (feet/year)</b> |
|                         | <b>h<sub>1</sub> (ft)</b> | <b>h<sub>2</sub> (ft)</b> | <b>Δl (ft)</b>  | <b>Δh/Δl (ft/ft)</b>      | <b>K</b>                      |  |  |   |
| <b>April 17, 2023</b>   | 6.93                      | 4.68                      | 1764            | 0.0013                    | 25.09                         | 0.2                                    | 0.16   | 58.40   |
| <b>October 23, 2023</b> | 7.32                      | 5.05                      | 1764            | 0.0013                    | 25.09                         | 0.2                                    | 0.16   | 58.92   |

| <b>Flow Path B</b>      |                           |                           |                 |                           |                               |  |  |   |
|-------------------------|---------------------------|---------------------------|-----------------|---------------------------|-------------------------------|--|--|---|
|                         | <b>BAW-3</b>              | <b>BAW-5</b>              | <b>Distance</b> | <b>Hydraulic Gradient</b> | <b>Hydraulic Conductivity</b> | <b>Assumed Effective Porosity (ne)</b> | <b>Calculated Groundwater Flow Velocity (feet/day)</b> | <b>Calculated Groundwater Flow Velocity (feet/year)</b> |
|                         | <b>h<sub>1</sub> (ft)</b> | <b>h<sub>2</sub> (ft)</b> | <b>Δl (ft)</b>  | <b>Δh/Δl (ft/ft)</b>      | <b>K</b>                      |  |  |   |
| <b>April 17, 2023</b>   | 5.95                      | 4.68                      | 960             | 0.0013                    | 25.09                         | 0.2                                    | 0.17   | 60.58   |
| <b>October 23, 2023</b> | 6.85                      | 5.05                      | 960             | 0.0019                    | 25.09                         | 0.2                                    | 0.24   | 85.85   |

Notes:

ft=feet

ft/d = feet/day

ft/ft = feet per foot

ft/yr = feet per year

**Table 4.**  
**Relative Percent Difference Calculations**

| <b>1st Semi-Annual Monitoring Event</b> |              |  |               |  |
|---|--------------|--|---------------|--|
| <b>Parameter</b>                        | <b>Units</b> | <b>Monitoring Point Identification</b> |               | <b>Relative Percent Difference (RPD %)</b> |
|   |              | <b>BAW-2A</b>                          | <b>DUP-01</b> |  |
| <b>Chloride</b>                         | mg/L         | 9.6                                    | 9.95          | 3.6  |
| <b>Sulfate</b>                          | mg/L         | 7.32                                   | 8.12          | 10.4                                       |
| <b>Barium</b>                           | mg/L         | 0.0345                                 | 0.0348        | 0.9  |
| <b>Calcium</b>                          | mg/L         | 0.685                                  | 0.679         | 0.9  |
| <b>Cobalt</b>                           | mg/L         | 0.000995                               | 0.000990      | 0.5  |
| <b>TDS</b>                              | mg/L         | 30.0                                   | 33.0          | 9.5  |
| <b>Parameter</b>                        | <b>Units</b> | <b>Monitoring Point Identification</b> |               | <b>Relative Percent Difference (RPD %)</b> |
|   |              | <b>BAW-5</b>                           | <b>DUP-02</b> |  |
| <b>Chloride</b>                         | mg/L         | 11.3                                   | 11.3          | 0.0  |
| <b>Sulfate</b>                          | mg/L         | 47.2                                   | 47.3          | 0.2  |
| <b>Arsenic</b>                          | mg/L         | 0.00683                                | 0.00719       | 5.1  |
| <b>Barium</b>                           | mg/L         | 0.103                                  | 0.1010        | 2.0  |
| <b>Boron</b>                            | mg/L         | 0.831                                  | 0.889         | 6.7  |
| <b>Calcium</b>                          | mg/L         | 26.8                                   | 27.6          | 2.9  |
| <b>Cobalt</b>                           | mg/L         | 0.00275                                | 0.00296       | 7.4  |
| <b>Lithium</b>                          | mg/L         | 0.0564                                 | 0.0580        | 2.8  |
| <b>Molybdenum</b>                       | mg/L         | 0.00651                                | 0.00619       | 5.0  |
| <b>TDS</b>                              | mg/L         | 204                                    | 218.0         | 6.6  |

| <b>2nd Semi-Annual Monitoring Event</b> |              |  |               |  |
|---|--------------|--|---------------|--|
| <b>Parameter</b>                        | <b>Units</b> | <b>Monitoring Point Identification</b> |               | <b>Relative Percent Difference (RPD %)</b> |
|   |              | <b>BAW-2A</b>                          | <b>DUP-01</b> |  |
| <b>Chloride</b>                         | mg/L         | 10.0                                   | 9.88          | 1.2  |
| <b>Sulfate</b>                          | mg/L         | 7.68                                   | 7.37          | 4.1  |
| <b>Barium</b>                           | mg/L         | 0.0244                                 | 0.0249        | 2.0  |
| <b>Calcium</b>                          | mg/L         | 0.498                                  | 0.504         | 1.2  |
| <b>Cobalt</b>                           | mg/L         | 0.000565                               | 0.000610      | 7.7  |
| <b>Lithium</b>                          | mg/L         | 0.00200                                | 0.00201       | 0.5  |
| <b>TDS</b>                              | mg/L         | 35.0                                   | 31.0          | 12.1                                       |
| <b>Parameter</b>                        | <b>Units</b> | <b>Monitoring Point Identification</b> |               | <b>Relative Percent Difference (RPD %)</b> |
|   |              | <b>BAW-3</b>                           | <b>DUP-02</b> |  |
| <b>Chloride</b>                         | mg/L         | 5.50                                   | 5.41          | 1.6  |
| <b>Fluoride</b>                         | mg/L         | 0.0260                                 | 0.0306        | 16.3                                       |
| <b>Sulfate</b>                          | mg/L         | 8.72                                   | 8.56          | 1.9  |
| <b>Barium</b>                           | mg/L         | 0.0427                                 | 0.0420        | 1.7  |
| <b>Calcium</b>                          | mg/L         | 0.875                                  | 0.853         | 2.5  |
| <b>Cobalt</b>                           | mg/L         | 0.00920                                | 0.00888       | 3.5  |
| <b>TDS</b>                              | mg/L         | 19.0                                   | 23.0          | 19.0                                       |

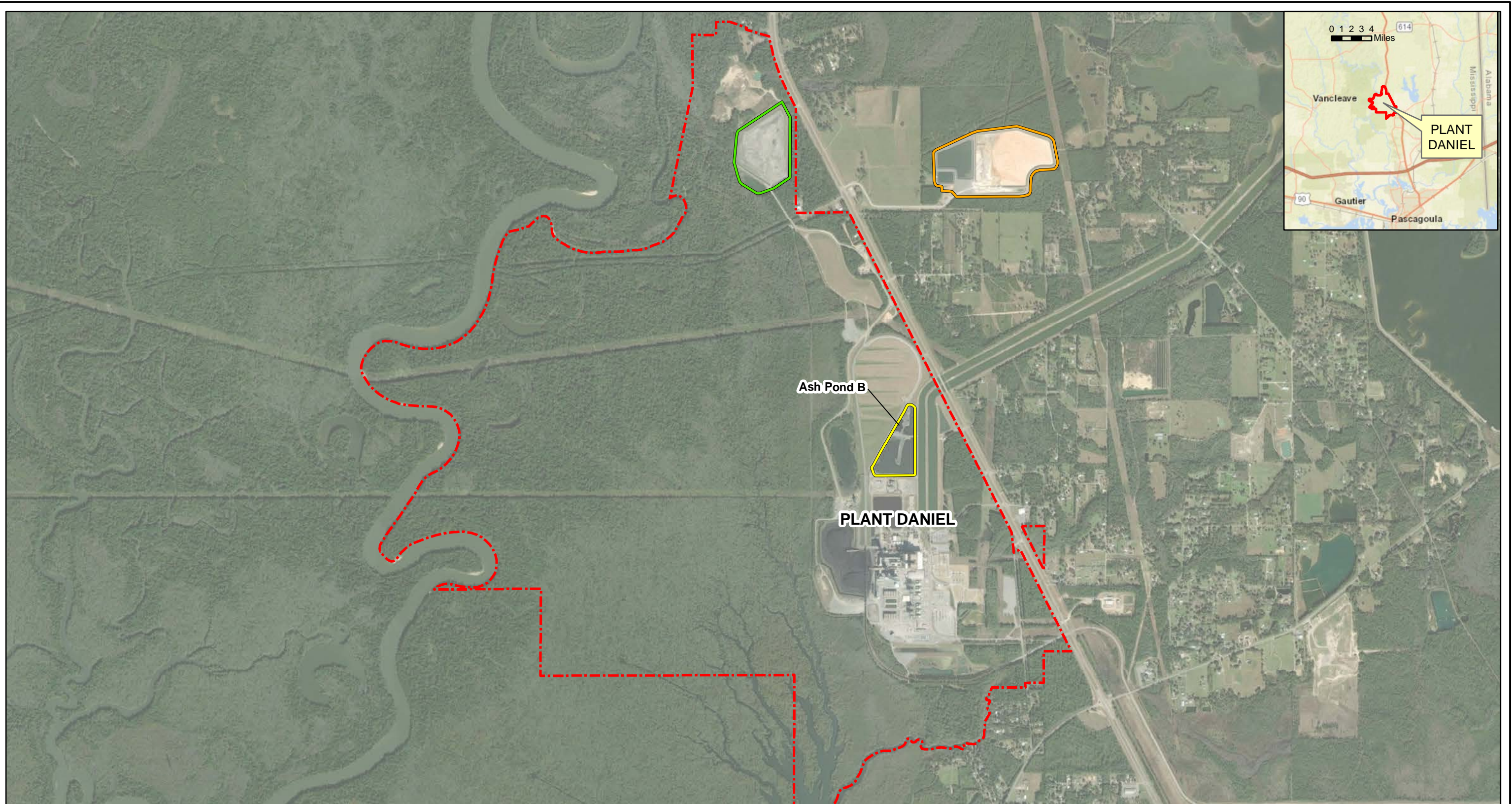
**Table 5.**  
**Summary of Background Levels and Groundwater Protection Standards**

| <b>Analyte</b>          | <b>Units</b> | <b>Background</b> | <b>Rule-Identified GWPS</b> | <b>GWPS</b> |
|-------------------------|--------------|-------------------|-----------------------------|-------------|
| Antimony                | mg/L         | 0.002             | 0.006                       | 0.006       |
| Arsenic                 | mg/L         | 0.001             | 0.01                        | 0.01        |
| Barium                  | mg/L         | 0.051             | 2                           | 2           |
| Beryllium               | mg/L         | 0.001             | 0.004                       | 0.004       |
| Cadmium                 | mg/L         | 0.001             | 0.005                       | 0.005       |
| Chromium                | mg/L         | 0.0029            | 0.1                         | 0.1         |
| Cobalt                  | mg/L         | 0.002 / 0.0017    | 0.006                       | 0.006       |
| Combined Radium-226/228 | pCi/L        | 2.5               | 5                           | 5           |
| Fluoride                | mg/L         | 0.1               | 4                           | 4           |
| Lead                    | mg/L         | 0.001             | 0.015                       | 0.015       |
| Lithium                 | mg/L         | 0.0051            | 0.04                        | 0.04        |
| Mercury                 | mg/L         | 0.0002            | 0.002                       | 0.002       |
| Molybdenum              | mg/L         | 0.005             | 0.1                         | 0.1         |
| Selenium                | mg/L         | 0.005             | 0.05                        | 0.05        |
| Thallium                | mg/L         | 0.001             | 0.002                       | 0.002       |

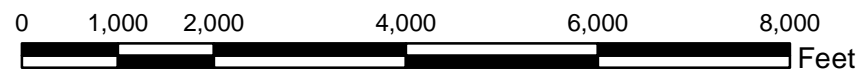
Notes:

1. Background concentration for cobalt was updated from 0.002 mg/L in the first semi-annual statistical analysis to 0.0017 mg/L in the second semi-annual statistical analysis
2. If background is less than the rule-identified GWPS, the rule-identified GWPS were used for statistical analysis.

# Figures



- Legend**
- North Ash Management Unit (NAMU) Boundary
  - Gypsum Storage Area (GSA) Boundary
  - Ash Pond B Boundary
  - Property Boundary (Approximate)



SCALE 1:24000

DATE 12/21/2023

DRAWN BY KAR

CHECKED BY RFS

DRAWING TITLE

**SITE LOCATION MAP  
PLANT DANIEL ASH POND B**

FIGURE NO

**FIGURE 1**






- Legend**
- Monitoring Well Location
  - Ash Pond B Boundary
  - Property Boundary (Approximate)

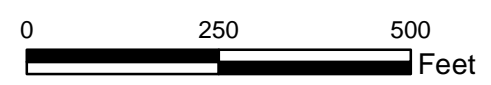


|            |            |
|------------|------------|
| SCALE      | 1:3000     |
| DATE       | 12/21/2023 |
| DRAWN BY   | KAR        |
| CHECKED BY | LMP        |

|  |   |
|--|---|
| DRAWING TITLE                                |   |
| WELL LOCATION MAP<br>PLANT DANIEL ASH POND B |   |
| FIGURE NO                                    |  |
| <b>FIGURE 2</b>                              |   |



| Legend               |  |
|----------------------|--|
|                      | Monitoring Well Location                       |
|                      | Ash Pond B Boundary                            |
|                      | Estimated Potentiometric Contour (ft NAVD88)   |
|                      | Property Boundary (Approximate)                |
|                      | Approximate Direction of Groundwater Flow      |
| <b>BAW-1</b><br>6.93 | Well Name<br>Groundwater Elevation (ft NAVD88) |







Notes:  
1. ft NAVD88 indicates feet relative to the North American Vertical Datum of 1988.

|            |            |
|------------|------------|
| SCALE      | 1:3000     |
| DATE       | 12/26/2023 |
| DRAWN BY   | KAR        |
| CHECKED BY | RFS        |

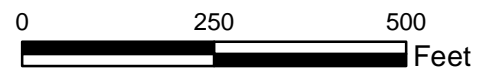
|   |                 |
|---|-----------------|
| DRAWING TITLE   |                 |
| GROUNDWATER ELEVATIONS MAP<br>APRIL 17, 2023<br>PLANT DANIEL ASH POND B |                 |
| FIGURE NO   | <b>FIGURE 3</b> |
| Southern Company  |                 |



**Legend**

-  Monitoring Well Location
-  Ash Pond B Boundary
-  Estimated Potentiometric Contour (ft NAVD88)
-  Approximate Direction of Groundwater Flow

**BAW-1** Well Name  
 7.32 Groundwater Elevation (ft NAVD88)



Notes:  
 1. ft NAVD88 indicates feet relative to the North American Vertical Datum of 1988.

SCALE 1:3000

DATE 12/28/2023

DRAWN BY KAR

CHECKED BY RFS

DRAWING TITLE

GROUNDWATER ELEVATIONS MAP  
 OCTOBER 23, 2023  
 PLANT DANIEL ASH POND B

FIGURE NO

**FIGURE 4**





# Appendix A

**1st**  
**Semi-Annual**  
**Monitoring Event**



# ANALYTICAL REPORT

## PREPARED FOR

Attn: Robert (Trey) Singleton  
Southern Company  
3535 Colonnade Parkway  
Bin S 530 EC  
Birmingham, Alabama 35243

Generated 5/10/2023 3:40:53 PM Revision 1

## JOB DESCRIPTION

Plant Daniel Ash Pond B

## JOB NUMBER

180-155616-1

# Eurofins Pittsburgh

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

PA Lab ID: 02-00416

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Pittsburgh Project Manager.

## Authorization



Authorized for release by  
Shali Brown, Project Manager II  
[Shali.Brown@et.eurofinsus.com](mailto:Shali.Brown@et.eurofinsus.com)  
(615)301-5031

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5/10/2023 3:40:53 PM  
Revision 1



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# Case Narrative

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-1

---

**Job ID: 180-155616-1**

---

**Laboratory: Eurofins Pittsburgh**

---

**Narrative**

**Job Narrative  
180-155616-1**

051023 Revid report to include field pH data at client request. This report replaces the report previously issued on 050423

**Receipt**

The samples were received on 4/26/2023 10:39 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.5°C, 4.2°C and 4.7°C

**HPLC/IC**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**Metals**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**General Chemistry**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



# Definitions/Glossary

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-1

## Qualifiers

### HPLC/IC

| Qualifier | Qualifier Description  |
|-----------|--|
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### Metals

| Qualifier | Qualifier Description  |
|-----------|--|
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|---|
| ▫              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery  |
| CFL            | Contains Free Liquid  |
| CFU            | Colony Forming Unit   |
| CNF            | Contains No Free Liquid   |
| DER            | Duplicate Error Ratio (normalized absolute difference)  |
| Dil Fac        | Dilution Factor   |
| DL             | Detection Limit (DoD/DOE)   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)   |
| EDL            | Estimated Detection Limit (Dioxin)  |
| LOD            | Limit of Detection (DoD/DOE)  |
| LOQ            | Limit of Quantitation (DoD/DOE)   |
| MCL            | EPA recommended "Maximum Contaminant Level"   |
| MDA            | Minimum Detectable Activity (Radiochemistry)  |
| MDC            | Minimum Detectable Concentration (Radiochemistry)   |
| MDL            | Method Detection Limit  |
| ML             | Minimum Level (Dioxin)  |
| MPN            | Most Probable Number  |
| MQL            | Method Quantitation Limit   |
| NC             | Not Calculated  |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)  |
| NEG            | Negative / Absent   |
| POS            | Positive / Present  |
| PQL            | Practical Quantitation Limit  |
| PRES           | Presumptive   |
| QC             | Quality Control   |
| RER            | Relative Error Ratio (Radiochemistry)   |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)   |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)   |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)   |
| TNTC           | Too Numerous To Count   |

# Accreditation/Certification Summary

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-1

## Laboratory: Eurofins Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority              | Program             | Identification Number | Expiration Date |
|------------------------|---------------------|-----------------------|-----------------|
| Arkansas DEQ           | State               | 19-033-0              | 05-03-23        |
| California             | State               | 2891                  | 04-30-23        |
| Connecticut            | State               | PH-0688               | 05-03-23        |
| Florida                | NELAP               | E871008               | 05-03-23        |
| Georgia                | State               | PA 02-00416           | 04-30-23        |
| Illinois               | NELAP               | 004375                | 05-03-23        |
| Kansas                 | NELAP               | E-10350               | 05-03-23        |
| Kentucky (UST)         | State               | 162013                | 04-30-23        |
| Kentucky (WW)          | State               | KY98043               | 05-03-23        |
| Louisiana              | NELAP               | 04041                 | 06-30-22 *      |
| Louisiana (All)        | NELAP               | 04041                 | 05-03-23        |
| Maine                  | State               | PA00164               | 03-06-24        |
| Minnesota              | NELAP               | 042-999-482           | 05-03-23        |
| New Hampshire          | NELAP               | 2030                  | 05-03-23        |
| New Jersey             | NELAP               | PA005                 | 05-03-23        |
| New York               | NELAP               | 11182                 | 05-03-23        |
| North Carolina (WW/SW) | State               | 434                   | 05-03-23        |
| North Dakota           | State               | R-227                 | 04-30-23        |
| Oregon                 | NELAP               | PA-2151               | 02-06-24        |
| Pennsylvania           | NELAP               | 02-00416              | 05-03-23        |
| Rhode Island           | State               | LAO00362              | 12-31-22 *      |
| South Carolina         | State               | 89014                 | 04-30-23        |
| Texas                  | NELAP               | T104704528            | 05-03-23        |
| US Fish & Wildlife     | US Federal Programs | 058448                | 03-31-24        |
| USDA                   | US Federal Programs | P330-16-00211         | 06-21-24        |
| Utah                   | NELAP               | PA001462019-8         | 05-03-23        |
| Virginia               | NELAP               | 10043                 | 05-03-23        |
| West Virginia DEP      | State               | 142                   | 05-03-23        |
| Wisconsin              | State               | 998027800             | 08-31-23        |

## Laboratory: Eurofins Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority       | Program               | Identification Number | Expiration Date |
|-----------------|-----------------------|-----------------------|-----------------|
|                 | AFCEE                 | SAVLAB                |                 |
| Alabama         | State                 | 41450                 | 06-30-23        |
| ANAB            | Dept. of Defense ELAP | L2463                 | 09-22-24        |
| Arkansas DEQ    | State                 | 19-015-0              | 02-01-24        |
| California      | State                 | 2939                  | 06-30-23        |
| Florida         | NELAP                 | E87052                | 06-30-23        |
| Georgia         | State                 | E87052                | 06-30-23        |
| Georgia (DW)    | State                 | 803                   | 06-30-23        |
| Guam            | State                 | 19-007R               | 04-17-24        |
| Hawaii          | State                 | <cert No.>            | 06-30-23        |
| Illinois        | NELAP                 | 200022                | 11-30-23        |
| Indiana         | State                 | C-GA-02               | 06-30-23        |
| Iowa            | State                 | 353                   | 07-01-23        |
| Kentucky (UST)  | State                 | NA                    | 06-30-23        |
| Louisiana       | NELAP                 | 30690                 | 06-30-23        |
| Louisiana (All) | NELAP                 | 30690                 | 06-30-23        |

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Pittsburgh



# Accreditation/Certification Summary

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-1

## Laboratory: Eurofins Savannah (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority              | Program             | Identification Number | Expiration Date |
|------------------------|---------------------|-----------------------|-----------------|
| Louisiana (DW)         | State               | LA009                 | 12-31-23        |
| Maine                  | State               | GA00006               | 09-25-24        |
| Maryland               | State               | 250                   | 12-31-23        |
| Massachusetts          | State               | M-GA006               | 06-30-23        |
| Michigan               | State               | 9925                  | 06-30-23        |
| Mississippi            | State               | <cert No.>            | 06-30-23        |
| Nebraska               | State               | NE-OS-7-04            | 06-30-23        |
| New Jersey             | NELAP               | GA769                 | 06-30-23        |
| New Mexico             | State               | GA00006               | 06-30-23        |
| North Carolina (DW)    | State               | 13701                 | 07-31-23        |
| North Carolina (WW/SW) | State               | 269                   | 12-31-23        |
| Pennsylvania           | NELAP               | 68-00474              | 06-30-23        |
| Puerto Rico            | State               | GA00006               | 01-01-24        |
| South Carolina         | State               | 98001                 | 06-30-23        |
| Tennessee              | State               | TN02961               | 06-30-23        |
| Texas                  | NELAP               | T1047004185-19-14     | 11-30-23        |
| Texas                  | TCEQ Water Supply   | T104704185            | 06-30-23        |
| USDA                   | US Federal Programs | P330-18-00313         | 09-03-24        |
| Virginia               | NELAP               | 460161                | 06-14-23        |
| Wyoming                | State               | 8TMS-L                | 06-30-23        |

# Sample Summary

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 180-155616-1  | BAW-1            | Water  | 04/20/23 13:26 | 04/26/23 10:39 |
| 180-155616-2  | BAW-2A           | Water  | 04/20/23 16:55 | 04/26/23 10:39 |
| 180-155616-3  | BAW-3            | Water  | 04/20/23 18:08 | 04/26/23 10:39 |
| 180-155616-4  | BAW-4            | Water  | 04/21/23 09:50 | 04/26/23 10:39 |
| 180-155616-5  | BAW-5            | Water  | 04/21/23 11:15 | 04/26/23 10:39 |
| 180-155616-6  | BAW-7            | Water  | 04/21/23 18:28 | 04/26/23 10:39 |
| 180-155616-7  | BAW-8            | Water  | 04/21/23 14:23 | 04/26/23 10:39 |
| 180-155616-8  | BAW-9            | Water  | 04/21/23 13:00 | 04/26/23 10:39 |
| 180-155616-9  | DUP-01           | Water  | 04/20/23 15:55 | 04/26/23 10:39 |
| 180-155616-10 | DUP-02           | Water  | 04/21/23 10:15 | 04/26/23 10:39 |
| 180-155616-11 | FB-01            | Water  | 04/21/23 12:08 | 04/26/23 10:39 |
| 180-155616-12 | EB-01            | Water  | 04/21/23 12:14 | 04/26/23 10:39 |

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# Method Summary

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-1

| Method         | Method Description                                 | Protocol | Laboratory |
|----------------|--|----------|------------|
| EPA 9056A      | Anions, Ion Chromatography                         | SW846    | EET PIT    |
| 6020B          | Metals (ICP/MS)                                    | SW846    | EET SAV    |
| 7470A          | Mercury (CVAA)                                     | SW846    | EET SAV    |
| SM 2540C       | Solids, Total Dissolved (TDS)                      | SM       | EET PIT    |
| Field Sampling | Field Sampling                                     | EPA      | EET PIT    |
| 3005A          | Preparation, Total Recoverable or Dissolved Metals | SW846    | EET SAV    |
| 7470A          | Preparation, Mercury                               | SW846    | EET SAV    |

#### Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

# Lab Chronicle

Client: Southern Company  
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-1

## Client Sample ID: BAW-1

Date Collected: 04/20/23 13:26

Date Received: 04/26/23 10:39

## Lab Sample ID: 180-155616-1

Matrix: Water

| Prep Type                  | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|----------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA                   | Analysis   | EPA 9056A      |     | 1          | 1 mL           | 1 mL         | 433579       | 04/27/23 18:19       | M1D     | EET PIT |
| Instrument ID: INTEGRION   |            |                |     |            |                |              |              |                      |         |         |
| Total Recoverable          | Prep       | 3005A          |     |            | 25 mL          | 125 mL       | 776480       | 05/02/23 12:13       | RR      | EET SAV |
| Total Recoverable          | Analysis   | 6020B          |     | 1          |                |              | 776852       | 05/03/23 20:19       | BWR     | EET SAV |
| Instrument ID: ICPMSC      |            |                |     |            |                |              |              |                      |         |         |
| Total/NA                   | Prep       | 7470A          |     |            | 50 mL          | 50 mL        | 776266       | 05/01/23 14:25       | JKL     | EET SAV |
| Total/NA                   | Analysis   | 7470A          |     | 1          |                |              | 776644       | 05/02/23 11:46       | JKL     | EET SAV |
| Instrument ID: QuickTrace2 |            |                |     |            |                |              |              |                      |         |         |
| Total/NA                   | Analysis   | SM 2540C       |     | 1          | 100 mL         | 100 mL       | 433646       | 04/27/23 19:31       | LWM     | EET PIT |
| Instrument ID: NOEQUIP     |            |                |     |            |                |              |              |                      |         |         |
| Total/NA                   | Analysis   | Field Sampling |     | 1          |                |              | 434791       | 04/20/23 14:26       | FDS     | EET PIT |
| Instrument ID: NOEQUIP     |            |                |     |            |                |              |              |                      |         |         |

## Client Sample ID: BAW-2A

Date Collected: 04/20/23 16:55

Date Received: 04/26/23 10:39

## Lab Sample ID: 180-155616-2

Matrix: Water

| Prep Type                  | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|----------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA                   | Analysis   | EPA 9056A      |     | 1          | 1 mL           | 1 mL         | 433579       | 04/27/23 15:32       | M1D     | EET PIT |
| Instrument ID: INTEGRION   |            |                |     |            |                |              |              |                      |         |         |
| Total Recoverable          | Prep       | 3005A          |     |            | 25 mL          | 125 mL       | 776480       | 05/02/23 12:13       | RR      | EET SAV |
| Total Recoverable          | Analysis   | 6020B          |     | 1          |                |              | 776852       | 05/03/23 20:27       | BWR     | EET SAV |
| Instrument ID: ICPMSC      |            |                |     |            |                |              |              |                      |         |         |
| Total/NA                   | Prep       | 7470A          |     |            | 50 mL          | 50 mL        | 776266       | 05/01/23 14:25       | JKL     | EET SAV |
| Total/NA                   | Analysis   | 7470A          |     | 1          |                |              | 776644       | 05/02/23 11:48       | JKL     | EET SAV |
| Instrument ID: QuickTrace2 |            |                |     |            |                |              |              |                      |         |         |
| Total/NA                   | Analysis   | SM 2540C       |     | 1          | 100 mL         | 100 mL       | 433646       | 04/27/23 19:31       | LWM     | EET PIT |
| Instrument ID: NOEQUIP     |            |                |     |            |                |              |              |                      |         |         |
| Total/NA                   | Analysis   | Field Sampling |     | 1          |                |              | 434791       | 04/20/23 17:55       | FDS     | EET PIT |
| Instrument ID: NOEQUIP     |            |                |     |            |                |              |              |                      |         |         |

## Client Sample ID: BAW-3

Date Collected: 04/20/23 18:08

Date Received: 04/26/23 10:39

## Lab Sample ID: 180-155616-3

Matrix: Water

| Prep Type                  | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|----------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA                   | Analysis   | EPA 9056A    |     | 1          | 1 mL           | 1 mL         | 433579       | 04/27/23 15:51       | M1D     | EET PIT |
| Instrument ID: INTEGRION   |            |              |     |            |                |              |              |                      |         |         |
| Total Recoverable          | Prep       | 3005A        |     |            | 25 mL          | 125 mL       | 776480       | 05/02/23 12:13       | RR      | EET SAV |
| Total Recoverable          | Analysis   | 6020B        |     | 1          |                |              | 776852       | 05/03/23 21:11       | BWR     | EET SAV |
| Instrument ID: ICPMSC      |            |              |     |            |                |              |              |                      |         |         |
| Total/NA                   | Prep       | 7470A        |     |            | 50 mL          | 50 mL        | 776266       | 05/01/23 14:25       | JKL     | EET SAV |
| Total/NA                   | Analysis   | 7470A        |     | 1          |                |              | 776644       | 05/02/23 11:53       | JKL     | EET SAV |
| Instrument ID: QuickTrace2 |            |              |     |            |                |              |              |                      |         |         |

Eurofins Pittsburgh

# Lab Chronicle

Client: Southern Company  
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-1

**Client Sample ID: BAW-3**  
**Date Collected: 04/20/23 18:08**  
**Date Received: 04/26/23 10:39**

**Lab Sample ID: 180-155616-3**  
**Matrix: Water**

| Prep Type | Batch Type | Batch Method                             | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | SM 2540C                                 |     | 1          | 100 mL         | 100 mL       | 433646       | 04/27/23 19:31       | LWM     | EET PIT |
| Total/NA  | Analysis   | Field Sampling<br>Instrument ID: NOEQUIP |     | 1          |                |              | 434791       | 04/20/23 19:08       | FDS     | EET PIT |

**Client Sample ID: BAW-4**  
**Date Collected: 04/21/23 09:50**  
**Date Received: 04/26/23 10:39**

**Lab Sample ID: 180-155616-4**  
**Matrix: Water**

| Prep Type         | Batch Type | Batch Method                             | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | EPA 9056A<br>Instrument ID: INTEGRION    |     | 1          | 1 mL           | 1 mL         | 433579       | 04/27/23 16:46       | M1D     | EET PIT |
| Total Recoverable | Prep       | 3005A                                    |     |            | 25 mL          | 125 mL       | 776480       | 05/02/23 12:13       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B<br>Instrument ID: ICPMSC           |     | 1          |                |              | 776852       | 05/03/23 21:07       | BWR     | EET SAV |
| Total/NA          | Prep       | 7470A                                    |     |            | 50 mL          | 50 mL        | 776266       | 05/01/23 14:25       | JKL     | EET SAV |
| Total/NA          | Analysis   | 7470A<br>Instrument ID: QuickTrace2      |     | 1          |                |              | 776644       | 05/02/23 11:54       | JKL     | EET SAV |
| Total/NA          | Analysis   | SM 2540C<br>Instrument ID: NOEQUIP       |     | 1          | 100 mL         | 100 mL       | 433646       | 04/27/23 19:31       | LWM     | EET PIT |
| Total/NA          | Analysis   | Field Sampling<br>Instrument ID: NOEQUIP |     | 1          |                |              | 434791       | 04/21/23 10:50       | FDS     | EET PIT |

**Client Sample ID: BAW-5**  
**Date Collected: 04/21/23 11:15**  
**Date Received: 04/26/23 10:39**

**Lab Sample ID: 180-155616-5**  
**Matrix: Water**

| Prep Type         | Batch Type | Batch Method                             | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | EPA 9056A<br>Instrument ID: INTEGRION    |     | 1          | 1 mL           | 1 mL         | 433579       | 04/27/23 17:05       | M1D     | EET PIT |
| Total Recoverable | Prep       | 3005A                                    |     |            | 25 mL          | 125 mL       | 776480       | 05/02/23 12:13       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B<br>Instrument ID: ICPMSC           |     | 1          |                |              | 776852       | 05/03/23 20:59       | BWR     | EET SAV |
| Total/NA          | Prep       | 7470A                                    |     |            | 50 mL          | 50 mL        | 776266       | 05/01/23 14:25       | JKL     | EET SAV |
| Total/NA          | Analysis   | 7470A<br>Instrument ID: QuickTrace2      |     | 1          |                |              | 776644       | 05/02/23 11:56       | JKL     | EET SAV |
| Total/NA          | Analysis   | SM 2540C<br>Instrument ID: NOEQUIP       |     | 1          | 100 mL         | 100 mL       | 433646       | 04/27/23 19:31       | LWM     | EET PIT |
| Total/NA          | Analysis   | Field Sampling<br>Instrument ID: NOEQUIP |     | 1          |                |              | 434791       | 04/21/23 12:15       | FDS     | EET PIT |

# Lab Chronicle

Client: Southern Company  
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-1

## Client Sample ID: BAW-7

Date Collected: 04/21/23 18:28

Date Received: 04/26/23 10:39

## Lab Sample ID: 180-155616-6

Matrix: Water

| Prep Type                  | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|----------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA                   | Analysis   | EPA 9056A      |     | 1          | 1 mL           | 1 mL         | 433579       | 04/27/23 17:23       | M1D     | EET PIT |
| Instrument ID: INTEGRION   |            |                |     |            |                |              |              |                      |         |         |
| Total Recoverable          | Prep       | 3005A          |     |            | 25 mL          | 125 mL       | 776480       | 05/02/23 12:13       | RR      | EET SAV |
| Total Recoverable          | Analysis   | 6020B          |     | 1          |                |              | 776852       | 05/03/23 21:03       | BWR     | EET SAV |
| Instrument ID: ICPMSC      |            |                |     |            |                |              |              |                      |         |         |
| Total/NA                   | Prep       | 7470A          |     |            | 50 mL          | 50 mL        | 776266       | 05/01/23 14:25       | JKL     | EET SAV |
| Total/NA                   | Analysis   | 7470A          |     | 1          |                |              | 776644       | 05/02/23 11:57       | JKL     | EET SAV |
| Instrument ID: QuickTrace2 |            |                |     |            |                |              |              |                      |         |         |
| Total/NA                   | Analysis   | SM 2540C       |     | 1          | 100 mL         | 100 mL       | 433646       | 04/27/23 19:31       | LWM     | EET PIT |
| Instrument ID: NOEQUIP     |            |                |     |            |                |              |              |                      |         |         |
| Total/NA                   | Analysis   | Field Sampling |     | 1          |                |              | 434791       | 04/21/23 19:28       | FDS     | EET PIT |
| Instrument ID: NOEQUIP     |            |                |     |            |                |              |              |                      |         |         |

## Client Sample ID: BAW-8

Date Collected: 04/21/23 14:23

Date Received: 04/26/23 10:39

## Lab Sample ID: 180-155616-7

Matrix: Water

| Prep Type                  | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|----------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA                   | Analysis   | EPA 9056A      |     | 1          | 1 mL           | 1 mL         | 433579       | 04/27/23 17:42       | M1D     | EET PIT |
| Instrument ID: INTEGRION   |            |                |     |            |                |              |              |                      |         |         |
| Total Recoverable          | Prep       | 3005A          |     |            | 25 mL          | 125 mL       | 776480       | 05/02/23 12:13       | RR      | EET SAV |
| Total Recoverable          | Analysis   | 6020B          |     | 1          |                |              | 776852       | 05/03/23 20:31       | BWR     | EET SAV |
| Instrument ID: ICPMSC      |            |                |     |            |                |              |              |                      |         |         |
| Total/NA                   | Prep       | 7470A          |     |            | 50 mL          | 50 mL        | 776267       | 05/01/23 14:41       | JKL     | EET SAV |
| Total/NA                   | Analysis   | 7470A          |     | 1          |                |              | 776644       | 05/02/23 12:02       | JKL     | EET SAV |
| Instrument ID: QuickTrace2 |            |                |     |            |                |              |              |                      |         |         |
| Total/NA                   | Analysis   | SM 2540C       |     | 1          | 100 mL         | 100 mL       | 433646       | 04/27/23 19:31       | LWM     | EET PIT |
| Instrument ID: NOEQUIP     |            |                |     |            |                |              |              |                      |         |         |
| Total/NA                   | Analysis   | Field Sampling |     | 1          |                |              | 434791       | 04/21/23 15:23       | FDS     | EET PIT |
| Instrument ID: NOEQUIP     |            |                |     |            |                |              |              |                      |         |         |

## Client Sample ID: BAW-9

Date Collected: 04/21/23 13:00

Date Received: 04/26/23 10:39

## Lab Sample ID: 180-155616-8

Matrix: Water

| Prep Type                  | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|----------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA                   | Analysis   | EPA 9056A    |     | 1          | 1 mL           | 1 mL         | 433579       | 04/27/23 18:00       | M1D     | EET PIT |
| Instrument ID: INTEGRION   |            |              |     |            |                |              |              |                      |         |         |
| Total Recoverable          | Prep       | 3005A        |     |            | 25 mL          | 125 mL       | 776480       | 05/02/23 12:13       | RR      | EET SAV |
| Total Recoverable          | Analysis   | 6020B        |     | 1          |                |              | 776852       | 05/03/23 20:35       | BWR     | EET SAV |
| Instrument ID: ICPMSC      |            |              |     |            |                |              |              |                      |         |         |
| Total/NA                   | Prep       | 7470A        |     |            | 50 mL          | 50 mL        | 776267       | 05/01/23 14:41       | JKL     | EET SAV |
| Total/NA                   | Analysis   | 7470A        |     | 1          |                |              | 776644       | 05/02/23 12:07       | JKL     | EET SAV |
| Instrument ID: QuickTrace2 |            |              |     |            |                |              |              |                      |         |         |

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# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-1

## Client Sample ID: BAW-9

Lab Sample ID: 180-155616-8

Date Collected: 04/21/23 13:00

Matrix: Water

Date Received: 04/26/23 10:39

| Prep Type              | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA               | Analysis   | SM 2540C       |     | 1          | 100 mL         | 100 mL       | 433646       | 04/27/23 19:31       | LWM     | EET PIT |
| Total/NA               | Analysis   | Field Sampling |     | 1          |                |              | 434791       | 04/21/23 14:00       | FDS     | EET PIT |
| Instrument ID: NOEQUIP |            |                |     |            |                |              |              |                      |         |         |

## Client Sample ID: DUP-01

Lab Sample ID: 180-155616-9

Date Collected: 04/20/23 15:55

Matrix: Water

Date Received: 04/26/23 10:39

| Prep Type                  | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|----------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA                   | Analysis   | EPA 9056A    |     | 1          | 1 mL           | 1 mL         | 433579       | 04/27/23 19:14       | M1D     | EET PIT |
| Instrument ID: INTEGRION   |            |              |     |            |                |              |              |                      |         |         |
| Total Recoverable          | Prep       | 3005A        |     |            | 25 mL          | 125 mL       | 776480       | 05/02/23 12:13       | RR      | EET SAV |
| Total Recoverable          | Analysis   | 6020B        |     | 1          |                |              | 776852       | 05/03/23 20:39       | BWR     | EET SAV |
| Instrument ID: ICPMSC      |            |              |     |            |                |              |              |                      |         |         |
| Total/NA                   | Prep       | 7470A        |     |            | 50 mL          | 50 mL        | 776267       | 05/01/23 14:41       | JKL     | EET SAV |
| Total/NA                   | Analysis   | 7470A        |     | 1          |                |              | 776644       | 05/02/23 12:11       | JKL     | EET SAV |
| Instrument ID: QuickTrace2 |            |              |     |            |                |              |              |                      |         |         |
| Total/NA                   | Analysis   | SM 2540C     |     | 1          | 100 mL         | 100 mL       | 433646       | 04/27/23 19:31       | LWM     | EET PIT |
| Instrument ID: NOEQUIP     |            |              |     |            |                |              |              |                      |         |         |

## Client Sample ID: DUP-02

Lab Sample ID: 180-155616-10

Date Collected: 04/21/23 10:15

Matrix: Water

Date Received: 04/26/23 10:39

| Prep Type                  | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|----------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA                   | Analysis   | EPA 9056A    |     | 1          | 1 mL           | 1 mL         | 433579       | 04/27/23 19:32       | M1D     | EET PIT |
| Instrument ID: INTEGRION   |            |              |     |            |                |              |              |                      |         |         |
| Total Recoverable          | Prep       | 3005A        |     |            | 25 mL          | 125 mL       | 776480       | 05/02/23 12:13       | RR      | EET SAV |
| Total Recoverable          | Analysis   | 6020B        |     | 1          |                |              | 776852       | 05/03/23 20:23       | BWR     | EET SAV |
| Instrument ID: ICPMSC      |            |              |     |            |                |              |              |                      |         |         |
| Total/NA                   | Prep       | 7470A        |     |            | 50 mL          | 50 mL        | 776267       | 05/01/23 14:41       | JKL     | EET SAV |
| Total/NA                   | Analysis   | 7470A        |     | 1          |                |              | 776644       | 05/02/23 12:13       | JKL     | EET SAV |
| Instrument ID: QuickTrace2 |            |              |     |            |                |              |              |                      |         |         |
| Total/NA                   | Analysis   | SM 2540C     |     | 1          | 100 mL         | 100 mL       | 433646       | 04/27/23 19:31       | LWM     | EET PIT |
| Instrument ID: NOEQUIP     |            |              |     |            |                |              |              |                      |         |         |

## Client Sample ID: FB-01

Lab Sample ID: 180-155616-11

Date Collected: 04/21/23 12:08

Matrix: Water

Date Received: 04/26/23 10:39

| Prep Type                | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA                 | Analysis   | EPA 9056A    |     | 1          | 1 mL           | 1 mL         | 433579       | 04/27/23 20:28       | M1D     | EET PIT |
| Instrument ID: INTEGRION |            |              |     |            |                |              |              |                      |         |         |
| Total Recoverable        | Prep       | 3005A        |     |            | 25 mL          | 125 mL       | 776480       | 05/02/23 12:13       | RR      | EET SAV |
| Total Recoverable        | Analysis   | 6020B        |     | 1          |                |              | 776852       | 05/03/23 20:43       | BWR     | EET SAV |
| Instrument ID: ICPMSC    |            |              |     |            |                |              |              |                      |         |         |

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# Lab Chronicle

Client: Southern Company  
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-1

**Client Sample ID: FB-01**

**Lab Sample ID: 180-155616-11**

Date Collected: 04/21/23 12:08

Matrix: Water

Date Received: 04/26/23 10:39

| Prep Type                  | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|----------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA                   | Prep       | 7470A        |     |            | 50 mL          | 50 mL        | 776267       | 05/01/23 14:41       | JKL     | EET SAV |
| Total/NA                   | Analysis   | 7470A        |     | 1          |                |              | 776644       | 05/02/23 12:14       | JKL     | EET SAV |
| Instrument ID: QuickTrace2 |            |              |     |            |                |              |              |                      |         |         |
| Total/NA                   | Analysis   | SM 2540C     |     | 1          | 100 mL         | 100 mL       | 433646       | 04/27/23 19:31       | LWM     | EET PIT |
| Instrument ID: NOEQUIP     |            |              |     |            |                |              |              |                      |         |         |

**Client Sample ID: EB-01**

**Lab Sample ID: 180-155616-12**

Date Collected: 04/21/23 12:14

Matrix: Water

Date Received: 04/26/23 10:39

| Prep Type                  | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|----------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA                   | Analysis   | EPA 9056A    |     | 1          | 1 mL           | 1 mL         | 433579       | 04/27/23 20:46       | M1D     | EET PIT |
| Instrument ID: INTEGRION   |            |              |     |            |                |              |              |                      |         |         |
| Total Recoverable          | Prep       | 3005A        |     |            | 25 mL          | 125 mL       | 776480       | 05/02/23 12:13       | RR      | EET SAV |
| Total Recoverable          | Analysis   | 6020B        |     | 1          |                |              | 776852       | 05/03/23 20:47       | BWR     | EET SAV |
| Instrument ID: ICPMSC      |            |              |     |            |                |              |              |                      |         |         |
| Total/NA                   | Prep       | 7470A        |     |            | 50 mL          | 50 mL        | 776267       | 05/01/23 14:41       | JKL     | EET SAV |
| Total/NA                   | Analysis   | 7470A        |     | 1          |                |              | 776644       | 05/02/23 12:16       | JKL     | EET SAV |
| Instrument ID: QuickTrace2 |            |              |     |            |                |              |              |                      |         |         |
| Total/NA                   | Analysis   | SM 2540C     |     | 1          | 100 mL         | 100 mL       | 433646       | 04/27/23 19:31       | LWM     | EET PIT |
| Instrument ID: NOEQUIP     |            |              |     |            |                |              |              |                      |         |         |

**Laboratory References:**

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

**Analyst References:**

Lab: EET PIT

Batch Type: Analysis

FDS = Sampler Field

LWM = Leslie McIntire

M1D = Maureen Donlin

Lab: EET SAV

Batch Type: Prep

JKL = Jon Lawhon

RR = Robert Rancourt

Batch Type: Analysis

BWR = Bryn Robertson

JKL = Jon Lawhon



# Client Sample Results

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-1

**Client Sample ID: BAW-1**

**Lab Sample ID: 180-155616-1**

Date Collected: 04/20/23 13:26

Matrix: Water

Date Received: 04/26/23 10:39

**Method: SW846 EPA 9056A - Anions, Ion Chromatography**

| Analyte  | Result  | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|---------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride | 5.22    |           | 1.00  | 0.713  | mg/L |   |          | 04/27/23 18:19 | 1       |
| Fluoride | <0.0260 |           | 0.100 | 0.0260 | mg/L |   |          | 04/27/23 18:19 | 1       |
| Sulfate  | 2.60    |           | 1.00  | 0.756  | mg/L |   |          | 04/27/23 18:19 | 1       |

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

| Analyte    | Result     | Qualifier | RL       | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Antimony   | <0.000340  |           | 0.00200  | 0.000340  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:19 | 1       |
| Arsenic    | <0.000860  |           | 0.00100  | 0.000860  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:19 | 1       |
| Barium     | 0.0347     |           | 0.0100   | 0.000890  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:19 | 1       |
| Beryllium  | <0.000200  |           | 0.00100  | 0.000200  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:19 | 1       |
| Boron      | <0.0220    |           | 0.0800   | 0.0220    | mg/L |   | 05/02/23 12:13 | 05/03/23 20:19 | 1       |
| Cadmium    | <0.0000780 |           | 0.00100  | 0.0000780 | mg/L |   | 05/02/23 12:13 | 05/03/23 20:19 | 1       |
| Calcium    | 0.996      |           | 0.500    | 0.140     | mg/L |   | 05/02/23 12:13 | 05/03/23 20:19 | 1       |
| Chromium   | <0.00120   |           | 0.00200  | 0.00120   | mg/L |   | 05/02/23 12:13 | 05/03/23 20:19 | 1       |
| Cobalt     | 0.00142    |           | 0.000500 | 0.000220  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:19 | 1       |
| Lead       | <0.000210  |           | 0.00100  | 0.000210  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:19 | 1       |
| Lithium    | <0.00200   |           | 0.00500  | 0.00200   | mg/L |   | 05/02/23 12:13 | 05/03/23 20:19 | 1       |
| Molybdenum | <0.000860  |           | 0.00500  | 0.000860  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:19 | 1       |
| Selenium   | <0.000990  |           | 0.00500  | 0.000990  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:19 | 1       |
| Thallium   | <0.000260  |           | 0.00100  | 0.000260  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:19 | 1       |

**Method: SW846 7470A - Mercury (CVAA)**

| Analyte | Result     | Qualifier | RL       | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Mercury | <0.0000800 |           | 0.000200 | 0.0000800 | mg/L |   | 05/01/23 14:25 | 05/02/23 11:46 | 1       |

**General Chemistry**

| Analyte                           | Result | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | 26.0   |           | 10.0 | 10.0 | mg/L |   |          | 04/27/23 19:31 | 1       |

**Method: EPA Field Sampling - Field Sampling**

| Analyte  | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 4.89   |           |    |     | SU   |   |          | 04/20/23 14:26 | 1       |

**Client Sample ID: BAW-2A**

**Lab Sample ID: 180-155616-2**

Date Collected: 04/20/23 16:55

Matrix: Water

Date Received: 04/26/23 10:39

**Method: SW846 EPA 9056A - Anions, Ion Chromatography**

| Analyte  | Result | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride | 9.60   |           | 1.00  | 0.713  | mg/L |   |          | 04/27/23 15:32 | 1       |
| Fluoride | 0.0278 | J         | 0.100 | 0.0260 | mg/L |   |          | 04/27/23 15:32 | 1       |
| Sulfate  | 7.32   |           | 1.00  | 0.756  | mg/L |   |          | 04/27/23 15:32 | 1       |

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

| Analyte   | Result     | Qualifier | RL      | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|------------|-----------|---------|-----------|------|---|----------------|----------------|---------|
| Antimony  | <0.000340  |           | 0.00200 | 0.000340  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:27 | 1       |
| Arsenic   | <0.000860  |           | 0.00100 | 0.000860  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:27 | 1       |
| Barium    | 0.0345     |           | 0.0100  | 0.000890  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:27 | 1       |
| Beryllium | <0.000200  |           | 0.00100 | 0.000200  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:27 | 1       |
| Boron     | 0.0711     | J         | 0.0800  | 0.0220    | mg/L |   | 05/02/23 12:13 | 05/03/23 20:27 | 1       |
| Cadmium   | <0.0000780 |           | 0.00100 | 0.0000780 | mg/L |   | 05/02/23 12:13 | 05/03/23 20:27 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-1

**Client Sample ID: BAW-2A**

**Lab Sample ID: 180-155616-2**

Date Collected: 04/20/23 16:55

Matrix: Water

Date Received: 04/26/23 10:39

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)**

| Analyte        | Result          | Qualifier | RL       | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------------|-----------|----------|----------|------|---|----------------|----------------|---------|
| <b>Calcium</b> | <b>0.685</b>    |           | 0.500    | 0.140    | mg/L |   | 05/02/23 12:13 | 05/03/23 20:27 | 1       |
| Chromium       | <0.00120        |           | 0.00200  | 0.00120  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:27 | 1       |
| <b>Cobalt</b>  | <b>0.000995</b> |           | 0.000500 | 0.000220 | mg/L |   | 05/02/23 12:13 | 05/03/23 20:27 | 1       |
| Lead           | <0.000210       |           | 0.00100  | 0.000210 | mg/L |   | 05/02/23 12:13 | 05/03/23 20:27 | 1       |
| <b>Lithium</b> | <b>0.00235</b>  | <b>J</b>  | 0.00500  | 0.00200  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:27 | 1       |
| Molybdenum     | <0.000860       |           | 0.00500  | 0.000860 | mg/L |   | 05/02/23 12:13 | 05/03/23 20:27 | 1       |
| Selenium       | <0.000990       |           | 0.00500  | 0.000990 | mg/L |   | 05/02/23 12:13 | 05/03/23 20:27 | 1       |
| Thallium       | <0.000260       |           | 0.00100  | 0.000260 | mg/L |   | 05/02/23 12:13 | 05/03/23 20:27 | 1       |

**Method: SW846 7470A - Mercury (CVAA)**

| Analyte | Result     | Qualifier | RL       | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Mercury | <0.0000800 |           | 0.000200 | 0.0000800 | mg/L |   | 05/01/23 14:25 | 05/02/23 11:48 | 1       |

**General Chemistry**

| Analyte                                  | Result      | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|-------------|-----------|------|------|------|---|----------|----------------|---------|
| <b>Total Dissolved Solids (SM 2540C)</b> | <b>30.0</b> |           | 10.0 | 10.0 | mg/L |   |          | 04/27/23 19:31 | 1       |

**Method: EPA Field Sampling - Field Sampling**

| Analyte         | Result      | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------|-------------|-----------|----|-----|------|---|----------|----------------|---------|
| <b>Field pH</b> | <b>4.83</b> |           |    |     | SU   |   |          | 04/20/23 17:55 | 1       |

**Client Sample ID: BAW-3**

**Lab Sample ID: 180-155616-3**

Date Collected: 04/20/23 18:08

Matrix: Water

Date Received: 04/26/23 10:39

**Method: SW846 EPA 9056A - Anions, Ion Chromatography**

| Analyte         | Result      | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------|-------------|-----------|-------|--------|------|---|----------|----------------|---------|
| <b>Chloride</b> | <b>5.36</b> |           | 1.00  | 0.713  | mg/L |   |          | 04/27/23 15:51 | 1       |
| Fluoride        | <0.0260     |           | 0.100 | 0.0260 | mg/L |   |          | 04/27/23 15:51 | 1       |
| <b>Sulfate</b>  | <b>8.20</b> |           | 1.00  | 0.756  | mg/L |   |          | 04/27/23 15:51 | 1       |

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

| Analyte          | Result          | Qualifier | RL       | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Antimony         | <0.000340       |           | 0.00200  | 0.000340  | mg/L |   | 05/02/23 12:13 | 05/03/23 21:11 | 1       |
| Arsenic          | <0.000860       |           | 0.00100  | 0.000860  | mg/L |   | 05/02/23 12:13 | 05/03/23 21:11 | 1       |
| <b>Barium</b>    | <b>0.0369</b>   |           | 0.0100   | 0.000890  | mg/L |   | 05/02/23 12:13 | 05/03/23 21:11 | 1       |
| <b>Beryllium</b> | <b>0.000225</b> | <b>J</b>  | 0.00100  | 0.000200  | mg/L |   | 05/02/23 12:13 | 05/03/23 21:11 | 1       |
| Boron            | <0.0220         |           | 0.0800   | 0.0220    | mg/L |   | 05/02/23 12:13 | 05/03/23 21:11 | 1       |
| <b>Cadmium</b>   | <b>0.000400</b> | <b>J</b>  | 0.00100  | 0.0000780 | mg/L |   | 05/02/23 12:13 | 05/03/23 21:11 | 1       |
| <b>Calcium</b>   | <b>0.789</b>    |           | 0.500    | 0.140     | mg/L |   | 05/02/23 12:13 | 05/03/23 21:11 | 1       |
| Chromium         | <0.00120        |           | 0.00200  | 0.00120   | mg/L |   | 05/02/23 12:13 | 05/03/23 21:11 | 1       |
| <b>Cobalt</b>    | <b>0.00830</b>  |           | 0.000500 | 0.000220  | mg/L |   | 05/02/23 12:13 | 05/03/23 21:11 | 1       |
| Lead             | <0.000210       |           | 0.00100  | 0.000210  | mg/L |   | 05/02/23 12:13 | 05/03/23 21:11 | 1       |
| <b>Lithium</b>   | <b>0.00309</b>  | <b>J</b>  | 0.00500  | 0.00200   | mg/L |   | 05/02/23 12:13 | 05/03/23 21:11 | 1       |
| Molybdenum       | <0.000860       |           | 0.00500  | 0.000860  | mg/L |   | 05/02/23 12:13 | 05/03/23 21:11 | 1       |
| Selenium         | <0.000990       |           | 0.00500  | 0.000990  | mg/L |   | 05/02/23 12:13 | 05/03/23 21:11 | 1       |
| Thallium         | <0.000260       |           | 0.00100  | 0.000260  | mg/L |   | 05/02/23 12:13 | 05/03/23 21:11 | 1       |

**Method: SW846 7470A - Mercury (CVAA)**

| Analyte | Result     | Qualifier | RL       | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Mercury | <0.0000800 |           | 0.000200 | 0.0000800 | mg/L |   | 05/01/23 14:25 | 05/02/23 11:53 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-1

**Client Sample ID: BAW-3**

Date Collected: 04/20/23 18:08

Date Received: 04/26/23 10:39

**Lab Sample ID: 180-155616-3**

Matrix: Water

**General Chemistry**

| Analyte                           | Result | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | 31.0   |           | 10.0 | 10.0 | mg/L |   |          | 04/27/23 19:31 | 1       |

**Method: EPA Field Sampling - Field Sampling**

| Analyte  | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 4.49   |           |    |     | SU   |   |          | 04/20/23 19:08 | 1       |

**Client Sample ID: BAW-4**

Date Collected: 04/21/23 09:50

Date Received: 04/26/23 10:39

**Lab Sample ID: 180-155616-4**

Matrix: Water

**Method: SW846 EPA 9056A - Anions, Ion Chromatography**

| Analyte  | Result | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride | 6.78   |           | 1.00  | 0.713  | mg/L |   |          | 04/27/23 16:46 | 1       |
| Fluoride | 0.0441 | J         | 0.100 | 0.0260 | mg/L |   |          | 04/27/23 16:46 | 1       |
| Sulfate  | 5.00   |           | 1.00  | 0.756  | mg/L |   |          | 04/27/23 16:46 | 1       |

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

| Analyte    | Result     | Qualifier | RL       | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Antimony   | <0.000340  |           | 0.00200  | 0.000340  | mg/L |   | 05/02/23 12:13 | 05/03/23 21:07 | 1       |
| Arsenic    | 0.00477    |           | 0.00100  | 0.000860  | mg/L |   | 05/02/23 12:13 | 05/03/23 21:07 | 1       |
| Barium     | 0.0223     |           | 0.0100   | 0.000890  | mg/L |   | 05/02/23 12:13 | 05/03/23 21:07 | 1       |
| Beryllium  | <0.000200  |           | 0.00100  | 0.000200  | mg/L |   | 05/02/23 12:13 | 05/03/23 21:07 | 1       |
| Boron      | 0.0580     | J         | 0.0800   | 0.0220    | mg/L |   | 05/02/23 12:13 | 05/03/23 21:07 | 1       |
| Cadmium    | <0.0000780 |           | 0.00100  | 0.0000780 | mg/L |   | 05/02/23 12:13 | 05/03/23 21:07 | 1       |
| Calcium    | 4.87       |           | 0.500    | 0.140     | mg/L |   | 05/02/23 12:13 | 05/03/23 21:07 | 1       |
| Chromium   | <0.00120   |           | 0.00200  | 0.00120   | mg/L |   | 05/02/23 12:13 | 05/03/23 21:07 | 1       |
| Cobalt     | 0.00142    |           | 0.000500 | 0.000220  | mg/L |   | 05/02/23 12:13 | 05/03/23 21:07 | 1       |
| Lead       | <0.000210  |           | 0.00100  | 0.000210  | mg/L |   | 05/02/23 12:13 | 05/03/23 21:07 | 1       |
| Lithium    | 0.00910    |           | 0.00500  | 0.00200   | mg/L |   | 05/02/23 12:13 | 05/03/23 21:07 | 1       |
| Molybdenum | 0.00109    | J         | 0.00500  | 0.000860  | mg/L |   | 05/02/23 12:13 | 05/03/23 21:07 | 1       |
| Selenium   | <0.000990  |           | 0.00500  | 0.000990  | mg/L |   | 05/02/23 12:13 | 05/03/23 21:07 | 1       |
| Thallium   | <0.000260  |           | 0.00100  | 0.000260  | mg/L |   | 05/02/23 12:13 | 05/03/23 21:07 | 1       |

**Method: SW846 7470A - Mercury (CVAA)**

| Analyte | Result     | Qualifier | RL       | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Mercury | <0.0000800 |           | 0.000200 | 0.0000800 | mg/L |   | 05/01/23 14:25 | 05/02/23 11:54 | 1       |

**General Chemistry**

| Analyte                           | Result | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | 50.0   |           | 10.0 | 10.0 | mg/L |   |          | 04/27/23 19:31 | 1       |

**Method: EPA Field Sampling - Field Sampling**

| Analyte  | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 5.45   |           |    |     | SU   |   |          | 04/21/23 10:50 | 1       |

**Client Sample ID: BAW-5**

Date Collected: 04/21/23 11:15

Date Received: 04/26/23 10:39

**Lab Sample ID: 180-155616-5**

Matrix: Water

**Method: SW846 EPA 9056A - Anions, Ion Chromatography**

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 11.3   |           | 1.00 | 0.713 | mg/L |   |          | 04/27/23 17:05 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-1

**Client Sample ID: BAW-5**

**Lab Sample ID: 180-155616-5**

Date Collected: 04/21/23 11:15

Matrix: Water

Date Received: 04/26/23 10:39

**Method: SW846 EPA 9056A - Anions, Ion Chromatography (Continued)**

| Analyte  | Result | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Fluoride | 0.0665 | J         | 0.100 | 0.0260 | mg/L |   |          | 04/27/23 17:05 | 1       |
| Sulfate  | 47.2   |           | 1.00  | 0.756  | mg/L |   |          | 04/27/23 17:05 | 1       |

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

| Analyte    | Result     | Qualifier | RL       | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Antimony   | <0.000340  |           | 0.00200  | 0.000340  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:59 | 1       |
| Arsenic    | 0.00683    |           | 0.00100  | 0.000860  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:59 | 1       |
| Barium     | 0.103      |           | 0.0100   | 0.000890  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:59 | 1       |
| Beryllium  | <0.000200  |           | 0.00100  | 0.000200  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:59 | 1       |
| Boron      | 0.831      |           | 0.0800   | 0.0220    | mg/L |   | 05/02/23 12:13 | 05/03/23 20:59 | 1       |
| Cadmium    | <0.0000780 |           | 0.00100  | 0.0000780 | mg/L |   | 05/02/23 12:13 | 05/03/23 20:59 | 1       |
| Calcium    | 26.8       |           | 0.500    | 0.140     | mg/L |   | 05/02/23 12:13 | 05/03/23 20:59 | 1       |
| Chromium   | <0.00120   |           | 0.00200  | 0.00120   | mg/L |   | 05/02/23 12:13 | 05/03/23 20:59 | 1       |
| Cobalt     | 0.00275    |           | 0.000500 | 0.000220  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:59 | 1       |
| Lead       | <0.000210  |           | 0.00100  | 0.000210  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:59 | 1       |
| Lithium    | 0.0564     |           | 0.00500  | 0.00200   | mg/L |   | 05/02/23 12:13 | 05/03/23 20:59 | 1       |
| Molybdenum | 0.00651    |           | 0.00500  | 0.000860  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:59 | 1       |
| Selenium   | <0.000990  |           | 0.00500  | 0.000990  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:59 | 1       |
| Thallium   | <0.000260  |           | 0.00100  | 0.000260  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:59 | 1       |

**Method: SW846 7470A - Mercury (CVAA)**

| Analyte | Result     | Qualifier | RL       | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Mercury | <0.0000800 |           | 0.000200 | 0.0000800 | mg/L |   | 05/01/23 14:25 | 05/02/23 11:56 | 1       |

**General Chemistry**

| Analyte                           | Result | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | 204    |           | 10.0 | 10.0 | mg/L |   |          | 04/27/23 19:31 | 1       |

**Method: EPA Field Sampling - Field Sampling**

| Analyte  | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 6.09   |           |    |     | SU   |   |          | 04/21/23 12:15 | 1       |

**Client Sample ID: BAW-7**

**Lab Sample ID: 180-155616-6**

Date Collected: 04/21/23 18:28

Matrix: Water

Date Received: 04/26/23 10:39

**Method: SW846 EPA 9056A - Anions, Ion Chromatography**

| Analyte  | Result  | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|---------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride | 8.95    |           | 1.00  | 0.713  | mg/L |   |          | 04/27/23 17:23 | 1       |
| Fluoride | <0.0260 |           | 0.100 | 0.0260 | mg/L |   |          | 04/27/23 17:23 | 1       |
| Sulfate  | 8.82    |           | 1.00  | 0.756  | mg/L |   |          | 04/27/23 17:23 | 1       |

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

| Analyte   | Result     | Qualifier | RL      | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|------------|-----------|---------|-----------|------|---|----------------|----------------|---------|
| Antimony  | <0.000340  |           | 0.00200 | 0.000340  | mg/L |   | 05/02/23 12:13 | 05/03/23 21:03 | 1       |
| Arsenic   | <0.000860  |           | 0.00100 | 0.000860  | mg/L |   | 05/02/23 12:13 | 05/03/23 21:03 | 1       |
| Barium    | 0.0355     |           | 0.0100  | 0.000890  | mg/L |   | 05/02/23 12:13 | 05/03/23 21:03 | 1       |
| Beryllium | <0.000200  |           | 0.00100 | 0.000200  | mg/L |   | 05/02/23 12:13 | 05/03/23 21:03 | 1       |
| Boron     | 0.271      |           | 0.0800  | 0.0220    | mg/L |   | 05/02/23 12:13 | 05/03/23 21:03 | 1       |
| Cadmium   | <0.0000780 |           | 0.00100 | 0.0000780 | mg/L |   | 05/02/23 12:13 | 05/03/23 21:03 | 1       |
| Calcium   | 2.56       |           | 0.500   | 0.140     | mg/L |   | 05/02/23 12:13 | 05/03/23 21:03 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-1

**Client Sample ID: BAW-7**

**Lab Sample ID: 180-155616-6**

Date Collected: 04/21/23 18:28

Matrix: Water

Date Received: 04/26/23 10:39

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)**

| Analyte        | Result         | Qualifier | RL       | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------|----------------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Chromium       | <0.00120       |           | 0.00200  | 0.00120  | mg/L |   | 05/02/23 12:13 | 05/03/23 21:03 | 1       |
| <b>Cobalt</b>  | <b>0.00216</b> |           | 0.000500 | 0.000220 | mg/L |   | 05/02/23 12:13 | 05/03/23 21:03 | 1       |
| Lead           | <0.000210      |           | 0.00100  | 0.000210 | mg/L |   | 05/02/23 12:13 | 05/03/23 21:03 | 1       |
| <b>Lithium</b> | <b>0.0107</b>  |           | 0.00500  | 0.00200  | mg/L |   | 05/02/23 12:13 | 05/03/23 21:03 | 1       |
| Molybdenum     | <0.000860      |           | 0.00500  | 0.000860 | mg/L |   | 05/02/23 12:13 | 05/03/23 21:03 | 1       |
| Selenium       | <0.000990      |           | 0.00500  | 0.000990 | mg/L |   | 05/02/23 12:13 | 05/03/23 21:03 | 1       |
| Thallium       | <0.000260      |           | 0.00100  | 0.000260 | mg/L |   | 05/02/23 12:13 | 05/03/23 21:03 | 1       |

**Method: SW846 7470A - Mercury (CVAA)**

| Analyte | Result     | Qualifier | RL       | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Mercury | <0.0000800 |           | 0.000200 | 0.0000800 | mg/L |   | 05/01/23 14:25 | 05/02/23 11:57 | 1       |

**General Chemistry**

| Analyte                                  | Result      | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|-------------|-----------|------|------|------|---|----------|----------------|---------|
| <b>Total Dissolved Solids (SM 2540C)</b> | <b>47.0</b> |           | 10.0 | 10.0 | mg/L |   |          | 04/27/23 19:31 | 1       |

**Method: EPA Field Sampling - Field Sampling**

| Analyte         | Result      | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------|-------------|-----------|----|-----|------|---|----------|----------------|---------|
| <b>Field pH</b> | <b>4.95</b> |           |    |     | SU   |   |          | 04/21/23 19:28 | 1       |

**Client Sample ID: BAW-8**

**Lab Sample ID: 180-155616-7**

Date Collected: 04/21/23 14:23

Matrix: Water

Date Received: 04/26/23 10:39

**Method: SW846 EPA 9056A - Anions, Ion Chromatography**

| Analyte         | Result        | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------|---------------|-----------|-------|--------|------|---|----------|----------------|---------|
| <b>Chloride</b> | <b>10.8</b>   |           | 1.00  | 0.713  | mg/L |   |          | 04/27/23 17:42 | 1       |
| <b>Fluoride</b> | <b>0.0509</b> | J         | 0.100 | 0.0260 | mg/L |   |          | 04/27/23 17:42 | 1       |
| <b>Sulfate</b>  | <b>36.9</b>   |           | 1.00  | 0.756  | mg/L |   |          | 04/27/23 17:42 | 1       |

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

| Analyte           | Result         | Qualifier | RL       | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-------------------|----------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Antimony          | <0.000340      |           | 0.00200  | 0.000340  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:31 | 1       |
| <b>Arsenic</b>    | <b>0.00599</b> |           | 0.00100  | 0.000860  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:31 | 1       |
| <b>Barium</b>     | <b>0.0890</b>  |           | 0.0100   | 0.000890  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:31 | 1       |
| Beryllium         | <0.000200      |           | 0.00100  | 0.000200  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:31 | 1       |
| <b>Boron</b>      | <b>0.750</b>   |           | 0.0800   | 0.0220    | mg/L |   | 05/02/23 12:13 | 05/03/23 20:31 | 1       |
| Cadmium           | <0.0000780     |           | 0.00100  | 0.0000780 | mg/L |   | 05/02/23 12:13 | 05/03/23 20:31 | 1       |
| <b>Calcium</b>    | <b>24.1</b>    |           | 0.500    | 0.140     | mg/L |   | 05/02/23 12:13 | 05/03/23 20:31 | 1       |
| Chromium          | <0.00120       |           | 0.00200  | 0.00120   | mg/L |   | 05/02/23 12:13 | 05/03/23 20:31 | 1       |
| <b>Cobalt</b>     | <b>0.00522</b> |           | 0.000500 | 0.000220  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:31 | 1       |
| Lead              | <0.000210      |           | 0.00100  | 0.000210  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:31 | 1       |
| <b>Lithium</b>    | <b>0.0533</b>  |           | 0.00500  | 0.00200   | mg/L |   | 05/02/23 12:13 | 05/03/23 20:31 | 1       |
| <b>Molybdenum</b> | <b>0.00418</b> | J         | 0.00500  | 0.000860  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:31 | 1       |
| Selenium          | <0.000990      |           | 0.00500  | 0.000990  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:31 | 1       |
| Thallium          | <0.000260      |           | 0.00100  | 0.000260  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:31 | 1       |

**Method: SW846 7470A - Mercury (CVAA)**

| Analyte | Result     | Qualifier | RL       | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Mercury | <0.0000800 |           | 0.000200 | 0.0000800 | mg/L |   | 05/01/23 14:41 | 05/02/23 12:02 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-1

**Client Sample ID: BAW-8**  
Date Collected: 04/21/23 14:23  
Date Received: 04/26/23 10:39

**Lab Sample ID: 180-155616-7**  
Matrix: Water

### General Chemistry

| Analyte                           | Result | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | 178    |           | 10.0 | 10.0 | mg/L |   |          | 04/27/23 19:31 | 1       |

### Method: EPA Field Sampling - Field Sampling

| Analyte  | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 6.05   |           |    |     | SU   |   |          | 04/21/23 15:23 | 1       |

**Client Sample ID: BAW-9**  
Date Collected: 04/21/23 13:00  
Date Received: 04/26/23 10:39

**Lab Sample ID: 180-155616-8**  
Matrix: Water

### Method: SW846 EPA 9056A - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride | 12.6   |           | 1.00  | 0.713  | mg/L |   |          | 04/27/23 18:00 | 1       |
| Fluoride | 0.0576 | J         | 0.100 | 0.0260 | mg/L |   |          | 04/27/23 18:00 | 1       |
| Sulfate  | 43.3   |           | 1.00  | 0.756  | mg/L |   |          | 04/27/23 18:00 | 1       |

### Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte    | Result     | Qualifier | RL       | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Antimony   | <0.000340  |           | 0.00200  | 0.000340  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:35 | 1       |
| Arsenic    | 0.00858    |           | 0.00100  | 0.000860  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:35 | 1       |
| Barium     | 0.0960     |           | 0.0100   | 0.000890  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:35 | 1       |
| Beryllium  | <0.000200  |           | 0.00100  | 0.000200  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:35 | 1       |
| Boron      | 0.885      |           | 0.0800   | 0.0220    | mg/L |   | 05/02/23 12:13 | 05/03/23 20:35 | 1       |
| Cadmium    | <0.0000780 |           | 0.00100  | 0.0000780 | mg/L |   | 05/02/23 12:13 | 05/03/23 20:35 | 1       |
| Calcium    | 23.0       |           | 0.500    | 0.140     | mg/L |   | 05/02/23 12:13 | 05/03/23 20:35 | 1       |
| Chromium   | 0.00120    | J         | 0.00200  | 0.00120   | mg/L |   | 05/02/23 12:13 | 05/03/23 20:35 | 1       |
| Cobalt     | 0.00926    |           | 0.000500 | 0.000220  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:35 | 1       |
| Lead       | 0.000275   | J         | 0.00100  | 0.000210  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:35 | 1       |
| Lithium    | 0.0357     |           | 0.00500  | 0.00200   | mg/L |   | 05/02/23 12:13 | 05/03/23 20:35 | 1       |
| Molybdenum | 0.00582    |           | 0.00500  | 0.000860  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:35 | 1       |
| Selenium   | <0.000990  |           | 0.00500  | 0.000990  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:35 | 1       |
| Thallium   | <0.000260  |           | 0.00100  | 0.000260  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:35 | 1       |

### Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result     | Qualifier | RL       | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Mercury | <0.0000800 |           | 0.000200 | 0.0000800 | mg/L |   | 05/01/23 14:41 | 05/02/23 12:07 | 1       |

### General Chemistry

| Analyte                           | Result | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | 208    |           | 10.0 | 10.0 | mg/L |   |          | 04/27/23 19:31 | 1       |

### Method: EPA Field Sampling - Field Sampling

| Analyte  | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 6.06   |           |    |     | SU   |   |          | 04/21/23 14:00 | 1       |

**Client Sample ID: DUP-01**  
Date Collected: 04/20/23 15:55  
Date Received: 04/26/23 10:39

**Lab Sample ID: 180-155616-9**  
Matrix: Water

### Method: SW846 EPA 9056A - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 9.95   |           | 1.00 | 0.713 | mg/L |   |          | 04/27/23 19:14 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-1

**Client Sample ID: DUP-01**  
Date Collected: 04/20/23 15:55  
Date Received: 04/26/23 10:39

**Lab Sample ID: 180-155616-9**  
Matrix: Water

**Method: SW846 EPA 9056A - Anions, Ion Chromatography (Continued)**

| Analyte        | Result      | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|-------------|-----------|-------|--------|------|---|----------|----------------|---------|
| Fluoride       | <0.0260     |           | 0.100 | 0.0260 | mg/L |   |          | 04/27/23 19:14 | 1       |
| <b>Sulfate</b> | <b>8.12</b> |           | 1.00  | 0.756  | mg/L |   |          | 04/27/23 19:14 | 1       |

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

| Analyte        | Result          | Qualifier | RL       | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Antimony       | <0.000340       |           | 0.00200  | 0.000340  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:39 | 1       |
| Arsenic        | <0.000860       |           | 0.00100  | 0.000860  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:39 | 1       |
| <b>Barium</b>  | <b>0.0348</b>   |           | 0.0100   | 0.000890  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:39 | 1       |
| Beryllium      | <0.000200       |           | 0.00100  | 0.000200  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:39 | 1       |
| <b>Boron</b>   | <b>0.0754 J</b> |           | 0.0800   | 0.0220    | mg/L |   | 05/02/23 12:13 | 05/03/23 20:39 | 1       |
| Cadmium        | <0.0000780      |           | 0.00100  | 0.0000780 | mg/L |   | 05/02/23 12:13 | 05/03/23 20:39 | 1       |
| <b>Calcium</b> | <b>0.679</b>    |           | 0.500    | 0.140     | mg/L |   | 05/02/23 12:13 | 05/03/23 20:39 | 1       |
| Chromium       | <0.00120        |           | 0.00200  | 0.00120   | mg/L |   | 05/02/23 12:13 | 05/03/23 20:39 | 1       |
| <b>Cobalt</b>  | <b>0.000990</b> |           | 0.000500 | 0.000220  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:39 | 1       |
| Lead           | <0.000210       |           | 0.00100  | 0.000210  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:39 | 1       |
| Lithium        | <0.00200        |           | 0.00500  | 0.00200   | mg/L |   | 05/02/23 12:13 | 05/03/23 20:39 | 1       |
| Molybdenum     | <0.000860       |           | 0.00500  | 0.000860  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:39 | 1       |
| Selenium       | <0.000990       |           | 0.00500  | 0.000990  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:39 | 1       |
| Thallium       | <0.000260       |           | 0.00100  | 0.000260  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:39 | 1       |

**Method: SW846 7470A - Mercury (CVAA)**

| Analyte | Result     | Qualifier | RL       | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Mercury | <0.0000800 |           | 0.000200 | 0.0000800 | mg/L |   | 05/01/23 14:41 | 05/02/23 12:11 | 1       |

**General Chemistry**

| Analyte                                  | Result      | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|-------------|-----------|------|------|------|---|----------|----------------|---------|
| <b>Total Dissolved Solids (SM 2540C)</b> | <b>33.0</b> |           | 10.0 | 10.0 | mg/L |   |          | 04/27/23 19:31 | 1       |

**Client Sample ID: DUP-02**  
Date Collected: 04/21/23 10:15  
Date Received: 04/26/23 10:39

**Lab Sample ID: 180-155616-10**  
Matrix: Water

**Method: SW846 EPA 9056A - Anions, Ion Chromatography**

| Analyte         | Result          | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------|-----------------|-----------|-------|--------|------|---|----------|----------------|---------|
| <b>Chloride</b> | <b>11.3</b>     |           | 1.00  | 0.713  | mg/L |   |          | 04/27/23 19:32 | 1       |
| <b>Fluoride</b> | <b>0.0662 J</b> |           | 0.100 | 0.0260 | mg/L |   |          | 04/27/23 19:32 | 1       |
| <b>Sulfate</b>  | <b>47.3</b>     |           | 1.00  | 0.756  | mg/L |   |          | 04/27/23 19:32 | 1       |

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

| Analyte        | Result         | Qualifier | RL       | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------|----------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Antimony       | <0.000340      |           | 0.00200  | 0.000340  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:23 | 1       |
| <b>Arsenic</b> | <b>0.00719</b> |           | 0.00100  | 0.000860  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:23 | 1       |
| <b>Barium</b>  | <b>0.101</b>   |           | 0.0100   | 0.000890  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:23 | 1       |
| Beryllium      | <0.000200      |           | 0.00100  | 0.000200  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:23 | 1       |
| <b>Boron</b>   | <b>0.889</b>   |           | 0.0800   | 0.0220    | mg/L |   | 05/02/23 12:13 | 05/03/23 20:23 | 1       |
| Cadmium        | <0.0000780     |           | 0.00100  | 0.0000780 | mg/L |   | 05/02/23 12:13 | 05/03/23 20:23 | 1       |
| <b>Calcium</b> | <b>27.6</b>    |           | 0.500    | 0.140     | mg/L |   | 05/02/23 12:13 | 05/03/23 20:23 | 1       |
| Chromium       | <0.00120       |           | 0.00200  | 0.00120   | mg/L |   | 05/02/23 12:13 | 05/03/23 20:23 | 1       |
| <b>Cobalt</b>  | <b>0.00296</b> |           | 0.000500 | 0.000220  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:23 | 1       |
| Lead           | <0.000210      |           | 0.00100  | 0.000210  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:23 | 1       |
| <b>Lithium</b> | <b>0.0580</b>  |           | 0.00500  | 0.00200   | mg/L |   | 05/02/23 12:13 | 05/03/23 20:23 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-1

**Client Sample ID: DUP-02**

**Lab Sample ID: 180-155616-10**

Date Collected: 04/21/23 10:15

Matrix: Water

Date Received: 04/26/23 10:39

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)**

| Analyte    | Result    | Qualifier | RL      | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Molybdenum | 0.00619   |           | 0.00500 | 0.000860 | mg/L |   | 05/02/23 12:13 | 05/03/23 20:23 | 1       |
| Selenium   | <0.000990 |           | 0.00500 | 0.000990 | mg/L |   | 05/02/23 12:13 | 05/03/23 20:23 | 1       |
| Thallium   | <0.000260 |           | 0.00100 | 0.000260 | mg/L |   | 05/02/23 12:13 | 05/03/23 20:23 | 1       |

**Method: SW846 7470A - Mercury (CVAA)**

| Analyte | Result     | Qualifier | RL       | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Mercury | <0.0000800 |           | 0.000200 | 0.0000800 | mg/L |   | 05/01/23 14:41 | 05/02/23 12:13 | 1       |

**General Chemistry**

| Analyte                           | Result | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | 218    |           | 10.0 | 10.0 | mg/L |   |          | 04/27/23 19:31 | 1       |

**Client Sample ID: FB-01**

**Lab Sample ID: 180-155616-11**

Date Collected: 04/21/23 12:08

Matrix: Water

Date Received: 04/26/23 10:39

**Method: SW846 EPA 9056A - Anions, Ion Chromatography**

| Analyte  | Result  | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|---------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride | <0.713  |           | 1.00  | 0.713  | mg/L |   |          | 04/27/23 20:28 | 1       |
| Fluoride | <0.0260 |           | 0.100 | 0.0260 | mg/L |   |          | 04/27/23 20:28 | 1       |
| Sulfate  | <0.756  |           | 1.00  | 0.756  | mg/L |   |          | 04/27/23 20:28 | 1       |

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

| Analyte    | Result     | Qualifier | RL       | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Antimony   | <0.000340  |           | 0.00200  | 0.000340  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:43 | 1       |
| Arsenic    | <0.000860  |           | 0.00100  | 0.000860  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:43 | 1       |
| Barium     | <0.000890  |           | 0.0100   | 0.000890  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:43 | 1       |
| Beryllium  | <0.000200  |           | 0.00100  | 0.000200  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:43 | 1       |
| Boron      | <0.0220    |           | 0.0800   | 0.0220    | mg/L |   | 05/02/23 12:13 | 05/03/23 20:43 | 1       |
| Cadmium    | <0.0000780 |           | 0.00100  | 0.0000780 | mg/L |   | 05/02/23 12:13 | 05/03/23 20:43 | 1       |
| Calcium    | <0.140     |           | 0.500    | 0.140     | mg/L |   | 05/02/23 12:13 | 05/03/23 20:43 | 1       |
| Chromium   | <0.00120   |           | 0.00200  | 0.00120   | mg/L |   | 05/02/23 12:13 | 05/03/23 20:43 | 1       |
| Cobalt     | <0.000220  |           | 0.000500 | 0.000220  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:43 | 1       |
| Lead       | <0.000210  |           | 0.00100  | 0.000210  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:43 | 1       |
| Lithium    | <0.00200   |           | 0.00500  | 0.00200   | mg/L |   | 05/02/23 12:13 | 05/03/23 20:43 | 1       |
| Molybdenum | <0.000860  |           | 0.00500  | 0.000860  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:43 | 1       |
| Selenium   | <0.000990  |           | 0.00500  | 0.000990  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:43 | 1       |
| Thallium   | <0.000260  |           | 0.00100  | 0.000260  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:43 | 1       |

**Method: SW846 7470A - Mercury (CVAA)**

| Analyte | Result     | Qualifier | RL       | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Mercury | <0.0000800 |           | 0.000200 | 0.0000800 | mg/L |   | 05/01/23 14:41 | 05/02/23 12:14 | 1       |

**General Chemistry**

| Analyte                           | Result | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | <10.0  |           | 10.0 | 10.0 | mg/L |   |          | 04/27/23 19:31 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-1

**Client Sample ID: EB-01**

**Lab Sample ID: 180-155616-12**

Date Collected: 04/21/23 12:14

Matrix: Water

Date Received: 04/26/23 10:39

### Method: SW846 EPA 9056A - Anions, Ion Chromatography

| Analyte  | Result  | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|---------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride | <0.713  |           | 1.00  | 0.713  | mg/L |   |          | 04/27/23 20:46 | 1       |
| Fluoride | <0.0260 |           | 0.100 | 0.0260 | mg/L |   |          | 04/27/23 20:46 | 1       |
| Sulfate  | <0.756  |           | 1.00  | 0.756  | mg/L |   |          | 04/27/23 20:46 | 1       |

### Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte    | Result     | Qualifier | RL       | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Antimony   | <0.000340  |           | 0.00200  | 0.000340  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:47 | 1       |
| Arsenic    | <0.000860  |           | 0.00100  | 0.000860  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:47 | 1       |
| Barium     | <0.000890  |           | 0.0100   | 0.000890  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:47 | 1       |
| Beryllium  | <0.000200  |           | 0.00100  | 0.000200  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:47 | 1       |
| Boron      | <0.0220    |           | 0.0800   | 0.0220    | mg/L |   | 05/02/23 12:13 | 05/03/23 20:47 | 1       |
| Cadmium    | <0.0000780 |           | 0.00100  | 0.0000780 | mg/L |   | 05/02/23 12:13 | 05/03/23 20:47 | 1       |
| Calcium    | <0.140     |           | 0.500    | 0.140     | mg/L |   | 05/02/23 12:13 | 05/03/23 20:47 | 1       |
| Chromium   | <0.00120   |           | 0.00200  | 0.00120   | mg/L |   | 05/02/23 12:13 | 05/03/23 20:47 | 1       |
| Cobalt     | <0.000220  |           | 0.000500 | 0.000220  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:47 | 1       |
| Lead       | <0.000210  |           | 0.00100  | 0.000210  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:47 | 1       |
| Lithium    | <0.00200   |           | 0.00500  | 0.00200   | mg/L |   | 05/02/23 12:13 | 05/03/23 20:47 | 1       |
| Molybdenum | <0.000860  |           | 0.00500  | 0.000860  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:47 | 1       |
| Selenium   | <0.000990  |           | 0.00500  | 0.000990  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:47 | 1       |
| Thallium   | <0.000260  |           | 0.00100  | 0.000260  | mg/L |   | 05/02/23 12:13 | 05/03/23 20:47 | 1       |

### Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result     | Qualifier | RL       | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Mercury | <0.0000800 |           | 0.000200 | 0.0000800 | mg/L |   | 05/01/23 14:41 | 05/02/23 12:16 | 1       |

### General Chemistry

| Analyte                           | Result | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | <10.0  |           | 10.0 | 10.0 | mg/L |   |          | 04/27/23 19:31 | 1       |

# QC Sample Results

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-1

## Method: EPA 9056A - Anions, Ion Chromatography

**Lab Sample ID: MB 180-433579/6**  
**Matrix: Water**  
**Analysis Batch: 433579**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

| Analyte  | MB Result | MB Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|-------|--------|------|---|----------|----------------|---------|
| Chloride | <0.713    |              | 1.00  | 0.713  | mg/L |   |          | 04/27/23 12:18 | 1       |
| Fluoride | <0.0260   |              | 0.100 | 0.0260 | mg/L |   |          | 04/27/23 12:18 | 1       |
| Sulfate  | <0.756    |              | 1.00  | 0.756  | mg/L |   |          | 04/27/23 12:18 | 1       |

**Lab Sample ID: LCS 180-433579/7**  
**Matrix: Water**  
**Analysis Batch: 433579**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Chloride | 50.0        | 51.32      |               | mg/L |   | 103  | 80 - 120    |
| Fluoride | 2.50        | 2.636      |               | mg/L |   | 105  | 80 - 120    |
| Sulfate  | 50.0        | 54.53      |               | mg/L |   | 109  | 80 - 120    |

**Lab Sample ID: 180-155616-1 MS**  
**Matrix: Water**  
**Analysis Batch: 433579**

**Client Sample ID: BAW-1**  
**Prep Type: Total/NA**

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Chloride | 5.22          |                  | 50.0        | 53.30     |              | mg/L |   | 96   | 80 - 120    |
| Fluoride | <0.0260       |                  | 2.50        | 2.915     |              | mg/L |   | 117  | 80 - 120    |
| Sulfate  | 2.60          |                  | 50.0        | 53.81     |              | mg/L |   | 102  | 80 - 120    |

**Lab Sample ID: 180-155616-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 433579**

**Client Sample ID: BAW-1**  
**Prep Type: Total/NA**

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Chloride | 5.22          |                  | 50.0        | 53.14      |               | mg/L |   | 96   | 80 - 120    | 0   | 15        |
| Fluoride | <0.0260       |                  | 2.50        | 2.974      |               | mg/L |   | 119  | 80 - 120    | 2   | 15        |
| Sulfate  | 2.60          |                  | 50.0        | 53.54      |               | mg/L |   | 102  | 80 - 120    | 0   | 15        |

## Method: 6020B - Metals (ICP/MS)

**Lab Sample ID: MB 680-776480/1-A**  
**Matrix: Water**  
**Analysis Batch: 776852**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 776480**

| Analyte    | MB Result  | MB Qualifier | RL       | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|------------|--------------|----------|-----------|------|---|----------------|----------------|---------|
| Antimony   | <0.000340  |              | 0.00200  | 0.000340  | mg/L |   | 05/02/23 12:13 | 05/03/23 19:22 | 1       |
| Arsenic    | <0.000860  |              | 0.00100  | 0.000860  | mg/L |   | 05/02/23 12:13 | 05/03/23 19:22 | 1       |
| Barium     | <0.000890  |              | 0.0100   | 0.000890  | mg/L |   | 05/02/23 12:13 | 05/03/23 19:22 | 1       |
| Beryllium  | <0.000200  |              | 0.00100  | 0.000200  | mg/L |   | 05/02/23 12:13 | 05/03/23 19:22 | 1       |
| Boron      | <0.0220    |              | 0.0800   | 0.0220    | mg/L |   | 05/02/23 12:13 | 05/03/23 19:22 | 1       |
| Cadmium    | <0.0000780 |              | 0.00100  | 0.0000780 | mg/L |   | 05/02/23 12:13 | 05/03/23 19:22 | 1       |
| Calcium    | <0.140     |              | 0.500    | 0.140     | mg/L |   | 05/02/23 12:13 | 05/03/23 19:22 | 1       |
| Chromium   | <0.00120   |              | 0.00200  | 0.00120   | mg/L |   | 05/02/23 12:13 | 05/03/23 19:22 | 1       |
| Cobalt     | <0.000220  |              | 0.000500 | 0.000220  | mg/L |   | 05/02/23 12:13 | 05/03/23 19:22 | 1       |
| Lead       | <0.000210  |              | 0.00100  | 0.000210  | mg/L |   | 05/02/23 12:13 | 05/03/23 19:22 | 1       |
| Lithium    | <0.00200   |              | 0.00500  | 0.00200   | mg/L |   | 05/02/23 12:13 | 05/03/23 19:22 | 1       |
| Molybdenum | <0.000860  |              | 0.00500  | 0.000860  | mg/L |   | 05/02/23 12:13 | 05/03/23 19:22 | 1       |

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# QC Sample Results

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-1

## Method: 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: MB 680-776480/1-A**  
**Matrix: Water**  
**Analysis Batch: 776852**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 776480**

| Analyte  | MB Result | MB Qualifier | RL      | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|-----------|--------------|---------|----------|------|---|----------------|----------------|---------|
| Selenium | <0.000990 |              | 0.00500 | 0.000990 | mg/L |   | 05/02/23 12:13 | 05/03/23 19:22 | 1       |
| Thallium | <0.000260 |              | 0.00100 | 0.000260 | mg/L |   | 05/02/23 12:13 | 05/03/23 19:22 | 1       |

**Lab Sample ID: LCS 680-776480/2-A**  
**Matrix: Water**  
**Analysis Batch: 776852**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 776480**

| Analyte    | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------|-------------|------------|---------------|------|---|------|-------------|
| Antimony   | 0.0500      | 0.04938    |               | mg/L |   | 99   | 80 - 120    |
| Arsenic    | 0.100       | 0.09965    |               | mg/L |   | 100  | 80 - 120    |
| Barium     | 0.100       | 0.09604    |               | mg/L |   | 96   | 80 - 120    |
| Beryllium  | 0.0500      | 0.05097    |               | mg/L |   | 102  | 80 - 120    |
| Boron      | 0.200       | 0.1904     |               | mg/L |   | 95   | 80 - 120    |
| Cadmium    | 0.0500      | 0.04849    |               | mg/L |   | 97   | 80 - 120    |
| Calcium    | 5.00        | 5.016      |               | mg/L |   | 100  | 80 - 120    |
| Chromium   | 0.100       | 0.09695    |               | mg/L |   | 97   | 80 - 120    |
| Cobalt     | 0.0500      | 0.04958    |               | mg/L |   | 99   | 80 - 120    |
| Lead       | 0.500       | 0.4634     |               | mg/L |   | 93   | 80 - 120    |
| Lithium    | 0.500       | 0.4561     |               | mg/L |   | 91   | 80 - 120    |
| Molybdenum | 0.100       | 0.09730    |               | mg/L |   | 97   | 80 - 120    |
| Selenium   | 0.100       | 0.09944    |               | mg/L |   | 99   | 80 - 120    |
| Thallium   | 0.0500      | 0.04684    |               | mg/L |   | 94   | 80 - 120    |

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 680-776266/1-A**  
**Matrix: Water**  
**Analysis Batch: 776644**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 776266**

| Analyte | MB Result  | MB Qualifier | RL       | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|------------|--------------|----------|-----------|------|---|----------------|----------------|---------|
| Mercury | <0.0000800 |              | 0.000200 | 0.0000800 | mg/L |   | 05/01/23 14:25 | 05/02/23 11:15 | 1       |

**Lab Sample ID: LCS 680-776266/2-A**  
**Matrix: Water**  
**Analysis Batch: 776644**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 776266**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Mercury | 0.00250     | 0.002354   |               | mg/L |   | 94   | 80 - 120    |

**Lab Sample ID: MB 680-776267/1-A**  
**Matrix: Water**  
**Analysis Batch: 776644**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 776267**

| Analyte | MB Result  | MB Qualifier | RL       | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|------------|--------------|----------|-----------|------|---|----------------|----------------|---------|
| Mercury | <0.0000800 |              | 0.000200 | 0.0000800 | mg/L |   | 05/01/23 14:41 | 05/02/23 11:59 | 1       |

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# QC Sample Results

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-1

## Method: 7470A - Mercury (CVAA) (Continued)

**Lab Sample ID: LCS 680-776267/2-A**  
**Matrix: Water**  
**Analysis Batch: 776644**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 776267**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Mercury | 0.00250     | 0.002464   |               | mg/L |   | 99   | 80 - 120    |

**Lab Sample ID: 180-155616-7 MS**  
**Matrix: Water**  
**Analysis Batch: 776644**

**Client Sample ID: BAW-8**  
**Prep Type: Total/NA**  
**Prep Batch: 776267**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Mercury | <0.0000800    |                  | 0.00100     | 0.0008849 |              | mg/L |   | 88   | 80 - 120    |

**Lab Sample ID: 180-155616-7 MSD**  
**Matrix: Water**  
**Analysis Batch: 776644**

**Client Sample ID: BAW-8**  
**Prep Type: Total/NA**  
**Prep Batch: 776267**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Mercury | <0.0000800    |                  | 0.00100     | 0.0008663  |               | mg/L |   | 87   | 80 - 120    | 2   | 20        |

## Method: SM 2540C - Solids, Total Dissolved (TDS)

**Lab Sample ID: MB 180-433646/1**  
**Matrix: Water**  
**Analysis Batch: 433646**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

| Analyte                | MB Result | MB Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|-----------|--------------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10.0     |              | 10.0 | 10.0 | mg/L |   |          | 04/27/23 19:31 | 1       |

**Lab Sample ID: LCS 180-433646/2**  
**Matrix: Water**  
**Analysis Batch: 433646**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

| Analyte                | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------|-------------|------------|---------------|------|---|------|-------------|
| Total Dissolved Solids | 580         | 548.0      |               | mg/L |   | 94   | 85 - 115    |

**Lab Sample ID: 180-155616-5 DU**  
**Matrix: Water**  
**Analysis Batch: 433646**

**Client Sample ID: BAW-5**  
**Prep Type: Total/NA**

| Analyte                | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Dissolved Solids | 204           |                  | 210.0     |              | mg/L |   | 3   | 10        |

# QC Association Summary

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-1

## HPLC/IC

### Analysis Batch: 433579

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method    | Prep Batch |
|------------------|--------------------|-----------|--------|-----------|------------|
| 180-155616-1     | BAW-1              | Total/NA  | Water  | EPA 9056A |            |
| 180-155616-2     | BAW-2A             | Total/NA  | Water  | EPA 9056A |            |
| 180-155616-3     | BAW-3              | Total/NA  | Water  | EPA 9056A |            |
| 180-155616-4     | BAW-4              | Total/NA  | Water  | EPA 9056A |            |
| 180-155616-5     | BAW-5              | Total/NA  | Water  | EPA 9056A |            |
| 180-155616-6     | BAW-7              | Total/NA  | Water  | EPA 9056A |            |
| 180-155616-7     | BAW-8              | Total/NA  | Water  | EPA 9056A |            |
| 180-155616-8     | BAW-9              | Total/NA  | Water  | EPA 9056A |            |
| 180-155616-9     | DUP-01             | Total/NA  | Water  | EPA 9056A |            |
| 180-155616-10    | DUP-02             | Total/NA  | Water  | EPA 9056A |            |
| 180-155616-11    | FB-01              | Total/NA  | Water  | EPA 9056A |            |
| 180-155616-12    | EB-01              | Total/NA  | Water  | EPA 9056A |            |
| MB 180-433579/6  | Method Blank       | Total/NA  | Water  | EPA 9056A |            |
| LCS 180-433579/7 | Lab Control Sample | Total/NA  | Water  | EPA 9056A |            |
| 180-155616-1 MS  | BAW-1              | Total/NA  | Water  | EPA 9056A |            |
| 180-155616-1 MSD | BAW-1              | Total/NA  | Water  | EPA 9056A |            |

## Metals

### Prep Batch: 776266

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 180-155616-1       | BAW-1              | Total/NA  | Water  | 7470A  |            |
| 180-155616-2       | BAW-2A             | Total/NA  | Water  | 7470A  |            |
| 180-155616-3       | BAW-3              | Total/NA  | Water  | 7470A  |            |
| 180-155616-4       | BAW-4              | Total/NA  | Water  | 7470A  |            |
| 180-155616-5       | BAW-5              | Total/NA  | Water  | 7470A  |            |
| 180-155616-6       | BAW-7              | Total/NA  | Water  | 7470A  |            |
| MB 680-776266/1-A  | Method Blank       | Total/NA  | Water  | 7470A  |            |
| LCS 680-776266/2-A | Lab Control Sample | Total/NA  | Water  | 7470A  |            |

### Prep Batch: 776267

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 180-155616-7       | BAW-8              | Total/NA  | Water  | 7470A  |            |
| 180-155616-8       | BAW-9              | Total/NA  | Water  | 7470A  |            |
| 180-155616-9       | DUP-01             | Total/NA  | Water  | 7470A  |            |
| 180-155616-10      | DUP-02             | Total/NA  | Water  | 7470A  |            |
| 180-155616-11      | FB-01              | Total/NA  | Water  | 7470A  |            |
| 180-155616-12      | EB-01              | Total/NA  | Water  | 7470A  |            |
| MB 680-776267/1-A  | Method Blank       | Total/NA  | Water  | 7470A  |            |
| LCS 680-776267/2-A | Lab Control Sample | Total/NA  | Water  | 7470A  |            |
| 180-155616-7 MS    | BAW-8              | Total/NA  | Water  | 7470A  |            |
| 180-155616-7 MSD   | BAW-8              | Total/NA  | Water  | 7470A  |            |

### Prep Batch: 776480

| Lab Sample ID | Client Sample ID | Prep Type         | Matrix | Method | Prep Batch |
|---------------|------------------|-------------------|--------|--------|------------|
| 180-155616-1  | BAW-1            | Total Recoverable | Water  | 3005A  |            |
| 180-155616-2  | BAW-2A           | Total Recoverable | Water  | 3005A  |            |
| 180-155616-3  | BAW-3            | Total Recoverable | Water  | 3005A  |            |
| 180-155616-4  | BAW-4            | Total Recoverable | Water  | 3005A  |            |
| 180-155616-5  | BAW-5            | Total Recoverable | Water  | 3005A  |            |
| 180-155616-6  | BAW-7            | Total Recoverable | Water  | 3005A  |            |

Eurofins Pittsburgh

# QC Association Summary

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-1

## Metals (Continued)

### Prep Batch: 776480 (Continued)

| Lab Sample ID      | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 180-155616-7       | BAW-8              | Total Recoverable | Water  | 3005A  |            |
| 180-155616-8       | BAW-9              | Total Recoverable | Water  | 3005A  |            |
| 180-155616-9       | DUP-01             | Total Recoverable | Water  | 3005A  |            |
| 180-155616-10      | DUP-02             | Total Recoverable | Water  | 3005A  |            |
| 180-155616-11      | FB-01              | Total Recoverable | Water  | 3005A  |            |
| 180-155616-12      | EB-01              | Total Recoverable | Water  | 3005A  |            |
| MB 680-776480/1-A  | Method Blank       | Total Recoverable | Water  | 3005A  |            |
| LCS 680-776480/2-A | Lab Control Sample | Total Recoverable | Water  | 3005A  |            |

### Analysis Batch: 776644

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 180-155616-1       | BAW-1              | Total/NA  | Water  | 7470A  | 776266     |
| 180-155616-2       | BAW-2A             | Total/NA  | Water  | 7470A  | 776266     |
| 180-155616-3       | BAW-3              | Total/NA  | Water  | 7470A  | 776266     |
| 180-155616-4       | BAW-4              | Total/NA  | Water  | 7470A  | 776266     |
| 180-155616-5       | BAW-5              | Total/NA  | Water  | 7470A  | 776266     |
| 180-155616-6       | BAW-7              | Total/NA  | Water  | 7470A  | 776266     |
| 180-155616-7       | BAW-8              | Total/NA  | Water  | 7470A  | 776267     |
| 180-155616-8       | BAW-9              | Total/NA  | Water  | 7470A  | 776267     |
| 180-155616-9       | DUP-01             | Total/NA  | Water  | 7470A  | 776267     |
| 180-155616-10      | DUP-02             | Total/NA  | Water  | 7470A  | 776267     |
| 180-155616-11      | FB-01              | Total/NA  | Water  | 7470A  | 776267     |
| 180-155616-12      | EB-01              | Total/NA  | Water  | 7470A  | 776267     |
| MB 680-776266/1-A  | Method Blank       | Total/NA  | Water  | 7470A  | 776266     |
| MB 680-776267/1-A  | Method Blank       | Total/NA  | Water  | 7470A  | 776267     |
| LCS 680-776266/2-A | Lab Control Sample | Total/NA  | Water  | 7470A  | 776266     |
| LCS 680-776267/2-A | Lab Control Sample | Total/NA  | Water  | 7470A  | 776267     |
| 180-155616-7 MS    | BAW-8              | Total/NA  | Water  | 7470A  | 776267     |
| 180-155616-7 MSD   | BAW-8              | Total/NA  | Water  | 7470A  | 776267     |

### Analysis Batch: 776852

| Lab Sample ID      | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 180-155616-1       | BAW-1              | Total Recoverable | Water  | 6020B  | 776480     |
| 180-155616-2       | BAW-2A             | Total Recoverable | Water  | 6020B  | 776480     |
| 180-155616-3       | BAW-3              | Total Recoverable | Water  | 6020B  | 776480     |
| 180-155616-4       | BAW-4              | Total Recoverable | Water  | 6020B  | 776480     |
| 180-155616-5       | BAW-5              | Total Recoverable | Water  | 6020B  | 776480     |
| 180-155616-6       | BAW-7              | Total Recoverable | Water  | 6020B  | 776480     |
| 180-155616-7       | BAW-8              | Total Recoverable | Water  | 6020B  | 776480     |
| 180-155616-8       | BAW-9              | Total Recoverable | Water  | 6020B  | 776480     |
| 180-155616-9       | DUP-01             | Total Recoverable | Water  | 6020B  | 776480     |
| 180-155616-10      | DUP-02             | Total Recoverable | Water  | 6020B  | 776480     |
| 180-155616-11      | FB-01              | Total Recoverable | Water  | 6020B  | 776480     |
| 180-155616-12      | EB-01              | Total Recoverable | Water  | 6020B  | 776480     |
| MB 680-776480/1-A  | Method Blank       | Total Recoverable | Water  | 6020B  | 776480     |
| LCS 680-776480/2-A | Lab Control Sample | Total Recoverable | Water  | 6020B  | 776480     |

# QC Association Summary

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-1

## General Chemistry

### Analysis Batch: 433646


| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method   | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 180-155616-1     | BAW-1              | Total/NA  | Water  | SM 2540C |            |
| 180-155616-2     | BAW-2A             | Total/NA  | Water  | SM 2540C |            |
| 180-155616-3     | BAW-3              | Total/NA  | Water  | SM 2540C |            |
| 180-155616-4     | BAW-4              | Total/NA  | Water  | SM 2540C |            |
| 180-155616-5     | BAW-5              | Total/NA  | Water  | SM 2540C |            |
| 180-155616-6     | BAW-7              | Total/NA  | Water  | SM 2540C |            |
| 180-155616-7     | BAW-8              | Total/NA  | Water  | SM 2540C |            |
| 180-155616-8     | BAW-9              | Total/NA  | Water  | SM 2540C |            |
| 180-155616-9     | DUP-01             | Total/NA  | Water  | SM 2540C |            |
| 180-155616-10    | DUP-02             | Total/NA  | Water  | SM 2540C |            |
| 180-155616-11    | FB-01              | Total/NA  | Water  | SM 2540C |            |
| 180-155616-12    | EB-01              | Total/NA  | Water  | SM 2540C |            |
| MB 180-433646/1  | Method Blank       | Total/NA  | Water  | SM 2540C |            |
| LCS 180-433646/2 | Lab Control Sample | Total/NA  | Water  | SM 2540C |            |
| 180-155616-5 DU  | BAW-5              | Total/NA  | Water  | SM 2540C |            |

## Field Service / Mobile Lab

### Analysis Batch: 434791

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method         | Prep Batch |
|---------------|------------------|-----------|--------|----------------|------------|
| 180-155616-1  | BAW-1            | Total/NA  | Water  | Field Sampling |            |
| 180-155616-2  | BAW-2A           | Total/NA  | Water  | Field Sampling |            |
| 180-155616-3  | BAW-3            | Total/NA  | Water  | Field Sampling |            |
| 180-155616-4  | BAW-4            | Total/NA  | Water  | Field Sampling |            |
| 180-155616-5  | BAW-5            | Total/NA  | Water  | Field Sampling |            |
| 180-155616-6  | BAW-7            | Total/NA  | Water  | Field Sampling |            |
| 180-155616-7  | BAW-8            | Total/NA  | Water  | Field Sampling |            |
| 180-155616-8  | BAW-9            | Total/NA  | Water  | Field Sampling |            |

**Chain of Custody Record**

|  |  |  |  |   |  |
|--|--|--|--|---|--|
| <b>Client Information</b><br>Client Contact: <i>Rick Heyenderfer</i><br>SCS Contacts: <i>855-336-0192</i><br>Company: <i>SCS</i>   |  | Lab PM: <i>Brown, Shali</i><br>E-Mail: <i>shali.brown@eurofinset.com</i>   |  | Carrier Tracking No(s): <i>180-155616 Chain of Custody</i>  |  |
| Address: <i>3535 Colonnade Pkwy Bin S 530 EC</i><br>City: <i>Birmingham</i><br>State, Zip: <i>Alabama</i><br>Phone: <i>205.992.6283</i><br>Email: <i>rsingleton/ros.ryle@subinstruments.com</i>  |  | Due Date Requested:<br>TAT Requested (days):<br>PO #: <i>SCS10382606</i><br>WO #:  |  | Barcode: <br>180-155616 Chain of Custody   |  |
| Project #: <i>18020047</i><br>Plant Name: <i>Daniel Ash Pond B</i><br>Site:  |  | Perform MSD (Yes or No): <input checked="" type="checkbox"/><br>Field Filtered Sample (Yes or No): <input checked="" type="checkbox"/><br>Radium 226 Radium 228 + Combined:  |  | Codes:<br>M - Hexane<br>N - None<br>O - AsNaO2<br>P - Na2O4S<br>Q - Na2SO3<br>R - Na2S2O3<br>S - H2SO4<br>T - TSP Dodecahydrate<br>U - Acetone<br>V - MCAA<br>W - pH 4-5<br>Z - other (specify) |  |
| Sample Identification<br>Sample Date<br>Sample Time<br>Sample Type (C=comp, G=grab)<br>Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air)<br>Preservation Code:  |  | Custom 14 (AppII and IV) + Mercury<br>Chloride Fluoride and Sulfate<br>Total Dissolved Solids<br>An  |  | Special Instructions/Note:<br>Total Number of containers  |  |
| BAW-1<br>BAW-2A<br>BAW-3<br>BAW-4<br>BAW-5<br>BAW-7<br>BAW-8<br>BAW-9<br>OWP-01<br>OWP-02<br>FB-01   |  | 4-20-23 1326 G water W<br>4-20-23 1655 G water W<br>4-20-23 1808 G water W<br>4-21-23 0950 G water W<br>4-21-23 1115 G water W<br>4-21-23 1828 G water W<br>4-21-23 1423 G water W<br>4-21-23 1300 G water W<br>4-20-23 1555 G water W<br>4-21-23 1015 G water W<br>4-21-23 1208 G water W |  | X<br>5<br>5<br>5<br>6<br>5<br>5<br>6<br>6<br>5<br>5   |  |
| Possible Hazard Identification<br><input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological |  | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)<br><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months  |  | Special Instructions/QC Requirements:   |  |
| Deliverable Requested: I, II, III, IV, Other (specify) <i>Level II Reports and Associated EDDS</i>   |  | Empty Kit Relinquished by: <i>Fay Fay</i>  |  | Method of Shipment:   |  |
| Relinquished by: <i>Fay Fay</i>  |  | Received by: <i>Roham</i>  |  | Date/Time: <i>4-26-23 10:39</i>   |  |
| Relinquished by:   |  | Received by:   |  | Date/Time:  |  |
| Relinquished by:   |  | Received by:   |  | Date/Time:  |  |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No   |  | Cooler Temperature(s) °C and Other Remarks:  |  | Company: <i>Roham</i>   |  |





# Chain of Custody Record

|   |  |  |                          |   |   |  |  |   |  |  |  |
|---|--|--|--------------------------|---|---|--|--|---|--|--|--|
| <b>Client Information</b><br>Client Contact: <u>Rick Ayendasfer</u><br>SCS Contacts: <u>850-336-0192</u><br>Company: SCS  |  | Lab PM: Brown, Shai<br>E-Mail: shai.brown@eurofinset.com   |                          | Carrier Tracking No(s):<br>COC No:  |   | Page: <u>2 of 2</u><br>Job #:            |  |   |  |  |  |
| Due Date Requested:<br>TAT Requested (days):<br>PO #: <u>SCS10382606</u><br>WO #: <u>18020047</u><br>SCS Contacts: <u>Tracy Singleton / Rosingle &amp; Southon Co, LLC</u><br>Project Name: <u>Plant Daniel Ash Pond B</u><br>Site:                             |  |  |                          | <b>Analysis Requested</b><br>Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/><br>Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/><br>Custom 14 (Appil and IV) + Mercury <input checked="" type="checkbox"/><br>Chloride Fluoride and Sulfate <input checked="" type="checkbox"/><br>Total Dissolved Solids <input checked="" type="checkbox"/><br>Radium 226 Radium 228 + Combined <input checked="" type="checkbox"/> |   |  |  | Preservation Codes:<br>A - HCL<br>B - NaOH<br>C - Zn Acetate<br>D - Nitric Acid<br>E - NaHSO4<br>F - MeOH<br>G - Amchlor<br>H - Ascorbic Acid<br>I - Ice<br>J - DI Water<br>K - EDTA<br>L - EDA<br>Other: |  |  |  |
| <b>Sample Identification</b><br><u>EB-01</u>  |  | Sample Date: <u>4-21-23</u>  | Sample Time: <u>1214</u> | Sample Type (C=Comp, G=grab): <u>G</u>  | Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air): <u>water</u> | Special Instructions/Note:               |  |   |  |  |  |
| <b>Possible Hazard Identification</b><br><input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological |  | <b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b><br><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months |                          |   |   |  |  |   |  |  |  |
| <b>Deliverable Requested: I, II, III, IV, Other (specify)</b><br><u>Level II Reports and Associated EDPs</u>  |  |  |                          |   |   |  |  |   |  |  |  |
| <b>Empty Kit Relinquished by:</b><br><u>Shai Brown</u>  |  | <b>Date:</b><br><u>4/24/23</u>   |                          | <b>Time:</b>  |   | <b>Method of Shipment:</b>               |  |   |  |  |  |
| <b>Reinquired by:</b><br><u>Shai Brown</u>  |  | <b>Date/Time:</b><br><u>4/24/23 0534</u>   |                          | <b>Date/Time:</b><br><u>4-26-23 1039</u>  |   | <b>Date/Time:</b><br><u>4-26-23 1039</u> |  |   |  |  |  |
| <b>Reinquired by:</b><br><u>Shai Brown</u>  |  | <b>Date/Time:</b><br><u>4/24/23 0534</u>   |                          | <b>Date/Time:</b><br><u>4-26-23 1039</u>  |   | <b>Date/Time:</b><br><u>4-26-23 1039</u> |  |   |  |  |  |
| <b>Reinquired by:</b><br><u>Shai Brown</u>  |  | <b>Date/Time:</b><br><u>4/24/23 0534</u>   |                          | <b>Date/Time:</b><br><u>4-26-23 1039</u>  |   | <b>Date/Time:</b><br><u>4-26-23 1039</u> |  |   |  |  |  |
| <b>Custody Seals Intact:</b><br><input type="checkbox"/> Yes <input type="checkbox"/> No  |  | <b>Cooler Temperature(s) °C and Other Remarks:</b>   |                          |   |   |  |  |   |  |  |  |



ORIGIN ID:PNSA (850) 336-0192  
SHIP DATE: 24APR23  
ACTWGT: 67.35 LB  
CAD: 6994795/55FE2401  
DIVS: 24x13x13 IN  
BILL THIRD PARTY

CA PITTSBURGH LAB  
DR PA 15238  
STATES US

JFINS

301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238

(412) 963-7068

Thermometer ID 44 20

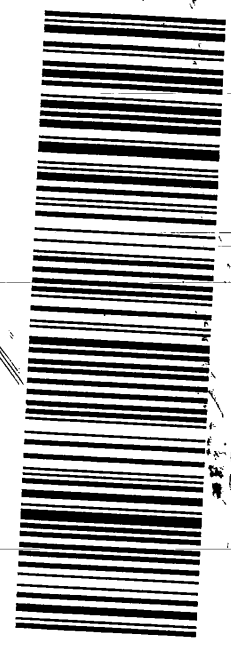
CF 0.2 Initials MR

PT-WI-SR-001 effective 11/8/18



TUE - 25 APR 10:30A  
PRIORITY OVERNIGHT

15238  
PA-US PIT



180-155616 Waybill

SHIP TO  
ACTING  
CAD  
DIVS  
BILL

ORIGIN ID:PNSA (850) 336-0192  
TESTAMERICA PITTSBURGH LAB  
SEE CHEERS 5 BEFORE BILL  
301 ALPHA DR  
PITTSBURGH, PA 15238  
UNITED STATES US

TO EUROFINS

301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238

(412) 963-7068

Thermometer ID 27 20

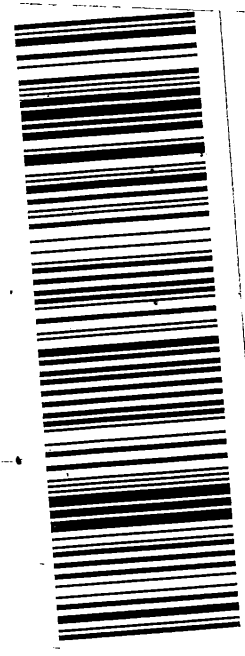
CF 0.2 Initials MR

PT-WI-SR-001 effective 11/8/18



TUE - 25 APR 10:30A  
PRIORITY OVERNIGHT

15238  
PA-US PI



1 of 3  
TRK# 3974-1493-4755  
0201  
## MASTER ##

XN AGCA

3 of 3  
MPS# 3974 1493 4777  
0263  
Mstr# 3974 1493 4755

XN AGCA



ORIGIN ID: PNSA (850) 336-0192  
TESTAMERICA PITTSBURGH LAB  
SEE CHECKS 5 BEFORE BILL  
301 ALPHA DR  
PITTSBURGH, PA 15238  
UNITED STATES US

TO EUROFINS

301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238

(412) 963-7058  
NO:  
PO:

REF:

DEPT:

UNRECORDED THERMOMETER ID 49 20

Thermometer ID

CF 0.2 Initials ML

PT-WI-SR-001 effective 11/8/18

FedEx  
Express



1232023040501

2 of 3

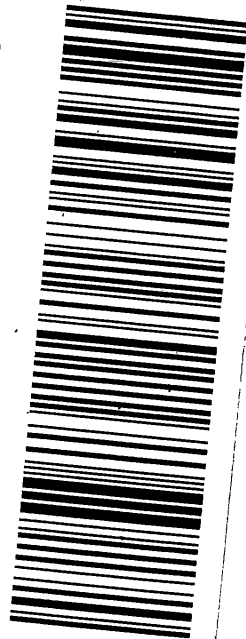
MPS# 3974 1493 4766

Mstr# 3974 1493 4755

**XN AGCA**

TUE - 25 APR 10:30A  
PRIORITY OVERNIGHT

15238  
PA-US PIT



10:30  
04:14  
09:19

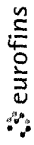
RT 198  
EZ 197

156297-435 PRIORITY EXP 03/24

- 1
- 2
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- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

**Eurofins Pittsburgh**  
 301 Alpha Drive RIDC Park  
 Pittsburgh PA 15238  
 Phone 412-963-7058 Fax: 412-963-2468

# Chain of Custody Record



Environmental Testing

|   |                     |   |   |  |  |
|---|---------------------|---|---|--|--|
| <b>Client Information (Sub Contract Lab)</b>  |                     | Lab P.M.  | Brown Shali                               | Carrier Tracking No(s)   | COC No   |
| Shipping/Receiving  |                     | Phone:  | E-Mail: Brown Shali                       | State of Origin: Mississippi   | 180-485778 1   |
| Company: Eurofins Environment Testing Southeast   |                     | Accreditations Required (See note)                  |   | Job #:   | 180-155616-1   |
| Address: 5102 LaRoche Avenue  |                     | Due Date Requested: 5/9/2023                        |   | Preservation Codes:<br>M - Hexane<br>N - None<br>O - As <sub>2</sub> O <sub>3</sub><br>P - Na <sub>2</sub> OAS<br>Q - Na <sub>2</sub> SO <sub>3</sub><br>R - Na <sub>2</sub> SO <sub>4</sub><br>S - H <sub>2</sub> SO <sub>4</sub><br>T - TSP Dodecahydrate<br>U - Acetone<br>V - MCAA<br>W - pH 4-5<br>X - Trizma<br>Z - other (specify)<br>Other |  |
| City: Savannah  | State: GA           | Zip: 31404  | PO #: 912-354-7858(Tel) 912-352-0165(Fax) | Analysis Requested   |  |
| Plant: Daniel Ash Pond B  | Project #: 18020047 | SSOW#:  | Total Number of Containers                |  |  |
| Site:   | Sample Date         |   | Sample Time                               | Sample Type (C=Comp, G=grab)   | Matrix (W=water, S=solid, O=soil, T=TB, Tissue, AA=AI) |
|   | 4/20/23             | 13:26   | Central                                   | Water  | Water  |
| BAW-1 (180-155616-1)  | 4/20/23             | 16:55   | Central                                   | Water  | Water  |
| BAW-2A (180-155616-2)   | 4/20/23             | 18:08   | Central                                   | Water  | Water  |
| BAW-3 (180-155616-3)  | 4/21/23             | 09:50   | Central                                   | Water  | Water  |
| BAW-4 (180-155616-4)  | 4/21/23             | 11:15   | Central                                   | Water  | Water  |
| BAW-5 (180-155616-5)  | 4/21/23             | 18:28   | Central                                   | Water  | Water  |
| BAW-7 (180-155616-6)  | 4/21/23             | 14:23   | Central                                   | Water  | Water  |
| BAW-8 (180-155616-7)  | 4/21/23             | 13:00   | Central                                   | Water  | Water  |
| BAW-9 (180-155616-8)  | 4/20/23             | 15:55   | Central                                   | Water  | Water  |
| DUP-01 (180-155616-9)   |                     |   |   |  |  |
| <p>Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analysis &amp; accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.</p> |                     |   |   |  |  |
| <b>Possible Hazard Identification</b>   |                     |   |   |  |  |
| Unconfirmed   |                     |   |   |  |  |
| Deliverable Requested I II III, IV Other (specify) Primary Deliverable Rank: 2  |                     |   |   |  |  |
| Empty Kit Relinquished by   |                     |   |   |  |  |
| Relinquished by   |                     | Date/Time   | Company                                   | Received by  | Date/Time  |
| Relinquished by   |                     | 4/20/23 13:00                                       | Brown Company                             | Received by  | 4/29/23 10:30  |
| Relinquished by   |                     |   | Company                                   | Received by  |  |
| Custody Seals Intact:   |                     | Cooler Temperature(s) °C and Other Remarks: 2.4/3.0 |   |  |  |
| Δ Yes Δ No  |                     |   |   |  |  |



**Eurofins Pittsburgh**

301 Alpha Drive RIDC Park  
Pittsburgh PA 15238  
Phone 412-963-7058 Fax: 412-963-2468

# Chain of Custody Record



Environment Testing

| Client Information (Sub Contract Lab)           |                    | Sampler                                     |              | Lab P/N                      |                                     | Carrier Tracking No(s)  |                      |
|---|--------------------|---|--------------|------------------------------|-------------------------------------|---|----------------------|
| Client Contact                                  | Shipping/Receiving | Phone:                                      | Brown, Shail | Brown, Shail                 | E-Mail: Shail.Brown@et.eurofins.com | State of Origin: Mississippi  | COC No. 180-485778 2 |
| Company: Eurofins Environment Testing Southeast |                    |   |              |                              |                                     |   |                      |
| Address: 5102 LaRoche Avenue                    |                    | PO #: 912-354-7858 (Tel) 912-352-0165 (Fax) |              | Project #: 18020047          |                                     | Page 2 of 2   |                      |
| City: Savannah                                  |                    | WO #:                                       |              | SSOW#:                       |                                     | Job #: 180-155616-1   |                      |
| State, Zip: GA, 31404                           |                    | Project Name: Plant Daniel Ash Pond B       |              | Site:                        |                                     | Preservation Codes:   |                      |
| Phone:  |                    | Email:                                      |              | Due Date Requested: 5/9/2023 |                                     | M - Hexane<br>N - None<br>O - ASHCO2<br>P - Na2CO3<br>Q - Na2SO3<br>R - Na2S2O3<br>S - H2SO4<br>T - TSP Dodecahydrate<br>U - Acetone<br>V - MCAA<br>W - pH 4-5<br>X - Trizma<br>Y - Trizma<br>Z - other (specify) |                      |
| TAT Requested (days):                           |                    | Sample Date                                 |              | Sample Time                  |                                     | Sample Type (C=comp, G=grab)  |                      |
| Matrix (W=water, S=solid, O=oil)                |                    | Preservation Code:                          |              | Perform M/SMSD (Yes or No)   |                                     | Field Filtered Sample (Yes or No)   |                      |
| Matrix (W=water, S=solid, O=oil)                |                    | Sample Time                                 |              | Perform M/SMSD (Yes or No)   |                                     | Field Filtered Sample (Yes or No)   |                      |
| DUP-02 (180-155616-10)                          | 4/21/23            | 10:15 Central                               | Water        | X                            | X                                   | X   | X                    |
| FB-01 (180-155616-11)                           | 4/21/23            | 12:08 Central                               | Water        | X                            | X                                   | X   | X                    |
| EB-01 (180-155616-12)                           | 4/21/23            | 12:14 Central                               | Water        | X                            | X                                   | X   | X                    |
| Total Number of containers                      |                    |   |              |                              |                                     |   |                      |
| Special Instructions/Note:                      |                    |   |              |                              |                                     |   |                      |

Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.

**Possible Hazard Identification**  
 Unconfirmed Deliverable Requested I, II, III, IV Other (specify) Primary Deliverable Rank: 2  
 Empty Kit Relinquished by:   
 Relinquished by:   
 Relinquished by:   
 Relinquished by:   
 Custody Seals Intact:   
 Δ Yes Δ No



## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-155616-1

**Login Number: 155616**

**List Source: Eurofins Pittsburgh**

**List Number: 1**

**Creator: Abernathy, Eric L**

| Question   | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A    |         |
| The cooler's custody seal, if present, is intact.                                | True   |         |
| Sample custody seals, if present, are intact.                                    | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |         |
| Samples were received on ice.  | True   |         |
| Cooler Temperature is acceptable.  | True   |         |
| Cooler Temperature is recorded.  | True   |         |
| COC is present.  | True   |         |
| COC is filled out in ink and legible.  | True   |         |
| COC is filled out with all pertinent information.                                | True   |         |
| Is the Field Sampler's name present on COC?                                      | True   |         |
| There are no discrepancies between the containers received and the COC.          | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)    | True   |         |
| Sample containers have legible labels.   | True   |         |
| Containers are not broken or leaking.  | True   |         |
| Sample collection date/times are provided.                                       | True   |         |
| Appropriate sample containers are used.  | True   |         |
| Sample bottles are completely filled.  | True   |         |
| Sample Preservation Verified.  | True   |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | True   |         |
| Multiphasic samples are not present.   | True   |         |
| Samples do not require splitting or compositing.                                 | True   |         |
| Residual Chlorine Checked.   | N/A    |         |

## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-155616-1

**Login Number: 155616**

**List Number: 2**

**Creator: Givens, Keshia**

**List Source: Eurofins Savannah**

**List Creation: 04/29/23 11:57 AM**

| Question  | Answer | Comment |
|---|--------|---------|
| Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.      | N/A    |         |
| The cooler's custody seal, if present, is intact.   | True   |         |
| Sample custody seals, if present, are intact.   | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.                      | True   |         |
| Samples were received on ice.   | True   |         |
| Cooler Temperature is acceptable.   | True   |         |
| Cooler Temperature is recorded.   | True   |         |
| COC is present.   | True   |         |
| COC is filled out in ink and legible.   | True   |         |
| COC is filled out with all pertinent information.   | True   |         |
| Is the Field Sampler's name present on COC?   | N/A    |         |
| There are no discrepancies between the containers received and the COC.                             | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)                       | True   |         |
| Sample containers have legible labels.  | True   |         |
| Containers are not broken or leaking.   | True   |         |
| Sample collection date/times are provided.  | True   |         |
| Appropriate sample containers are used.   | True   |         |
| Sample bottles are completely filled.   | True   |         |
| Sample Preservation Verified.   | N/A    |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs                    | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4"). | N/A    |         |
| Multiphasic samples are not present.  | True   |         |
| Samples do not require splitting or compositing.  | True   |         |
| Residual Chlorine Checked.  | N/A    |         |



# ANALYTICAL REPORT

## PREPARED FOR

Attn: Robert (Trey) Singleton  
Southern Company  
3535 Colonnade Parkway  
Bin S 530 EC  
Birmingham, Alabama 35243

Generated 6/1/2023 3:34:49 PM

## JOB DESCRIPTION

Plant Daniel Ash Pond B

## JOB NUMBER

180-155616-2



# Eurofins Pittsburgh

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

PA Lab ID: 02-00416

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Pittsburgh Project Manager.

## Authorization



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Authorized for release by  
Shali Brown, Project Manager II  
[Shali.Brown@et.eurofinsus.com](mailto:Shali.Brown@et.eurofinsus.com)  
(615)301-5031



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# Case Narrative

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-2

## Job ID: 180-155616-2

### Laboratory: Eurofins Pittsburgh

#### Narrative

#### Job Narrative 180-155616-2

#### Receipt

The samples were received on 4/26/2023 10:39 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.5°C, 4.2°C and 4.7°C

#### Gas Flow Proportional Counter

Method 9315\_Ra226: Radium-226 Prep Batch 160-610670 Insufficient sample volume was available to perform a sample duplicate for the following samples: BAW-1 (180-155616-1), BAW-2A (180-155616-2), BAW-3 (180-155616-3), BAW-4 (180-155616-4), BAW-5 (180-155616-5), BAW-9 (180-155616-8), DUP-01 (180-155616-9), DUP-02 (180-155616-10), FB-01 (180-155616-11) and EB-01 (180-155616-12). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method 9315\_Ra226: Radium-226 prep batch 160-610670: Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. BAW-1 (180-155616-1), BAW-2A (180-155616-2), BAW-3 (180-155616-3), BAW-4 (180-155616-4), BAW-5 (180-155616-5), BAW-7 (180-155616-6), BAW-8 (180-155616-7), BAW-9 (180-155616-8), DUP-01 (180-155616-9), DUP-02 (180-155616-10), FB-01 (180-155616-11), EB-01 (180-155616-12), (LCS 160-610670/2-A), (LCSD 160-610670/3-A) and (MB 160-610670/1-A)

Method 9320\_Ra228: Samples were prepared at a reduced aliquot due to insufficient sample volume.

Method 9320\_Ra228: Radium-228 Prep Batch 160-610681 Insufficient sample volume was available to perform a sample duplicate for the following samples: BAW-1 (180-155616-1), BAW-2A (180-155616-2), BAW-3 (180-155616-3), BAW-4 (180-155616-4), BAW-5 (180-155616-5), BAW-9 (180-155616-8), DUP-01 (180-155616-9), DUP-02 (180-155616-10), FB-01 (180-155616-11) and EB-01 (180-155616-12). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method 9320\_Ra228: Radium-228 prep batch 160-610681: Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. BAW-1 (180-155616-1), BAW-2A (180-155616-2), BAW-3 (180-155616-3), BAW-4 (180-155616-4), BAW-5 (180-155616-5), BAW-7 (180-155616-6), BAW-8 (180-155616-7), BAW-9 (180-155616-8), DUP-01 (180-155616-9), DUP-02 (180-155616-10), FB-01 (180-155616-11), EB-01 (180-155616-12), (LCS 160-610681/2-A), (LCSD 160-610681/3-A) and (MB 160-610681/1-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### Rad

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

# Definitions/Glossary

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-2

## Qualifiers

### Rad

| Qualifier | Qualifier Description                           |
|-----------|---|
| U         | Result is less than the sample detection limit. |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|---|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery  |
| CFL            | Contains Free Liquid  |
| CFU            | Colony Forming Unit   |
| CNF            | Contains No Free Liquid   |
| DER            | Duplicate Error Ratio (normalized absolute difference)  |
| Dil Fac        | Dilution Factor   |
| DL             | Detection Limit (DoD/DOE)   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)   |
| EDL            | Estimated Detection Limit (Dioxin)  |
| LOD            | Limit of Detection (DoD/DOE)  |
| LOQ            | Limit of Quantitation (DoD/DOE)   |
| MCL            | EPA recommended "Maximum Contaminant Level"   |
| MDA            | Minimum Detectable Activity (Radiochemistry)  |
| MDC            | Minimum Detectable Concentration (Radiochemistry)   |
| MDL            | Method Detection Limit  |
| ML             | Minimum Level (Dioxin)  |
| MPN            | Most Probable Number  |
| MQL            | Method Quantitation Limit   |
| NC             | Not Calculated  |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)  |
| NEG            | Negative / Absent   |
| POS            | Positive / Present  |
| PQL            | Practical Quantitation Limit  |
| PRES           | Presumptive   |
| QC             | Quality Control   |
| RER            | Relative Error Ratio (Radiochemistry)   |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)   |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)   |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)   |
| TNTC           | Too Numerous To Count   |

# Accreditation/Certification Summary

Client: Southern Company  
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-2

## Laboratory: Eurofins St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority                | Program                                 | Identification Number      | Expiration Date |
|--------------------------|---|----------------------------|-----------------|
| Alaska (UST)             | State                                   | 20-001                     | 05-06-25        |
| ANAB                     | Dept. of Defense ELAP                   | L2305                      | 04-06-25        |
| ANAB                     | Dept. of Energy                         | L2305.01                   | 04-06-25        |
| ANAB                     | ISO/IEC 17025                           | L2305                      | 04-06-25        |
| Arizona                  | State                                   | AZ0813                     | 12-08-23        |
| California               | Los Angeles County Sanitation Districts | 10259                      | 06-30-22 *      |
| California               | State                                   | 2886                       | 06-30-23        |
| Florida                  | NELAP                                   | E87689                     | 06-30-23        |
| HI - RadChem Recognition | State                                   | n/a                        | 06-30-23        |
| Illinois                 | NELAP                                   | 200023                     | 11-30-23        |
| Iowa                     | State                                   | 373                        | 12-01-24        |
| Kansas                   | NELAP                                   | E-10236                    | 10-31-23        |
| Kentucky (DW)            | State                                   | KY90125                    | 12-31-23        |
| Kentucky (WW)            | State                                   | KY90125 (Permit KY0004049) | 12-31-23        |
| Louisiana (All)          | NELAP                                   | 04080                      | 06-30-23        |
| Louisiana (DW)           | State                                   | LA011                      | 12-31-23        |
| Maryland                 | State                                   | 310                        | 09-30-23        |
| MI - RadChem Recognition | State                                   | 9005                       | 06-30-23        |
| Missouri                 | State                                   | 780                        | 06-30-25        |
| Nevada                   | State                                   | MO000542020-1              | 07-31-23        |
| New Jersey               | NELAP                                   | MO002                      | 06-30-23        |
| New York                 | NELAP                                   | 11616                      | 03-31-24        |
| North Carolina (DW)      | State                                   | 29700                      | 07-31-23        |
| North Dakota             | State                                   | R-207                      | 06-30-23        |
| Oklahoma                 | NELAP                                   | 9997                       | 08-31-23        |
| Oregon                   | NELAP                                   | 4157                       | 09-01-23        |
| Pennsylvania             | NELAP                                   | 68-00540                   | 02-28-24        |
| South Carolina           | State                                   | 85002001                   | 06-30-23        |
| Texas                    | NELAP                                   | T104704193                 | 07-31-23        |
| US Fish & Wildlife       | US Federal Programs                     | 058448                     | 07-31-23        |
| USDA                     | US Federal Programs                     | P330-17-00028              | 05-18-26        |
| Utah                     | NELAP                                   | MO000542021-14             | 07-31-23        |
| Virginia                 | NELAP                                   | 10310                      | 06-14-23        |
| Washington               | State                                   | C592                       | 08-30-23        |
| West Virginia DEP        | State                                   | 381                        | 10-31-23        |

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Sample Summary

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-2

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 180-155616-1  | BAW-1            | Water  | 04/20/23 13:26 | 04/26/23 10:39 |
| 180-155616-2  | BAW-2A           | Water  | 04/20/23 16:55 | 04/26/23 10:39 |
| 180-155616-3  | BAW-3            | Water  | 04/20/23 18:08 | 04/26/23 10:39 |
| 180-155616-4  | BAW-4            | Water  | 04/21/23 09:50 | 04/26/23 10:39 |
| 180-155616-5  | BAW-5            | Water  | 04/21/23 11:15 | 04/26/23 10:39 |
| 180-155616-6  | BAW-7            | Water  | 04/21/23 18:28 | 04/26/23 10:39 |
| 180-155616-7  | BAW-8            | Water  | 04/21/23 14:23 | 04/26/23 10:39 |
| 180-155616-8  | BAW-9            | Water  | 04/21/23 13:00 | 04/26/23 10:39 |
| 180-155616-9  | DUP-01           | Water  | 04/20/23 15:55 | 04/26/23 10:39 |
| 180-155616-10 | DUP-02           | Water  | 04/21/23 10:15 | 04/26/23 10:39 |
| 180-155616-11 | FB-01            | Water  | 04/21/23 12:08 | 04/26/23 10:39 |
| 180-155616-12 | EB-01            | Water  | 04/21/23 12:14 | 04/26/23 10:39 |

- 1
- 2
- 3
- 4
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- 10
- 11
- 12
- 13

# Method Summary

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-2

| Method      | Method Description                                     | Protocol | Laboratory |
|-------------|--|----------|------------|
| 9315        | Radium-226 (GFPC)                                      | SW846    | EET SL     |
| 9320        | Radium-228 (GFPC)                                      | SW846    | EET SL     |
| Ra226_Ra228 | Combined Radium-226 and Radium-228                     | TAL-STL  | EET SL     |
| PrecSep_0   | Preparation, Precipitate Separation                    | None     | EET SL     |
| PrecSep-21  | Preparation, Precipitate Separation (21-Day In-Growth) | None     | EET SL     |

#### Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

#### Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

# Lab Chronicle

Client: Southern Company  
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-2

## Client Sample ID: BAW-1

## Lab Sample ID: 180-155616-1

Date Collected: 04/20/23 13:26

Matrix: Water

Date Received: 04/26/23 10:39

| Prep Type               | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA                | Prep       | PrecSep-21   |     |            | 955.13 mL      | 1.0 g        | 610670       | 05/09/23 09:57       | KAC     | EET SL |
| Total/NA                | Analysis   | 9315         |     | 1          |                |              | 613861       | 05/31/23 12:46       | SCB     | EET SL |
| Instrument ID: GFPCBLUE |            |              |     |            |                |              |              |                      |         |        |
| Total/NA                | Prep       | PrecSep_0    |     |            | 955.13 mL      | 1.0 g        | 610681       | 05/09/23 11:26       | KAC     | EET SL |
| Total/NA                | Analysis   | 9320         |     | 1          |                |              | 613346       | 05/26/23 11:35       | SCB     | EET SL |
| Instrument ID: GFPCBLUE |            |              |     |            |                |              |              |                      |         |        |
| Total/NA                | Analysis   | Ra226_Ra228  |     | 1          |                |              | 614185       | 06/01/23 15:07       | SCB     | EET SL |
| Instrument ID: NOEQUIP  |            |              |     |            |                |              |              |                      |         |        |

## Client Sample ID: BAW-2A

## Lab Sample ID: 180-155616-2

Date Collected: 04/20/23 16:55

Matrix: Water

Date Received: 04/26/23 10:39

| Prep Type                 | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA                  | Prep       | PrecSep-21   |     |            | 999.91 mL      | 1.0 g        | 610670       | 05/09/23 09:57       | KAC     | EET SL |
| Total/NA                  | Analysis   | 9315         |     | 1          |                |              | 613938       | 05/31/23 12:51       | SCB     | EET SL |
| Instrument ID: GFPCPURPLE |            |              |     |            |                |              |              |                      |         |        |
| Total/NA                  | Prep       | PrecSep_0    |     |            | 999.91 mL      | 1.0 g        | 610681       | 05/09/23 11:26       | KAC     | EET SL |
| Total/NA                  | Analysis   | 9320         |     | 1          |                |              | 613346       | 05/26/23 11:35       | SCB     | EET SL |
| Instrument ID: GFPCBLUE   |            |              |     |            |                |              |              |                      |         |        |
| Total/NA                  | Analysis   | Ra226_Ra228  |     | 1          |                |              | 614185       | 06/01/23 15:07       | SCB     | EET SL |
| Instrument ID: NOEQUIP    |            |              |     |            |                |              |              |                      |         |        |

## Client Sample ID: BAW-3

## Lab Sample ID: 180-155616-3

Date Collected: 04/20/23 18:08

Matrix: Water

Date Received: 04/26/23 10:39

| Prep Type                 | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA                  | Prep       | PrecSep-21   |     |            | 995.21 mL      | 1.0 g        | 610670       | 05/09/23 09:57       | KAC     | EET SL |
| Total/NA                  | Analysis   | 9315         |     | 1          |                |              | 613938       | 05/31/23 12:52       | SCB     | EET SL |
| Instrument ID: GFPCPURPLE |            |              |     |            |                |              |              |                      |         |        |
| Total/NA                  | Prep       | PrecSep_0    |     |            | 995.21 mL      | 1.0 g        | 610681       | 05/09/23 11:26       | KAC     | EET SL |
| Total/NA                  | Analysis   | 9320         |     | 1          |                |              | 613346       | 05/26/23 11:35       | SCB     | EET SL |
| Instrument ID: GFPCBLUE   |            |              |     |            |                |              |              |                      |         |        |
| Total/NA                  | Analysis   | Ra226_Ra228  |     | 1          |                |              | 614185       | 06/01/23 15:07       | SCB     | EET SL |
| Instrument ID: NOEQUIP    |            |              |     |            |                |              |              |                      |         |        |

## Client Sample ID: BAW-4

## Lab Sample ID: 180-155616-4

Date Collected: 04/21/23 09:50

Matrix: Water

Date Received: 04/26/23 10:39

| Prep Type                 | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA                  | Prep       | PrecSep-21   |     |            | 994.48 mL      | 1.0 g        | 610670       | 05/09/23 09:57       | KAC     | EET SL |
| Total/NA                  | Analysis   | 9315         |     | 1          |                |              | 613938       | 05/31/23 12:52       | SCB     | EET SL |
| Instrument ID: GFPCPURPLE |            |              |     |            |                |              |              |                      |         |        |

Eurofins Pittsburgh



# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-2

**Client Sample ID: BAW-4**  
**Date Collected: 04/21/23 09:50**  
**Date Received: 04/26/23 10:39**

**Lab Sample ID: 180-155616-4**  
**Matrix: Water**

| Prep Type               | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA                | Prep       | PrecSep_0    |     |            | 994.48 mL      | 1.0 g        | 610681       | 05/09/23 11:26       | KAC     | EET SL |
| Total/NA                | Analysis   | 9320         |     | 1          |                |              | 613346       | 05/26/23 11:35       | SCB     | EET SL |
| Instrument ID: GFPCBLUE |            |              |     |            |                |              |              |                      |         |        |
| Total/NA                | Analysis   | Ra226_Ra228  |     | 1          |                |              | 614185       | 06/01/23 15:07       | SCB     | EET SL |
| Instrument ID: NOEQUIP  |            |              |     |            |                |              |              |                      |         |        |

**Client Sample ID: BAW-5**  
**Date Collected: 04/21/23 11:15**  
**Date Received: 04/26/23 10:39**

**Lab Sample ID: 180-155616-5**  
**Matrix: Water**

| Prep Type                 | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA                  | Prep       | PrecSep-21   |     |            | 953.95 mL      | 1.0 g        | 610670       | 05/09/23 09:57       | KAC     | EET SL |
| Total/NA                  | Analysis   | 9315         |     | 1          |                |              | 613938       | 05/31/23 12:52       | SCB     | EET SL |
| Instrument ID: GFPCPURPLE |            |              |     |            |                |              |              |                      |         |        |
| Total/NA                  | Prep       | PrecSep_0    |     |            | 953.95 mL      | 1.0 g        | 610681       | 05/09/23 11:26       | KAC     | EET SL |
| Total/NA                  | Analysis   | 9320         |     | 1          |                |              | 613346       | 05/26/23 11:35       | SCB     | EET SL |
| Instrument ID: GFPCBLUE   |            |              |     |            |                |              |              |                      |         |        |
| Total/NA                  | Analysis   | Ra226_Ra228  |     | 1          |                |              | 614185       | 06/01/23 15:07       | SCB     | EET SL |
| Instrument ID: NOEQUIP    |            |              |     |            |                |              |              |                      |         |        |

**Client Sample ID: BAW-7**  
**Date Collected: 04/21/23 18:28**  
**Date Received: 04/26/23 10:39**

**Lab Sample ID: 180-155616-6**  
**Matrix: Water**

| Prep Type                 | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA                  | Prep       | PrecSep-21   |     |            | 745.82 mL      | 1.0 g        | 610670       | 05/09/23 09:57       | KAC     | EET SL |
| Total/NA                  | Analysis   | 9315         |     | 1          |                |              | 613938       | 05/31/23 12:52       | SCB     | EET SL |
| Instrument ID: GFPCPURPLE |            |              |     |            |                |              |              |                      |         |        |
| Total/NA                  | Prep       | PrecSep_0    |     |            | 745.82 mL      | 1.0 g        | 610681       | 05/09/23 11:26       | KAC     | EET SL |
| Total/NA                  | Analysis   | 9320         |     | 1          |                |              | 613345       | 05/26/23 11:36       | SCB     | EET SL |
| Instrument ID: GFPCPURPLE |            |              |     |            |                |              |              |                      |         |        |
| Total/NA                  | Analysis   | Ra226_Ra228  |     | 1          |                |              | 614185       | 06/01/23 15:07       | SCB     | EET SL |
| Instrument ID: NOEQUIP    |            |              |     |            |                |              |              |                      |         |        |

**Client Sample ID: BAW-8**  
**Date Collected: 04/21/23 14:23**  
**Date Received: 04/26/23 10:39**

**Lab Sample ID: 180-155616-7**  
**Matrix: Water**

| Prep Type                 | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA                  | Prep       | PrecSep-21   |     |            | 750.19 mL      | 1.0 g        | 610670       | 05/09/23 09:57       | KAC     | EET SL |
| Total/NA                  | Analysis   | 9315         |     | 1          |                |              | 613860       | 05/31/23 14:54       | SCB     | EET SL |
| Instrument ID: GFPCRED    |            |              |     |            |                |              |              |                      |         |        |
| Total/NA                  | Prep       | PrecSep_0    |     |            | 750.19 mL      | 1.0 g        | 610681       | 05/09/23 11:26       | KAC     | EET SL |
| Total/NA                  | Analysis   | 9320         |     | 1          |                |              | 613345       | 05/26/23 11:36       | SCB     | EET SL |
| Instrument ID: GFPCPURPLE |            |              |     |            |                |              |              |                      |         |        |

Eurofins Pittsburgh

# Lab Chronicle

Client: Southern Company  
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-2

**Client Sample ID: BAW-8**  
**Date Collected: 04/21/23 14:23**  
**Date Received: 04/26/23 10:39**

**Lab Sample ID: 180-155616-7**  
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1          |                |              | 614185       | 06/01/23 15:07       | SCB     | EET SL |

**Client Sample ID: BAW-9**  
**Date Collected: 04/21/23 13:00**  
**Date Received: 04/26/23 10:39**

**Lab Sample ID: 180-155616-8**  
**Matrix: Water**

| Prep Type                 | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA                  | Prep       | PrecSep-21   |     |            | 945.64 mL      | 1.0 g        | 610670       | 05/09/23 09:57       | KAC     | EET SL |
| Total/NA                  | Analysis   | 9315         |     | 1          |                |              | 613860       | 05/31/23 14:54       | SCB     | EET SL |
| Instrument ID: GFPCRED    |            |              |     |            |                |              |              |                      |         |        |
| Total/NA                  | Prep       | PrecSep_0    |     |            | 945.64 mL      | 1.0 g        | 610681       | 05/09/23 11:26       | KAC     | EET SL |
| Total/NA                  | Analysis   | 9320         |     | 1          |                |              | 613345       | 05/26/23 11:36       | SCB     | EET SL |
| Instrument ID: GFPCPURPLE |            |              |     |            |                |              |              |                      |         |        |
| Total/NA                  | Analysis   | Ra226_Ra228  |     | 1          |                |              | 614185       | 06/01/23 15:07       | SCB     | EET SL |
| Instrument ID: NOEQUIP    |            |              |     |            |                |              |              |                      |         |        |

**Client Sample ID: DUP-01**  
**Date Collected: 04/20/23 15:55**  
**Date Received: 04/26/23 10:39**

**Lab Sample ID: 180-155616-9**  
**Matrix: Water**

| Prep Type                 | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA                  | Prep       | PrecSep-21   |     |            | 993.04 mL      | 1.0 g        | 610670       | 05/09/23 09:57       | KAC     | EET SL |
| Total/NA                  | Analysis   | 9315         |     | 1          |                |              | 613860       | 05/31/23 14:54       | SCB     | EET SL |
| Instrument ID: GFPCRED    |            |              |     |            |                |              |              |                      |         |        |
| Total/NA                  | Prep       | PrecSep_0    |     |            | 993.04 mL      | 1.0 g        | 610681       | 05/09/23 11:26       | KAC     | EET SL |
| Total/NA                  | Analysis   | 9320         |     | 1          |                |              | 613345       | 05/26/23 11:37       | SCB     | EET SL |
| Instrument ID: GFPCPURPLE |            |              |     |            |                |              |              |                      |         |        |
| Total/NA                  | Analysis   | Ra226_Ra228  |     | 1          |                |              | 614185       | 06/01/23 15:07       | SCB     | EET SL |
| Instrument ID: NOEQUIP    |            |              |     |            |                |              |              |                      |         |        |

**Client Sample ID: DUP-02**  
**Date Collected: 04/21/23 10:15**  
**Date Received: 04/26/23 10:39**

**Lab Sample ID: 180-155616-10**  
**Matrix: Water**

| Prep Type                 | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA                  | Prep       | PrecSep-21   |     |            | 991.92 mL      | 1.0 g        | 610670       | 05/09/23 09:57       | KAC     | EET SL |
| Total/NA                  | Analysis   | 9315         |     | 1          |                |              | 613860       | 05/31/23 14:57       | SCB     | EET SL |
| Instrument ID: GFPCRED    |            |              |     |            |                |              |              |                      |         |        |
| Total/NA                  | Prep       | PrecSep_0    |     |            | 991.92 mL      | 1.0 g        | 610681       | 05/09/23 11:26       | KAC     | EET SL |
| Total/NA                  | Analysis   | 9320         |     | 1          |                |              | 613345       | 05/26/23 11:37       | SCB     | EET SL |
| Instrument ID: GFPCPURPLE |            |              |     |            |                |              |              |                      |         |        |
| Total/NA                  | Analysis   | Ra226_Ra228  |     | 1          |                |              | 614185       | 06/01/23 15:07       | SCB     | EET SL |
| Instrument ID: NOEQUIP    |            |              |     |            |                |              |              |                      |         |        |

# Lab Chronicle

Client: Southern Company  
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-2

**Client Sample ID: FB-01**

**Lab Sample ID: 180-155616-11**

Date Collected: 04/21/23 12:08

Matrix: Water

Date Received: 04/26/23 10:39

| Prep Type                 | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA                  | Prep       | PrecSep-21   |     |            | 995.52 mL      | 1.0 g        | 610670       | 05/09/23 09:57       | KAC     | EET SL |
| Total/NA                  | Analysis   | 9315         |     | 1          |                |              | 613860       | 05/31/23 14:57       | SCB     | EET SL |
| Instrument ID: GFPCRED    |            |              |     |            |                |              |              |                      |         |        |
| Total/NA                  | Prep       | PrecSep_0    |     |            | 995.52 mL      | 1.0 g        | 610681       | 05/09/23 11:26       | KAC     | EET SL |
| Total/NA                  | Analysis   | 9320         |     | 1          |                |              | 613345       | 05/26/23 11:37       | SCB     | EET SL |
| Instrument ID: GFPCPURPLE |            |              |     |            |                |              |              |                      |         |        |
| Total/NA                  | Analysis   | Ra226_Ra228  |     | 1          |                |              | 614185       | 06/01/23 15:07       | SCB     | EET SL |
| Instrument ID: NOEQUIP    |            |              |     |            |                |              |              |                      |         |        |

**Client Sample ID: EB-01**

**Lab Sample ID: 180-155616-12**

Date Collected: 04/21/23 12:14

Matrix: Water

Date Received: 04/26/23 10:39

| Prep Type                 | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA                  | Prep       | PrecSep-21   |     |            | 997.67 mL      | 1.0 g        | 610670       | 05/09/23 09:57       | KAC     | EET SL |
| Total/NA                  | Analysis   | 9315         |     | 1          |                |              | 613860       | 05/31/23 14:57       | SCB     | EET SL |
| Instrument ID: GFPCRED    |            |              |     |            |                |              |              |                      |         |        |
| Total/NA                  | Prep       | PrecSep_0    |     |            | 997.67 mL      | 1.0 g        | 610681       | 05/09/23 11:26       | KAC     | EET SL |
| Total/NA                  | Analysis   | 9320         |     | 1          |                |              | 613347       | 05/26/23 11:38       | SCB     | EET SL |
| Instrument ID: GFPCORANGE |            |              |     |            |                |              |              |                      |         |        |
| Total/NA                  | Analysis   | Ra226_Ra228  |     | 1          |                |              | 614185       | 06/01/23 15:07       | SCB     | EET SL |
| Instrument ID: NOEQUIP    |            |              |     |            |                |              |              |                      |         |        |

**Laboratory References:**

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

**Analyst References:**

Lab: EET SL

Batch Type: Prep

KAC = Kevin Cox

Batch Type: Analysis

SCB = Sarah Bernsen

# Client Sample Results

Client: Southern Company  
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-2

**Client Sample ID: BAW-1**

**Lab Sample ID: 180-155616-1**

Date Collected: 04/20/23 13:26

Matrix: Water

Date Received: 04/26/23 10:39

**Method: SW846 9315 - Radium-226 (GFPC)**

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.241  |           | 0.142                       | 0.144                       | 1.00 | 0.196 | pCi/L | 05/09/23 09:57 | 05/31/23 12:46 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 86.4   |           | 30 - 110                    |                             |      |       |       | 05/09/23 09:57 | 05/31/23 12:46 | 1       |

**Method: SW846 9320 - Radium-228 (GFPC)**

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.406  | U         | 0.383                       | 0.385                       | 1.00 | 0.610 | pCi/L | 05/09/23 11:26 | 05/26/23 11:35 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 86.4   |           | 30 - 110                    |                             |      |       |       | 05/09/23 11:26 | 05/26/23 11:35 | 1       |
| Y Carrier  | 80.3   |           | 30 - 110                    |                             |      |       |       | 05/09/23 11:26 | 05/26/23 11:35 | 1       |

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium<br>226 + 228 | 0.647  |           | 0.408                       | 0.411                       | 5.00 | 0.610 | pCi/L |          | 06/01/23 15:07 | 1       |

**Client Sample ID: BAW-2A**

**Lab Sample ID: 180-155616-2**

Date Collected: 04/20/23 16:55

Matrix: Water

Date Received: 04/26/23 10:39

**Method: SW846 9315 - Radium-226 (GFPC)**

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.121  | U         | 0.102                       | 0.103                       | 1.00 | 0.155 | pCi/L | 05/09/23 09:57 | 05/31/23 12:51 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 92.2   |           | 30 - 110                    |                             |      |       |       | 05/09/23 09:57 | 05/31/23 12:51 | 1       |

**Method: SW846 9320 - Radium-228 (GFPC)**

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.814  |           | 0.463                       | 0.469                       | 1.00 | 0.676 | pCi/L | 05/09/23 11:26 | 05/26/23 11:35 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 92.2   |           | 30 - 110                    |                             |      |       |       | 05/09/23 11:26 | 05/26/23 11:35 | 1       |
| Y Carrier  | 75.8   |           | 30 - 110                    |                             |      |       |       | 05/09/23 11:26 | 05/26/23 11:35 | 1       |

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# Client Sample Results

Client: Southern Company  
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-2

## Client Sample ID: BAW-2A

## Lab Sample ID: 180-155616-2

Date Collected: 04/20/23 16:55

Matrix: Water

Date Received: 04/26/23 10:39

### Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium<br>226 + 228 | 0.935  |           | 0.474                       | 0.480                       | 5.00 | 0.676 | pCi/L |          | 06/01/23 15:07 | 1       |

## Client Sample ID: BAW-3

## Lab Sample ID: 180-155616-3

Date Collected: 04/20/23 18:08

Matrix: Water

Date Received: 04/26/23 10:39

### Method: SW846 9315 - Radium-226 (GFPC)

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.237  |           | 0.123                       | 0.125                       | 1.00 | 0.155 | pCi/L | 05/09/23 09:57 | 05/31/23 12:52 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 80.3   |           | 30 - 110                    |                             |      |       |       | 05/09/23 09:57 | 05/31/23 12:52 | 1       |

### Method: SW846 9320 - Radium-228 (GFPC)

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.647  |           | 0.397                       | 0.401                       | 1.00 | 0.575 | pCi/L | 05/09/23 11:26 | 05/26/23 11:35 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 80.3   |           | 30 - 110                    |                             |      |       |       | 05/09/23 11:26 | 05/26/23 11:35 | 1       |
| Y Carrier  | 84.3   |           | 30 - 110                    |                             |      |       |       | 05/09/23 11:26 | 05/26/23 11:35 | 1       |

### Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium<br>226 + 228 | 0.884  |           | 0.416                       | 0.420                       | 5.00 | 0.575 | pCi/L |          | 06/01/23 15:07 | 1       |

## Client Sample ID: BAW-4

## Lab Sample ID: 180-155616-4

Date Collected: 04/21/23 09:50

Matrix: Water

Date Received: 04/26/23 10:39

### Method: SW846 9315 - Radium-226 (GFPC)

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.0991 | U         | 0.0948                      | 0.0952                      | 1.00 | 0.147 | pCi/L | 05/09/23 09:57 | 05/31/23 12:52 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 83.9   |           | 30 - 110                    |                             |      |       |       | 05/09/23 09:57 | 05/31/23 12:52 | 1       |

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# Client Sample Results

Client: Southern Company  
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-2

**Client Sample ID: BAW-4**

**Lab Sample ID: 180-155616-4**

Date Collected: 04/21/23 09:50

Matrix: Water

Date Received: 04/26/23 10:39

**Method: SW846 9320 - Radium-228 (GFPC)**

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.0588 | U         | 0.338                       | 0.339                       | 1.00 | 0.619 | pCi/L | 05/09/23 11:26 | 05/26/23 11:35 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 83.9   |           | 30 - 110                    |                             |      |       |       | 05/09/23 11:26 | 05/26/23 11:35 | 1       |
| Y Carrier  | 79.2   |           | 30 - 110                    |                             |      |       |       | 05/09/23 11:26 | 05/26/23 11:35 | 1       |

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                   | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.158  | U         | 0.351                       | 0.352                       | 5.00 | 0.619 | pCi/L |          | 06/01/23 15:07 | 1       |

**Client Sample ID: BAW-5**

**Lab Sample ID: 180-155616-5**

Date Collected: 04/21/23 11:15

Matrix: Water

Date Received: 04/26/23 10:39

**Method: SW846 9315 - Radium-226 (GFPC)**

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.275  |           | 0.127                       | 0.129                       | 1.00 | 0.151 | pCi/L | 05/09/23 09:57 | 05/31/23 12:52 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 87.8   |           | 30 - 110                    |                             |      |       |       | 05/09/23 09:57 | 05/31/23 12:52 | 1       |

**Method: SW846 9320 - Radium-228 (GFPC)**

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 1.46   |           | 0.543                       | 0.559                       | 1.00 | 0.716 | pCi/L | 05/09/23 11:26 | 05/26/23 11:35 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 87.8   |           | 30 - 110                    |                             |      |       |       | 05/09/23 11:26 | 05/26/23 11:35 | 1       |
| Y Carrier  | 83.4   |           | 30 - 110                    |                             |      |       |       | 05/09/23 11:26 | 05/26/23 11:35 | 1       |

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                   | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 1.73   |           | 0.558                       | 0.574                       | 5.00 | 0.716 | pCi/L |          | 06/01/23 15:07 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-2

**Client Sample ID: BAW-7**

**Lab Sample ID: 180-155616-6**

Date Collected: 04/21/23 18:28

Matrix: Water

Date Received: 04/26/23 10:39

**Method: SW846 9315 - Radium-226 (GFPC)**

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.243  |           | 0.142                       | 0.144                       | 1.00 | 0.187 | pCi/L | 05/09/23 09:57 | 05/31/23 12:52 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 90.3   |           | 30 - 110                    |                             |      |       |       | 05/09/23 09:57 | 05/31/23 12:52 | 1       |

**Method: SW846 9320 - Radium-228 (GFPC)**

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.559  | U         | 0.437                       | 0.440                       | 1.00 | 0.671 | pCi/L | 05/09/23 11:26 | 05/26/23 11:36 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 90.3   |           | 30 - 110                    |                             |      |       |       | 05/09/23 11:26 | 05/26/23 11:36 | 1       |
| Y Carrier  | 85.4   |           | 30 - 110                    |                             |      |       |       | 05/09/23 11:26 | 05/26/23 11:36 | 1       |

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium<br>226 + 228 | 0.802  |           | 0.459                       | 0.463                       | 5.00 | 0.671 | pCi/L |          | 06/01/23 15:07 | 1       |

**Client Sample ID: BAW-8**

**Lab Sample ID: 180-155616-7**

Date Collected: 04/21/23 14:23

Matrix: Water

Date Received: 04/26/23 10:39

**Method: SW846 9315 - Radium-226 (GFPC)**

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.615  |           | 0.182                       | 0.190                       | 1.00 | 0.141 | pCi/L | 05/09/23 09:57 | 05/31/23 14:54 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 93.2   |           | 30 - 110                    |                             |      |       |       | 05/09/23 09:57 | 05/31/23 14:54 | 1       |

**Method: SW846 9320 - Radium-228 (GFPC)**

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.0712 | U         | 0.384                       | 0.384                       | 1.00 | 0.697 | pCi/L | 05/09/23 11:26 | 05/26/23 11:36 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 93.2   |           | 30 - 110                    |                             |      |       |       | 05/09/23 11:26 | 05/26/23 11:36 | 1       |
| Y Carrier  | 89.0   |           | 30 - 110                    |                             |      |       |       | 05/09/23 11:26 | 05/26/23 11:36 | 1       |

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# Client Sample Results

Client: Southern Company  
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-2

**Client Sample ID: BAW-8**

**Lab Sample ID: 180-155616-7**

Date Collected: 04/21/23 14:23

Matrix: Water

Date Received: 04/26/23 10:39

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | 0.686  | U         | 0.425                       | 0.428                       | 5.00 | 0.697 | pCi/L |          | 06/01/23 15:07 | 1       |

**Client Sample ID: BAW-9**

**Lab Sample ID: 180-155616-8**

Date Collected: 04/21/23 13:00

Matrix: Water

Date Received: 04/26/23 10:39

**Method: SW846 9315 - Radium-226 (GFPC)**

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-226     | 0.424         |                  | 0.157                       | 0.162                       | 1.00 | 0.178 | pCi/L | 05/09/23 09:57  | 05/31/23 14:54  | 1              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 90.0          |                  | 30 - 110                    |                             |      |       |       | 05/09/23 09:57  | 05/31/23 14:54  | 1              |

**Method: SW846 9320 - Radium-228 (GFPC)**

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228     | 0.476         | U                | 0.399                       | 0.401                       | 1.00 | 0.626 | pCi/L | 05/09/23 11:26  | 05/26/23 11:36  | 1              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 90.0          |                  | 30 - 110                    |                             |      |       |       | 05/09/23 11:26  | 05/26/23 11:36  | 1              |
| Y Carrier      | 82.9          |                  | 30 - 110                    |                             |      |       |       | 05/09/23 11:26  | 05/26/23 11:36  | 1              |

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium<br>226 + 228 | 0.900  |           | 0.429                       | 0.432                       | 5.00 | 0.626 | pCi/L |          | 06/01/23 15:07 | 1       |

**Client Sample ID: DUP-01**

**Lab Sample ID: 180-155616-9**

Date Collected: 04/20/23 15:55

Matrix: Water

Date Received: 04/26/23 10:39

**Method: SW846 9315 - Radium-226 (GFPC)**

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-226     | 0.109         | U                | 0.0939                      | 0.0944                      | 1.00 | 0.142 | pCi/L | 05/09/23 09:57  | 05/31/23 14:54  | 1              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 88.8          |                  | 30 - 110                    |                             |      |       |       | 05/09/23 09:57  | 05/31/23 14:54  | 1              |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-2

**Client Sample ID: DUP-01**

**Lab Sample ID: 180-155616-9**

Date Collected: 04/20/23 15:55

Matrix: Water

Date Received: 04/26/23 10:39

**Method: SW846 9320 - Radium-228 (GFPC)**

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228     | 0.170         | U                | 0.347                       | 0.348                       | 1.00 | 0.601 | pCi/L | 05/09/23 11:26  | 05/26/23 11:37  | 1              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 88.8          |                  | 30 - 110                    |                             |      |       |       | 05/09/23 11:26  | 05/26/23 11:37  | 1              |
| Y Carrier      | 86.8          |                  | 30 - 110                    |                             |      |       |       | 05/09/23 11:26  | 05/26/23 11:37  | 1              |

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                   | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.279  | U         | 0.359                       | 0.361                       | 5.00 | 0.601 | pCi/L |          | 06/01/23 15:07 | 1       |

**Client Sample ID: DUP-02**

**Lab Sample ID: 180-155616-10**

Date Collected: 04/21/23 10:15

Matrix: Water

Date Received: 04/26/23 10:39

**Method: SW846 9315 - Radium-226 (GFPC)**

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-226     | 0.372         |                  | 0.129                       | 0.133                       | 1.00 | 0.121 | pCi/L | 05/09/23 09:57  | 05/31/23 14:57  | 1              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 91.7          |                  | 30 - 110                    |                             |      |       |       | 05/09/23 09:57  | 05/31/23 14:57  | 1              |

**Method: SW846 9320 - Radium-228 (GFPC)**

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228     | 0.576         |                  | 0.384                       | 0.388                       | 1.00 | 0.574 | pCi/L | 05/09/23 11:26  | 05/26/23 11:37  | 1              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 91.7          |                  | 30 - 110                    |                             |      |       |       | 05/09/23 11:26  | 05/26/23 11:37  | 1              |
| Y Carrier      | 78.4          |                  | 30 - 110                    |                             |      |       |       | 05/09/23 11:26  | 05/26/23 11:37  | 1              |

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                   | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.948  |           | 0.405                       | 0.410                       | 5.00 | 0.574 | pCi/L |          | 06/01/23 15:07 | 1       |

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# Client Sample Results

Client: Southern Company  
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-2

**Client Sample ID: FB-01**

**Lab Sample ID: 180-155616-11**

Date Collected: 04/21/23 12:08

Matrix: Water

Date Received: 04/26/23 10:39

**Method: SW846 9315 - Radium-226 (GFPC)**

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.000  | U         | 0.0535                      | 0.0535                      | 1.00 | 0.114 | pCi/L | 05/09/23 09:57 | 05/31/23 14:57 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 95.4   |           | 30 - 110                    |                             |      |       |       | 05/09/23 09:57 | 05/31/23 14:57 | 1       |

**Method: SW846 9320 - Radium-228 (GFPC)**

| Analyte    | Result  | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | -0.0960 | U         | 0.292                       | 0.292                       | 1.00 | 0.576 | pCi/L | 05/09/23 11:26 | 05/26/23 11:37 | 1       |
| Carrier    | %Yield  | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 95.4    |           | 30 - 110                    |                             |      |       |       | 05/09/23 11:26 | 05/26/23 11:37 | 1       |
| Y Carrier  | 78.4    |           | 30 - 110                    |                             |      |       |       | 05/09/23 11:26 | 05/26/23 11:37 | 1       |

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                   | Result  | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|---------------------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | -0.0960 | U         | 0.297                       | 0.297                       | 5.00 | 0.576 | pCi/L |          | 06/01/23 15:07 | 1       |

**Client Sample ID: EB-01**

**Lab Sample ID: 180-155616-12**

Date Collected: 04/21/23 12:14

Matrix: Water

Date Received: 04/26/23 10:39

**Method: SW846 9315 - Radium-226 (GFPC)**

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.0448 | U         | 0.0652                      | 0.0653                      | 1.00 | 0.111 | pCi/L | 05/09/23 09:57 | 05/31/23 14:57 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 87.3   |           | 30 - 110                    |                             |      |       |       | 05/09/23 09:57 | 05/31/23 14:57 | 1       |

**Method: SW846 9320 - Radium-228 (GFPC)**

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.159  | U         | 0.332                       | 0.332                       | 1.00 | 0.578 | pCi/L | 05/09/23 11:26 | 05/26/23 11:38 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 87.3   |           | 30 - 110                    |                             |      |       |       | 05/09/23 11:26 | 05/26/23 11:38 | 1       |
| Y Carrier  | 80.9   |           | 30 - 110                    |                             |      |       |       | 05/09/23 11:26 | 05/26/23 11:38 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-2

**Client Sample ID: EB-01**

**Lab Sample ID: 180-155616-12**

**Date Collected: 04/21/23 12:14**

**Matrix: Water**

**Date Received: 04/26/23 10:39**

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | 0.204  | U         | 0.338                       | 0.338                       | 5.00 | 0.578 | pCi/L |          | 06/01/23 15:07 | 1       |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# QC Sample Results

Client: Southern Company  
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-2

## Method: 9315 - Radium-226 (GFPC)

**Lab Sample ID: MB 160-610670/1-A**  
**Matrix: Water**  
**Analysis Batch: 613860**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 610670**

| Analyte    | MB        |              | Count           | Total           | RL       | MDC      | Unit    | Prepared       | Analyzed       | Dil Fac |
|------------|-----------|--------------|-----------------|-----------------|----------|----------|---------|----------------|----------------|---------|
|            | Result    | MB Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) |          |          |         |                |                |         |
| Radium-226 | 0.02646   | U            | 0.0913          | 0.0913          | 1.00     | 0.169    | pCi/L   | 05/09/23 09:57 | 05/31/23 12:41 | 1       |
| Carrier    | MB %Yield | MB Qualifier | Limits          |                 | Prepared | Analyzed | Dil Fac |                |                |         |
| Ba Carrier | 91.0      |              | 30 - 110        |                 |          |          |         | 05/09/23 09:57 | 05/31/23 12:41 | 1       |

**Lab Sample ID: LCS 160-610670/2-A**  
**Matrix: Water**  
**Analysis Batch: 613860**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 610670**

| Analyte    | Spike Added | LCS Result    | LCS Qual | Total           | RL       | MDC      | Unit    | %Rec           | %Rec Limits    |
|------------|-------------|---------------|----------|-----------------|----------|----------|---------|----------------|----------------|
|            |             |               |          | Uncert. (2σ+/-) |          |          |         |                |                |
| Radium-226 | 11.3        | 9.796         |          | 1.06            | 1.00     | 0.136    | pCi/L   | 86             | 75 - 113       |
| Carrier    | LCS %Yield  | LCS Qualifier | Limits   |                 | Prepared | Analyzed | Dil Fac |                |                |
| Ba Carrier | 93.7        |               | 30 - 110 |                 |          |          |         | 05/09/23 09:57 | 05/31/23 12:41 |

**Lab Sample ID: LCSD 160-610670/3-A**  
**Matrix: Water**  
**Analysis Batch: 613861**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 610670**

| Analyte    | Spike Added | LCSD Result    | LCSD Qual | Total           | RL       | MDC      | Unit    | %Rec           | %Rec Limits    | RER  | RER   |
|------------|-------------|----------------|-----------|-----------------|----------|----------|---------|----------------|----------------|------|-------|
|            |             |                |           | Uncert. (2σ+/-) |          |          |         |                |                |      | Limit |
| Radium-226 | 11.3        | 10.31          |           | 1.12            | 1.00     | 0.126    | pCi/L   | 91             | 75 - 113       | 0.23 | 1     |
| Carrier    | LCSD %Yield | LCSD Qualifier | Limits    |                 | Prepared | Analyzed | Dil Fac |                |                |      |       |
| Ba Carrier | 85.9        |                | 30 - 110  |                 |          |          |         | 05/09/23 11:26 | 05/26/23 11:35 | 1    |       |

## Method: 9320 - Radium-228 (GFPC)

**Lab Sample ID: MB 160-610681/1-A**  
**Matrix: Water**  
**Analysis Batch: 613346**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 610681**

| Analyte    | MB        |              | Count           | Total           | RL             | MDC            | Unit    | Prepared       | Analyzed       | Dil Fac |
|------------|-----------|--------------|-----------------|-----------------|----------------|----------------|---------|----------------|----------------|---------|
|            | Result    | MB Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) |                |                |         |                |                |         |
| Radium-228 | 0.08758   | U            | 0.332           | 0.332           | 1.00           | 0.596          | pCi/L   | 05/09/23 11:26 | 05/26/23 11:35 | 1       |
| Carrier    | MB %Yield | MB Qualifier | Limits          |                 | Prepared       | Analyzed       | Dil Fac |                |                |         |
| Ba Carrier | 91.0      |              | 30 - 110        |                 |                |                |         | 05/09/23 11:26 | 05/26/23 11:35 | 1       |
| Y Carrier  | 79.8      |              | 30 - 110        |                 | 05/09/23 11:26 | 05/26/23 11:35 | 1       |                |                |         |

Eurofins Pittsburgh

# QC Sample Results

Client: Southern Company  
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-2

## Method: 9320 - Radium-228 (GFPC) (Continued)

**Lab Sample ID: LCS 160-610681/2-A**  
**Matrix: Water**  
**Analysis Batch: 613346**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 610681**

| Analyte        | Spike Added   | LCS Result       | LCS Qual      | Total Uncert. (2σ+/-) | RL   | MDC   | Unit  | %Rec | %Rec Limits |
|----------------|---------------|------------------|---------------|-----------------------|------|-------|-------|------|-------------|
| Radium-228     | 8.17          | 8.763            |               | 1.22                  | 1.00 | 0.474 | pCi/L | 107  | 75 - 125    |
| <b>LCS LCS</b> |               |                  |               |                       |      |       |       |      |             |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b> |                       |      |       |       |      |             |
| Ba Carrier     | 93.7          |                  | 30 - 110      |                       |      |       |       |      |             |
| Y Carrier      | 82.0          |                  | 30 - 110      |                       |      |       |       |      |             |

**Lab Sample ID: LCSD 160-610681/3-A**  
**Matrix: Water**  
**Analysis Batch: 613346**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 610681**

| Analyte          | Spike Added   | LCSD Result      | LCSD Qual     | Total Uncert. (2σ+/-) | RL   | MDC   | Unit  | %Rec | %Rec Limits | RER  | RER Limit |
|------------------|---------------|------------------|---------------|-----------------------|------|-------|-------|------|-------------|------|-----------|
| Radium-228       | 8.17          | 8.793            |               | 1.28                  | 1.00 | 0.663 | pCi/L | 108  | 75 - 125    | 0.01 | 1         |
| <b>LCSD LCSD</b> |               |                  |               |                       |      |       |       |      |             |      |           |
| <b>Carrier</b>   | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b> |                       |      |       |       |      |             |      |           |
| Ba Carrier       | 85.9          |                  | 30 - 110      |                       |      |       |       |      |             |      |           |
| Y Carrier        | 80.9          |                  | 30 - 110      |                       |      |       |       |      |             |      |           |

# QC Association Summary

Client: Southern Company  
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-155616-2

## Rad


### Prep Batch: 610670

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method     | Prep Batch |
|---------------------|------------------------|-----------|--------|------------|------------|
| 180-155616-1        | BAW-1                  | Total/NA  | Water  | PrecSep-21 |            |
| 180-155616-2        | BAW-2A                 | Total/NA  | Water  | PrecSep-21 |            |
| 180-155616-3        | BAW-3                  | Total/NA  | Water  | PrecSep-21 |            |
| 180-155616-4        | BAW-4                  | Total/NA  | Water  | PrecSep-21 |            |
| 180-155616-5        | BAW-5                  | Total/NA  | Water  | PrecSep-21 |            |
| 180-155616-6        | BAW-7                  | Total/NA  | Water  | PrecSep-21 |            |
| 180-155616-7        | BAW-8                  | Total/NA  | Water  | PrecSep-21 |            |
| 180-155616-8        | BAW-9                  | Total/NA  | Water  | PrecSep-21 |            |
| 180-155616-9        | DUP-01                 | Total/NA  | Water  | PrecSep-21 |            |
| 180-155616-10       | DUP-02                 | Total/NA  | Water  | PrecSep-21 |            |
| 180-155616-11       | FB-01                  | Total/NA  | Water  | PrecSep-21 |            |
| 180-155616-12       | EB-01                  | Total/NA  | Water  | PrecSep-21 |            |
| MB 160-610670/1-A   | Method Blank           | Total/NA  | Water  | PrecSep-21 |            |
| LCS 160-610670/2-A  | Lab Control Sample     | Total/NA  | Water  | PrecSep-21 |            |
| LCSD 160-610670/3-A | Lab Control Sample Dup | Total/NA  | Water  | PrecSep-21 |            |

### Prep Batch: 610681

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method    | Prep Batch |
|---------------------|------------------------|-----------|--------|-----------|------------|
| 180-155616-1        | BAW-1                  | Total/NA  | Water  | PrecSep_0 |            |
| 180-155616-2        | BAW-2A                 | Total/NA  | Water  | PrecSep_0 |            |
| 180-155616-3        | BAW-3                  | Total/NA  | Water  | PrecSep_0 |            |
| 180-155616-4        | BAW-4                  | Total/NA  | Water  | PrecSep_0 |            |
| 180-155616-5        | BAW-5                  | Total/NA  | Water  | PrecSep_0 |            |
| 180-155616-6        | BAW-7                  | Total/NA  | Water  | PrecSep_0 |            |
| 180-155616-7        | BAW-8                  | Total/NA  | Water  | PrecSep_0 |            |
| 180-155616-8        | BAW-9                  | Total/NA  | Water  | PrecSep_0 |            |
| 180-155616-9        | DUP-01                 | Total/NA  | Water  | PrecSep_0 |            |
| 180-155616-10       | DUP-02                 | Total/NA  | Water  | PrecSep_0 |            |
| 180-155616-11       | FB-01                  | Total/NA  | Water  | PrecSep_0 |            |
| 180-155616-12       | EB-01                  | Total/NA  | Water  | PrecSep_0 |            |
| MB 160-610681/1-A   | Method Blank           | Total/NA  | Water  | PrecSep_0 |            |
| LCS 160-610681/2-A  | Lab Control Sample     | Total/NA  | Water  | PrecSep_0 |            |
| LCSD 160-610681/3-A | Lab Control Sample Dup | Total/NA  | Water  | PrecSep_0 |            |

**Chain of Custody Record**

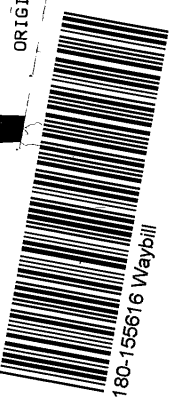
|  |  |   |  |   |  |
|--|--|---|--|---|--|
| <b>Client Information</b><br>Client Contact: <i>Rick Heyenderfer</i><br>SCS Contacts: <i>855-336-0192</i><br>Company: <i>SCS</i>   |  | Lab PM: <i>Brown, Shali</i><br>E-Mail: <i>shali.brown@eurofinset.com</i>  |  | Carrier Tracking No(s): <i>180-155616 Chain of Custody</i>  |  |
| Address: <i>3535 Colonnade Pkwy Bin S 530 EC</i><br>City: <i>Birmingham</i><br>State, Zip: <i>Alabama</i>  |  | Due Date Requested:<br>TAT Requested (days):  |  | Barcode:   |  |
| Phone: <i>205.992.6283</i><br>Email: <i>rsingleton/ros.ryle@subinstruments.com</i>   |  | PO #: <i>SCS10382606</i><br>WO #:   |  | Codes:<br>M - Hexane<br>N - None<br>O - AsNaO2<br>P - Na2O4S<br>Q - Na2SO3<br>R - Na2S2O3<br>S - H2SO4<br>T - TSP Dodecahydrate<br>U - Acetone<br>V - MCAA<br>W - pH 4-5<br>Z - other (specify) |  |
| Project #: <i>18020047</i><br>Plant Name: <i>Daniel Ash Pond B</i><br>Site:  |  | Perform MSD (Yes or No)   |  | Total Number of Containers:   |  |
| Sample Identification  |  | Sample Date   |  | Sample Time   |  |
| Sample Type (C=comp, G=grab)   |  | Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air)  |  | Field Filtered Sample (Yes or No)   |  |
| Preservation Code:   |  | Total Dissolved Solids  |  | Chloride Fluoride and Sulfate   |  |
| Custom (I, II, III, IV, V, VI, VII, VIII, IX, X, XI, XII, XIII, XIV, XV, XVI, XVII, XVIII, XIX, XX, XXI, XXII, XXIII, XXIV, XXV, XXVI, XXVII, XXVIII, XXIX, XXX)   |  | Radium 226 Radium 228 + Combined  |  | Special Instructions/Note:  |  |
| BAW-1<br>BAW-2A<br>BAW-3<br>BAW-4<br>BAW-5<br>BAW-7<br>BAW-8<br>BAW-9<br>OUP-01<br>OUP-02<br>FB-01   |  | 4-20-23<br>4-20-23<br>4-20-23<br>4-21-23<br>4-21-23<br>4-21-23<br>4-21-23<br>4-21-23<br>4-21-23<br>4-21-23<br>4-21-23   |  | 1326<br>1655<br>1808<br>0950<br>1115<br>1828<br>1423<br>1300<br>1555<br>1015<br>1208  |  |
| Possible Hazard Identification<br><input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological |  | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)<br><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months |  | Special Instructions/QC Requirements:   |  |
| Deliverable Requested: I, II, III, IV, Other (specify)   |  | Empty Kit Relinquished by: <i>Fay</i>   |  | Method of Shipment:   |  |
| Relinquished by: <i>Fay</i>  |  | Date/Time: <i>4-24-23 0534</i>  |  | Date/Time: <i>4-26-23 1039</i>  |  |
| Relinquished by: <i>Fay</i>  |  | Date/Time:  |  | Date/Time:  |  |
| Relinquished by:   |  | Date/Time:  |  | Date/Time:  |  |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No   |  | Cooler Temperature(s) °C and Other Remarks:   |  | Company: <i>ROH EM</i><br>Received by: <i>[Signature]</i><br>Company:   |  |







ORIGIN ID:PNSA (850) 336-0192  
SHIP DATE: 24APR23  
ACTING: 67.35 LB  
CAD: 6994795/55FE2401  
DIVS: 24x13x13 IN  
BILL THIRD PARTY



SHIP TO  
ACTING  
CAD:  
DIVS  
BILL

ORIGIN ID:PNSA (850) 336-0192  
TESTAMERICA PITTSBURGH LAB  
SEE CHEERS 5 BEFORE BILL  
301 ALPHA DR  
PITTSBURGH, PA 15238  
UNITED STATES US

TO EUROFINS

301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238

REF: (412) 963-7068  
DEPT: 20  
Thermometer ID 27  
CF 0.2 Initials MR  
PT-WI-SR-001 effective 11/8/18

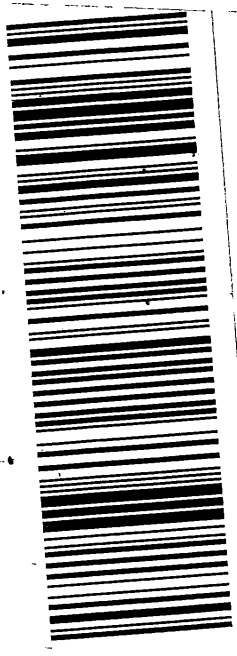


TUE - 25 APR 10:30A  
PRIORITY OVERNIGHT

3 of 3  
MPS# 3974 1493 4777  
Mstr# 3974 1493 4755

XN AGCA

15237  
PA-US PI



ORIGIN ID:PNSA (850) 336-0192

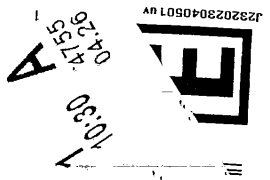
CA PITTSBURGH LAB  
DR  
PA 15238  
STATES US

JFINS

ALPHA DR RIDC PARK

PITTSBURGH PA 15238

REF: (412) 963-7068  
DEPT: 20  
Thermometer ID 44  
CF 0.2 Initials MR  
PT-WI-SR-001 effective 11/8/18

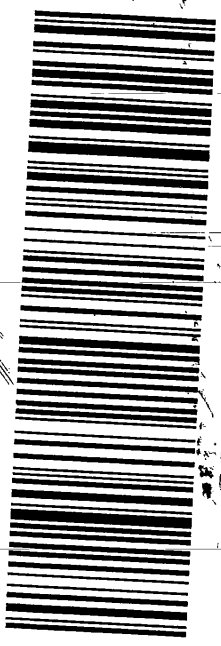


TUE - 25 APR 10:30A  
PRIORITY OVERNIGHT

1 of 3  
TRK# 3974 1493 4755  
0201  
## MASTER ##

XN AGCA

15238  
PA-US PIT



ORIGIN ID:PNISA (850) 336-0192  
TESTAMERICA PITTSBURGH LAB  
SEE CHECKS 5 BEFORE BILL  
301 ALPHA DR  
PITTSBURGH, PA 15238  
UNITED STATES US

TO EUROFINS

301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238

(412) 963-7058  
NO:  
PO:

REF:

DEPT:

UNRECORDED THERMOMETER ID 49 20

Thermometer ID

CF 0.2 Initials ML

PT-WI-SR-001 effective 11/8/18

FedEx  
Express



1232023040501

2 of 3

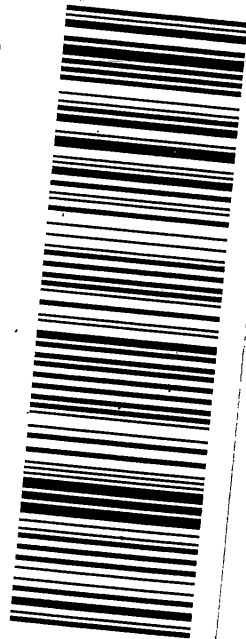
MPS# 3974 1493 4766

Mstr# 3974 1493 4755

**XN AGCA**

TUE - 25 APR 10:30A  
PRIORITY OVERNIGHT

15238  
PA-US PIT



10:30  
04:14  
09:19

RT 198  
EZ 197

156297-435 PRIORITY EXP 03/24

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

**Chain of Custody Record**



| <b>Client Information (Sub Contract Lab)</b> |             | Lab P.M.: Brown, Shali  | Carmer Tracking No(s): 180-485922.1 |                                    |                    |                                   |                            |                                 |  |                            |                            |
|--|-------------|---|-------------------------------------|------------------------------------|--------------------|-----------------------------------|----------------------------|---------------------------------|--|----------------------------|----------------------------|
| Client Contact: Shipping/Receiving           |             | E-Mail: Shali.Brown@et.eurofins.com   | State of Origin: Mississippi        |                                    |                    |                                   |                            |                                 |  |                            |                            |
| Company: TesAmerica Laboratories, Inc.       |             | Accreditations Required (See note):   |                                     |                                    |                    |                                   |                            |                                 |  |                            |                            |
| Address: 13715 Rider Trail North,            |             | Job #: 180-155616-2   |                                     |                                    |                    |                                   |                            |                                 |  |                            |                            |
| City: Earth City                             |             | Preservation Codes:   |                                     |                                    |                    |                                   |                            |                                 |  |                            |                            |
| State, Zip: MO, 63045                        |             | A - HCL<br>B - NaOH<br>C - Zn Acetate<br>D - Nitric Acid<br>E - NaHSO4<br>F - MeOH<br>G - Amchlor<br>H - Ascorbic Acid<br>I - Ice<br>J - DI Water<br>K - EDTA<br>L - EDA<br>Other:                  |                                     |                                    |                    |                                   |                            |                                 |  |                            |                            |
| Phone: 314-298-8566(Tel) 314-298-8757(Fax)   |             | M - Hexane<br>N - None<br>O - AsNaO2<br>P - Na2O4S<br>Q - Na2SO3<br>R - Na2S2O3<br>S - H2SO4<br>T - TSP Dodecahydrate<br>U - Acetone<br>V - MCAA<br>W - pH 4-5<br>Y - Trizma<br>Z - other (specify) |                                     |                                    |                    |                                   |                            |                                 |  |                            |                            |
| Email:                                       |             | Total Number of containers  |                                     |                                    |                    |                                   |                            |                                 |  |                            |                            |
| Project Name: Plant Daniel Ash Pond B        |             | Analysis Requested  |                                     |                                    |                    |                                   |                            |                                 |  |                            |                            |
| Site:  |             | 9315_Ra226/PreSep_21 Radium 226   |                                     |                                    |                    |                                   |                            |                                 |  |                            |                            |
| Due Date Requested: 5/31/2023                |             | 9320_Ra226/PreSep_0 Standard Target List  |                                     |                                    |                    |                                   |                            |                                 |  |                            |                            |
| TAT Requested (days):                        |             | Perform MS/MSD (Yes or No)  |                                     |                                    |                    |                                   |                            |                                 |  |                            |                            |
| PO #:  |             | Field Filtered Sample (Yes or No)   |                                     |                                    |                    |                                   |                            |                                 |  |                            |                            |
| WO #:  |             | Preservation Code:  |                                     |                                    |                    |                                   |                            |                                 |  |                            |                            |
| Project #: 18020047                          |             | Matrix (W=water, S=solid, O=other)  |                                     |                                    |                    |                                   |                            |                                 |  |                            |                            |
| SSOW#:                                       |             | BT=Blood, AT=Air  |                                     |                                    |                    |                                   |                            |                                 |  |                            |                            |
| Sample Identification - Client ID (Lab ID)   | Sample Date | Sample Time   | Sample Type (C=Comp, G=grab)        | Matrix (W=water, S=solid, O=other) | Preservation Code: | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 9315_Ra226/PreSep_21 Radium 226 | 9320_Ra226/PreSep_0 Standard Target List | Total Number of containers | Special Instructions/Note: |
| BAW-1 (180-155616-1)                         | 4/20/23     | 13:26 Central   | Water                               | Water                              |                    | X                                 | X                          | X                               | X  | 2                          |                            |
| BAW-2A (180-155616-2)                        | 4/20/23     | 16:55 Central   | Water                               | Water                              |                    | X                                 | X                          | X                               | X  | 2                          |                            |
| BAW-3 (180-155616-3)                         | 4/20/23     | 18:08 Central   | Water                               | Water                              |                    | X                                 | X                          | X                               | X  | 2                          |                            |
| BAW-4 (180-155616-4)                         | 4/21/23     | 09:50 Central   | Water                               | Water                              |                    | X                                 | X                          | X                               | X  | 2                          |                            |
| BAW-5 (180-155616-5)                         | 4/21/23     | 11:15 Central   | Water                               | Water                              |                    | X                                 | X                          | X                               | X  | 2                          |                            |
| BAW-7 (180-155616-6)                         | 4/21/23     | 18:28 Central   | Water                               | Water                              |                    | X                                 | X                          | X                               | X  | 2                          |                            |
| BAW-8 (180-155616-7)                         | 4/21/23     | 14:23 Central   | Water                               | Water                              |                    | X                                 | X                          | X                               | X  | 2                          |                            |
| BAW-9 (180-155616-8)                         | 4/21/23     | 13:00 Central   | Water                               | Water                              |                    | X                                 | X                          | X                               | X  | 2                          |                            |
| DUP-01 (180-155616-9)                        | 4/20/23     | 15:55 Central   | Water                               | Water                              |                    | X                                 | X                          | X                               | X  | 2                          |                            |

Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.

**Possible Hazard Identification**  
Unconfirmed  
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  
 Disposal By Lab  
 Archive For \_\_\_\_\_ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Method of Shipment: \_\_\_\_\_

Relinquished by: *[Signature]* Date/Time: 5/11/23 17:00 Company: ERITING Company  
 Relinquished by: *[Signature]* Date/Time: \_\_\_\_\_ Company: *Shonbay - Yam* Company  
 Relinquished by: *[Signature]* Date/Time: \_\_\_\_\_ Company: *5/12/23 08:55* Company  
 Relinquished by: *[Signature]* Date/Time: \_\_\_\_\_ Company: *ETARS* Company

Custody Seals Intact:  Yes  No Custody Seal No.: \_\_\_\_\_ Cooler Temperature(s) °C and Other Remarks: \_\_\_\_\_



# Chain of Custody Record



Environment Testing

|  |  |                                     |                             |                         |                      |
|--|--|-------------------------------------|-----------------------------|-------------------------|----------------------|
| <b>Client Information (Sub Contract Lab)</b> |  | Lab PM:                             | Brown, Shali                | Carrier Tracking No(s): | COC No: 180-485922.2 |
| Client Contact:                              |  | E-Mail:                             | Shali.Brown@et.eurofins.com | State of Origin:        | Mississippi          |
| Shipping/Receiving                           |  | Accreditations Required (See note): |                             |                         |                      |

|                       |                                     |
|-----------------------|-------------------------------------|
| Company:              | TestAmerica Laboratories, Inc.      |
| Address:              | 13715 Rider Trail North,            |
| City:                 | Earth City                          |
| State, Zip:           | MO, 63045                           |
| Phone:                | 314-298-8566(Tel) 314-298-8757(Fax) |
| Email:                |                                     |
| Project Name:         | Plant Daniel Ash Pond B             |
| Site:                 |                                     |
| Project #:            | 18020047                            |
| SSOW#:                |                                     |
| Due Date Requested:   | 5/31/2023                           |
| TAT Requested (days): |                                     |
| PO #:                 |                                     |
| WO #:                 |                                     |

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time      | Sample Type (C=comp, G=grab) | Matrix (Newer, Seawater, Onwasthoil, BTXTISSUE, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 920_Ra228/PrecSep_0 Standard Target List | 915_Ra226/PrecSep_21 Radium 226 | Ra226Ra228_GFPc | Analysis Requested | Total Number of Containers | Special Instructions/Note: |
|--|-------------|------------------|------------------------------|--|-----------------------------------|----------------------------|--|---------------------------------|-----------------|--------------------|----------------------------|----------------------------|
| DUP-02 (180-155616-10)                     | 4/21/23     | 10:15<br>Central |                              | Water  | X                                 | X                          | X  | X                               | X               |                    | 2                          |                            |
| FB-01 (180-155616-11)                      | 4/21/23     | 12:08<br>Central |                              | Water  | X                                 | X                          | X  | X                               | X               |                    | 2                          |                            |
| EB-01 (180-155616-12)                      | 4/21/23     | 12:14<br>Central |                              | Water  | X                                 | X                          | X  | X                               | X               |                    | 2                          |                            |

Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.

**Possible Hazard Identification**

Unconfirmed  Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

Deliverable Requested: I, II, III, IV, Other (specify) \_\_\_\_\_ Primary Deliverable Rank: 2

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_

Reinquired by: \_\_\_\_\_ Date/Time: 5/11/23 17:00

Reinquired by: *fedex* Date/Time: \_\_\_\_\_

Reinquired by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Custody Seals Intact:  Yes  No

Custody Seal No.: \_\_\_\_\_

|                                   |          |               |                     |
|-----------------------------------|----------|---------------|---------------------|
| Received by:                      | Company: | Date/Time:    | Method of Shipment: |
| <i>On Hand - SHONABOY - STARR</i> | U.P. Inc | 5/11/23 17:00 | fedex               |
| Received by:                      | Company: | Date/Time:    | Method of Shipment: |
| Received by:                      | Company: | Date/Time:    | Method of Shipment: |
| Received by:                      | Company: | Date/Time:    | Method of Shipment: |
| Received by:                      | Company: | Date/Time:    | Method of Shipment: |
| Received by:                      | Company: | Date/Time:    | Method of Shipment: |
| Received by:                      | Company: | Date/Time:    | Method of Shipment: |
| Received by:                      | Company: | Date/Time:    | Method of Shipment: |
| Received by:                      | Company: | Date/Time:    | Method of Shipment: |
| Received by:                      | Company: | Date/Time:    | Method of Shipment: |
| Received by:                      | Company: | Date/Time:    | Method of Shipment: |
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| Received by:                      | Company: | Date/Time:    | Method of Shipment: |
| Received by:                      | Company: | Date/Time:    | Method of Shipment: |
| Received by:                      | Company: | Date/Time:    | Method of Shipment: |
| Received by:                      | Company: | Date/Time:    | Method of Shipment: |
| Received by:                      | Company: | Date/Time:    | Method of Shipment: |
| Received by:                      | Company: | Date/Time:    | Method of Shipment: |
| Received by:                      | Company: | Date/Time:    | Method of Shipment: |
| Received by:                      | Company: | Date/Time:    | Method of Shipment: |
| Received by:                      | Company: | Date/Time:    | Method of Shipment: |



# Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-155616-2

**Login Number: 155616**

**List Source: Eurofins Pittsburgh**

**List Number: 1**

**Creator: Abernathy, Eric L**

| Question   | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A    |         |
| The cooler's custody seal, if present, is intact.                                | True   |         |
| Sample custody seals, if present, are intact.                                    | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |         |
| Samples were received on ice.  | True   |         |
| Cooler Temperature is acceptable.  | True   |         |
| Cooler Temperature is recorded.  | True   |         |
| COC is present.  | True   |         |
| COC is filled out in ink and legible.  | True   |         |
| COC is filled out with all pertinent information.                                | True   |         |
| Is the Field Sampler's name present on COC?                                      | True   |         |
| There are no discrepancies between the containers received and the COC.          | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)    | True   |         |
| Sample containers have legible labels.   | True   |         |
| Containers are not broken or leaking.  | True   |         |
| Sample collection date/times are provided.                                       | True   |         |
| Appropriate sample containers are used.  | True   |         |
| Sample bottles are completely filled.  | True   |         |
| Sample Preservation Verified.  | True   |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | True   |         |
| Multiphasic samples are not present.   | True   |         |
| Samples do not require splitting or compositing.                                 | True   |         |
| Residual Chlorine Checked.   | N/A    |         |

# Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-155616-2

**Login Number: 155616**

**List Number: 3**

**Creator: Worthington, Sierra M**

**List Source: Eurofins St. Louis**

**List Creation: 05/02/23 01:30 PM**

| Question  | Answer | Comment |
|---|--------|---------|
| Radioactivity wasn't checked or is < /= background as measured by a survey meter. | True   |         |
| The cooler's custody seal, if present, is intact.                                 | True   |         |
| Sample custody seals, if present, are intact.                                     | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.    | True   |         |
| Samples were received on ice.   | N/A    |         |
| Cooler Temperature is acceptable.   | True   |         |
| Cooler Temperature is recorded.   | True   |         |
| COC is present.   | True   |         |
| COC is filled out in ink and legible.   | True   |         |
| COC is filled out with all pertinent information.                                 | True   |         |
| Is the Field Sampler's name present on COC?                                       | True   |         |
| There are no discrepancies between the containers received and the COC.           | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)     | True   |         |
| Sample containers have legible labels.  | True   |         |
| Containers are not broken or leaking.   | True   |         |
| Sample collection date/times are provided.  | True   |         |
| Appropriate sample containers are used.   | True   |         |
| Sample bottles are completely filled.   | True   |         |
| Sample Preservation Verified.   | True   |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs  | True   |         |
| Containers requiring zero headspace have no headspace or bubble is < 6mm (1/4").  | True   |         |
| Multiphasic samples are not present.  | True   |         |
| Samples do not require splitting or compositing.                                  | True   |         |
| Residual Chlorine Checked.  | N/A    |         |



# Low-Flow Test Report:

Test Date / Time: 4/20/2023 12:38:18 PM

Project: Daniel CCR BAW-1

Operator Name: Rick Hagendorfer

|   |   |  |
|---|---|--|
| <b>Location Name: Daniel CCR BAW-1</b><br><b>Well Diameter: 2 in</b><br><b>Casing Type: PVC</b><br><b>Screen Length: 5 ft</b><br><b>Top of Screen: 55.6 ft</b><br><b>Total Depth: 60.6 ft</b><br><b>Initial Depth to Water: 24.9 ft</b> | <b>Pump Type: BP</b><br><b>Tubing Type: PE</b><br><b>Pump Intake From TOC: 58.1 ft</b><br><b>Estimated Total Volume Pumped: 18000 ml</b><br><b>Flow Cell Volume: 90 ml</b><br><b>Final Flow Rate: 400 ml/min</b><br><b>Final Draw Down: 0.12 ft</b> | <b>Instrument Used: Aqua TROLL 400</b><br><b>Serial Number: 852546</b> |
|---|---|--|

## Test Notes:

## Weather Conditions:

Sunny 77

## Low-Flow Readings:

| Date Time          | Elapsed Time | pH      | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP      | Depth to Water | Flow          |
|--------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
|                    |              | +/- 0.2 | +/- 0.2     | +/- 5 %               | +/- 0.2           | +/- 10    | +/- 20   | +/- 0.3        |               |
| 4/20/2023 12:38 PM | 00:00        | 5.03 pH | 24.50 °C    | 40.48 µS/cm           | 4.93 mg/L         |           | 160.8 mV | 24.90 ft       | 400.00 ml/min |
| 4/20/2023 12:43 PM | 05:00        | 4.84 pH | 23.25 °C    | 37.63 µS/cm           | 5.11 mg/L         | 0.79 NTU  | 156.0 mV | 25.02 ft       | 400.00 ml/min |
| 4/20/2023 12:48 PM | 10:00        | 4.85 pH | 23.12 °C    | 37.76 µS/cm           | 5.10 mg/L         | 4.74 NTU  | 152.2 mV | 25.02 ft       | 400.00 ml/min |
| 4/20/2023 12:53 PM | 15:00        | 4.85 pH | 23.02 °C    | 37.86 µS/cm           | 5.10 mg/L         | 4.45 NTU  | 157.9 mV | 25.02 ft       | 400.00 ml/min |
| 4/20/2023 12:58 PM | 20:00        | 4.86 pH | 23.07 °C    | 37.99 µS/cm           | 5.14 mg/L         | 3.23 NTU  | 152.0 mV | 25.02 ft       | 400.00 ml/min |
| 4/20/2023 1:03 PM  | 25:00        | 4.86 pH | 22.92 °C    | 38.12 µS/cm           | 5.17 mg/L         | 2.81 NTU  | 150.7 mV | 25.02 ft       | 400.00 ml/min |
| 4/20/2023 1:08 PM  | 30:00        | 4.87 pH | 22.99 °C    | 38.07 µS/cm           | 5.17 mg/L         | 2.26 NTU  | 149.1 mV | 25.02 ft       | 400.00 ml/min |
| 4/20/2023 1:13 PM  | 35:00        | 4.88 pH | 22.91 °C    | 38.14 µS/cm           | 5.18 mg/L         | 2.03 NTU  | 148.2 mV | 25.02 ft       | 400.00 ml/min |
| 4/20/2023 1:18 PM  | 40:00        | 4.89 pH | 22.75 °C    | 38.30 µS/cm           | 5.16 mg/L         | 1.78 NTU  | 153.8 mV | 25.02 ft       | 400.00 ml/min |
| 4/20/2023 1:23 PM  | 45:00        | 4.89 pH | 22.80 °C    | 38.37 µS/cm           | 5.16 mg/L         | 1.59 NTU  | 153.2 mV | 25.02 ft       | 400.00 ml/min |

## Samples

| Sample ID: | Description: |
|------------|--------------|
|------------|--------------|

BAW-1

Sample time 1326

Created using VuSitu from In-Situ, Inc.



# Low-Flow Test Report:

Test Date / Time: 4/20/2023 4:12:53 PM

Project: Daniel CCR BAW-2A

Operator Name: Rick Hagendorfer

|  |   |  |
|--|---|--|
| <b>Location Name: Daniel CCR BAW-2A</b><br><b>Well Diameter: 2 in</b><br><b>Casing Type: PVC</b><br><b>Screen Length: 10 ft</b><br><b>Top of Screen: 57.2 ft</b><br><b>Total Depth: 67.2 ft</b><br><b>Initial Depth to Water: 34.39 ft</b> | <b>Pump Type: BP</b><br><b>Tubing Type: PE</b><br><b>Pump Intake From TOC: 62.7 ft</b><br><b>Estimated Total Volume Pumped: 16000 ml</b><br><b>Flow Cell Volume: 90 ml</b><br><b>Final Flow Rate: 400 ml/min</b><br><b>Final Draw Down: 0.05 ft</b> | <b>Instrument Used: Aqua TROLL 400</b><br><b>Serial Number: 852546</b> |
|--|---|--|

## Test Notes:

## Weather Conditions:

Sunny 81

## Low-Flow Readings:

| Date Time            | Elapsed Time | pH      | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP     | Depth to Water | Flow          |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
|                      |              | +/- 0.2 | +/- 0.2     | +/- 5 %               | +/- 0.2           | +/- 10    | +/- 20  | +/- 0.3        |               |
| 4/20/2023<br>4:12 PM | 00:00        | 4.77 pH | 23.79 °C    | 64.40 µS/cm           | 1.16 mg/L         |           | 96.7 mV | 34.39 ft       | 400.00 ml/min |
| 4/20/2023<br>4:17 PM | 05:00        | 4.79 pH | 23.85 °C    | 64.92 µS/cm           | 1.48 mg/L         | 8.34 NTU  | 94.5 mV | 34.44 ft       | 400.00 ml/min |
| 4/20/2023<br>4:22 PM | 10:00        | 4.80 pH | 23.79 °C    | 64.94 µS/cm           | 1.55 mg/L         | 5.70 NTU  | 95.4 mV | 34.44 ft       | 400.00 ml/min |
| 4/20/2023<br>4:27 PM | 15:00        | 4.82 pH | 23.75 °C    | 64.84 µS/cm           | 1.54 mg/L         | 3.38 NTU  | 94.1 mV | 34.44 ft       | 400.00 ml/min |
| 4/20/2023<br>4:32 PM | 20:00        | 4.81 pH | 23.70 °C    | 64.80 µS/cm           | 1.53 mg/L         | 2.39 NTU  | 96.4 mV | 34.44 ft       | 400.00 ml/min |
| 4/20/2023<br>4:37 PM | 25:00        | 4.82 pH | 23.70 °C    | 64.76 µS/cm           | 1.54 mg/L         | 1.94 NTU  | 95.1 mV | 34.44 ft       | 400.00 ml/min |
| 4/20/2023<br>4:42 PM | 30:00        | 4.83 pH | 23.70 °C    | 64.76 µS/cm           | 1.55 mg/L         | 1.54 NTU  | 96.4 mV | 34.44 ft       | 400.00 ml/min |
| 4/20/2023<br>4:47 PM | 35:00        | 4.83 pH | 23.64 °C    | 64.61 µS/cm           | 1.55 mg/L         | 1.16 NTU  | 95.8 mV | 34.44 ft       | 400.00 ml/min |
| 4/20/2023<br>4:52 PM | 40:00        | 4.83 pH | 23.67 °C    | 64.68 µS/cm           | 1.55 mg/L         | 0.93 NTU  | 96.0 mV | 34.44 ft       | 400.00 ml/min |

## Samples

| Sample ID: | Description:     |
|------------|------------------|
| BAW-2A     | Sample time 1655 |

Dup-01

Fake sample time 1555

Created using VuSitu from In-Situ, Inc.

# Low-Flow Test Report:

Test Date / Time: 4/20/2023 5:29:44 PM

Project: Daniel CCR BAW-3

Operator Name: Rick Hagendorfer

|   |   |  |
|---|---|--|
| <b>Location Name: Daniel CCR BAW-3</b><br><b>Well Diameter: 2 in</b><br><b>Casing Type: PVC</b><br><b>Screen Length: 10 ft</b><br><b>Top of Screen: 58.4 ft</b><br><b>Total Depth: 68.4 ft</b><br><b>Initial Depth to Water: 34.13 ft</b> | <b>Pump Type: BP</b><br><b>Tubing Type: PE</b><br><b>Pump Intake From TOC: 63.4 ft</b><br><b>Estimated Total Volume Pumped: 14000 ml</b><br><b>Flow Cell Volume: 90 ml</b><br><b>Final Flow Rate: 400 ml/min</b><br><b>Final Draw Down: 0.06 ft</b> | <b>Instrument Used: Aqua TROLL 400</b><br><b>Serial Number: 852546</b> |
|---|---|--|

## Test Notes:

## Weather Conditions:

Sunny 78

## Low-Flow Readings:

| Date Time            | Elapsed Time | pH      | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP      | Depth to Water | Flow          |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
|                      |              | +/- 0.2 | +/- 0.2     | +/- 5 %               | +/- 0.2           | +/- 10    | +/- 20   | +/- 0.3        |               |
| 4/20/2023<br>5:29 PM | 00:00        | 4.50 pH | 24.74 °C    | 49.43 µS/cm           | 2.55 mg/L         |           | 108.8 mV | 34.13 ft       | 400.00 ml/min |
| 4/20/2023<br>5:34 PM | 05:00        | 4.47 pH | 23.63 °C    | 49.89 µS/cm           | 0.46 mg/L         | 6.16 NTU  | 108.7 mV | 34.19 ft       | 400.00 ml/min |
| 4/20/2023<br>5:39 PM | 10:00        | 4.47 pH | 23.38 °C    | 49.78 µS/cm           | 0.33 mg/L         | 5.48 NTU  | 110.3 mV | 34.19 ft       | 400.00 ml/min |
| 4/20/2023<br>5:44 PM | 15:00        | 4.47 pH | 23.32 °C    | 49.82 µS/cm           | 0.33 mg/L         | 4.23 NTU  | 108.7 mV | 34.19 ft       | 400.00 ml/min |
| 4/20/2023<br>5:49 PM | 20:00        | 4.47 pH | 23.28 °C    | 49.54 µS/cm           | 0.33 mg/L         | 2.37 NTU  | 109.0 mV | 34.19 ft       | 400.00 ml/min |
| 4/20/2023<br>5:54 PM | 25:00        | 4.48 pH | 23.27 °C    | 49.36 µS/cm           | 0.34 mg/L         | 2.12 NTU  | 108.8 mV | 34.19 ft       | 400.00 ml/min |
| 4/20/2023<br>5:59 PM | 30:00        | 4.49 pH | 23.16 °C    | 49.09 µS/cm           | 0.35 mg/L         | 1.83 NTU  | 108.9 mV | 34.19 ft       | 400.00 ml/min |
| 4/20/2023<br>6:04 PM | 35:00        | 4.49 pH | 23.09 °C    | 48.91 µS/cm           | 0.36 mg/L         | 1.47 NTU  | 108.8 mV | 34.19 ft       | 400.00 ml/min |

## Samples

| Sample ID: | Description:     |
|------------|------------------|
| BAW-3      | Sample time 1808 |



# Low-Flow Test Report:

Test Date / Time: 4/21/2023 7:40:37 AM

Project: Daniel CCR BAW-4

Operator Name: Rick Hagendorfer

|   |   |  |
|---|---|--|
| <b>Location Name: Daniel CCR BAW-4</b><br><b>Well Diameter: 2 in</b><br><b>Casing Type: PVC</b><br><b>Screen Length: 10 ft</b><br><b>Top of Screen: 59.9 ft</b><br><b>Total Depth: 69.9 ft</b><br><b>Initial Depth to Water: 31.69 ft</b> | <b>Pump Type: BP</b><br><b>Tubing Type: PE</b><br><b>Pump Intake From TOC: 64.9 ft</b><br><b>Estimated Total Volume Pumped: 50000 ml</b><br><b>Flow Cell Volume: 90 ml</b><br><b>Final Flow Rate: 400 ml/min</b><br><b>Final Draw Down: 0.06 ft</b> | <b>Instrument Used: Aqua TROLL 400</b><br><b>Serial Number: 852546</b> |
|---|---|--|

## Test Notes:

## Weather Conditions:

Overcast 64

## Low-Flow Readings:

| Date Time            | Elapsed Time | pH      | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP     | Depth to Water | Flow          |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
|                      |              | +/- 0.2 | +/- 0.2     | +/- 5 %               | +/- 0.2           | +/- 10    | +/- 20  | +/- 0.3        |               |
| 4/21/2023<br>7:40 AM | 00:00        | 7.11 pH | 19.55 °C    | 86.78 µS/cm           | 9.44 mg/L         |           | 97.9 mV | 31.69 ft       | 400.00 ml/min |
| 4/21/2023<br>7:45 AM | 05:00        | 5.58 pH | 21.73 °C    | 84.21 µS/cm           | 0.54 mg/L         | 26.30 NTU | 90.0 mV | 31.75 ft       | 400.00 ml/min |
| 4/21/2023<br>7:50 AM | 10:00        | 5.59 pH | 21.95 °C    | 84.47 µS/cm           | 0.26 mg/L         | 10.10 NTU | 88.4 mV | 31.75 ft       | 400.00 ml/min |
| 4/21/2023<br>7:55 AM | 15:00        | 5.58 pH | 22.02 °C    | 82.81 µS/cm           | 0.24 mg/L         | 8.36 NTU  | 87.5 mV | 31.75 ft       | 400.00 ml/min |
| 4/21/2023<br>8:00 AM | 20:00        | 5.55 pH | 22.01 °C    | 79.73 µS/cm           | 0.25 mg/L         | 5.46 NTU  | 88.4 mV | 31.75 ft       | 400.00 ml/min |
| 4/21/2023<br>8:05 AM | 25:00        | 5.51 pH | 22.13 °C    | 76.46 µS/cm           | 0.25 mg/L         | 3.68 NTU  | 87.8 mV | 31.75 ft       | 400.00 ml/min |
| 4/21/2023<br>8:10 AM | 30:00        | 5.49 pH | 22.11 °C    | 73.87 µS/cm           | 0.26 mg/L         | 3.37 NTU  | 88.2 mV | 31.75 ft       | 400.00 ml/min |
| 4/21/2023<br>8:15 AM | 35:00        | 5.48 pH | 22.04 °C    | 73.07 µS/cm           | 0.26 mg/L         | 4.17 NTU  | 87.9 mV | 31.75 ft       | 400.00 ml/min |
| 4/21/2023<br>8:20 AM | 40:00        | 5.46 pH | 22.09 °C    | 72.17 µS/cm           | 0.26 mg/L         | 11.80 NTU | 88.4 mV | 31.75 ft       | 400.00 ml/min |
| 4/21/2023<br>8:25 AM | 45:00        | 5.46 pH | 22.12 °C    | 71.61 µS/cm           | 0.26 mg/L         | 5.83 NTU  | 87.2 mV | 31.75 ft       | 400.00 ml/min |
| 4/21/2023<br>8:30 AM | 50:00        | 5.47 pH | 22.17 °C    | 71.45 µS/cm           | 0.26 mg/L         | 5.48 NTU  | 86.5 mV | 31.75 ft       | 400.00 ml/min |
| 4/21/2023<br>8:35 AM | 55:00        | 5.46 pH | 22.20 °C    | 71.20 µS/cm           | 0.26 mg/L         | 5.37 NTU  | 86.8 mV | 31.75 ft       | 400.00 ml/min |
| 4/21/2023<br>8:40 AM | 01:00:00     | 5.46 pH | 22.24 °C    | 71.43 µS/cm           | 0.26 mg/L         | 5.18 NTU  | 85.9 mV | 31.75 ft       | 400.00 ml/min |

|                      |          |         |          |             |           |           |         |          |               |
|----------------------|----------|---------|----------|-------------|-----------|-----------|---------|----------|---------------|
| 4/21/2023<br>8:45 AM | 01:05:00 | 5.46 pH | 22.30 °C | 71.07 µS/cm | 0.26 mg/L | 5.18 NTU  | 85.5 mV | 31.75 ft | 400.00 ml/min |
| 4/21/2023<br>8:50 AM | 01:10:00 | 5.47 pH | 22.43 °C | 71.29 µS/cm | 0.25 mg/L | 4.69 NTU  | 84.6 mV | 31.75 ft | 400.00 ml/min |
| 4/21/2023<br>8:55 AM | 01:15:00 | 5.47 pH | 22.46 °C | 70.79 µS/cm | 0.25 mg/L | 31.40 NTU | 84.4 mV | 31.75 ft | 400.00 ml/min |
| 4/21/2023<br>9:00 AM | 01:20:00 | 5.47 pH | 22.46 °C | 71.03 µS/cm | 0.25 mg/L | 7.31 NTU  | 84.9 mV | 31.75 ft | 400.00 ml/min |
| 4/21/2023<br>9:05 AM | 01:25:00 | 5.46 pH | 22.46 °C | 71.32 µS/cm | 0.25 mg/L | 4.90 NTU  | 87.4 mV | 31.75 ft | 400.00 ml/min |
| 4/21/2023<br>9:10 AM | 01:30:00 | 5.45 pH | 22.53 °C | 70.99 µS/cm | 0.25 mg/L | 4.97 NTU  | 89.3 mV | 31.75 ft | 400.00 ml/min |
| 4/21/2023<br>9:15 AM | 01:35:00 | 5.45 pH | 22.62 °C | 70.99 µS/cm | 0.25 mg/L | 4.63 NTU  | 88.7 mV | 31.75 ft | 400.00 ml/min |
| 4/21/2023<br>9:20 AM | 01:40:00 | 5.45 pH | 22.62 °C | 71.11 µS/cm | 0.25 mg/L | 4.57 NTU  | 88.6 mV | 31.75 ft | 400.00 ml/min |
| 4/21/2023<br>9:25 AM | 01:45:00 | 5.45 pH | 22.66 °C | 70.97 µS/cm | 0.24 mg/L | 4.40 NTU  | 88.6 mV | 31.75 ft | 400.00 ml/min |
| 4/21/2023<br>9:30 AM | 01:50:00 | 5.45 pH | 22.67 °C | 70.52 µS/cm | 0.24 mg/L | 4.41 NTU  | 88.1 mV | 31.75 ft | 400.00 ml/min |
| 4/21/2023<br>9:35 AM | 01:55:00 | 5.45 pH | 22.72 °C | 70.76 µS/cm | 0.24 mg/L | 4.42 NTU  | 88.4 mV | 31.75 ft | 400.00 ml/min |
| 4/21/2023<br>9:40 AM | 02:00:00 | 5.45 pH | 22.80 °C | 70.95 µS/cm | 0.24 mg/L | 4.26 NTU  | 87.3 mV | 31.75 ft | 400.00 ml/min |
| 4/21/2023<br>9:45 AM | 02:05:00 | 5.45 pH | 22.85 °C | 70.66 µS/cm | 0.24 mg/L | 4.24 NTU  | 87.5 mV | 31.75 ft | 400.00 ml/min |

## Samples

| Sample ID: | Description:     |
|------------|------------------|
| BAW-4      | Sample time 0950 |

# Low-Flow Test Report:

Test Date / Time: 4/21/2023 10:22:50 AM

Project: Daniel CCR BAW-5

Operator Name: Rick Hagendorfer

|   |  |  |
|---|--|--|
| <b>Location Name: Daniel CCR BAW-5</b><br><b>Well Diameter: 2 in</b><br><b>Casing Type: PVC</b><br><b>Screen Length: 10 ft</b><br><b>Top of Screen: 59.1 ft</b><br><b>Total Depth: 69.1 ft</b><br><b>Initial Depth to Water: 34.79 ft</b> | <b>Pump Type: BP</b><br><b>Tubing Type: PE</b><br><b>Pump Intake From TOC: 64.1 ft</b><br><b>Estimated Total Volume Pumped: 20000 ml</b><br><b>Flow Cell Volume: 90 ml</b><br><b>Final Flow Rate: 400 ml/min</b><br><b>Final Draw Down: 0.1 ft</b> | <b>Instrument Used: Aqua TROLL 400</b><br><b>Serial Number: 852546</b> |
|---|--|--|

## Test Notes:

## Weather Conditions:

Cloudy 74

## Low-Flow Readings:

| Date Time             | Elapsed Time | pH      | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP     | Depth to Water | Flow          |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
|                       |              | +/- 0.2 | +/- 0.2     | +/- 5 %               | +/- 0.2           | +/- 10    | +/- 20  | +/- 0.3        |               |
| 4/21/2023<br>10:22 AM | 00:00        | 6.04 pH | 23.07 °C    | 355.98 µS/cm          | 0.35 mg/L         |           | 90.6 mV | 34.79 ft       | 400.00 ml/min |
| 4/21/2023<br>10:27 AM | 05:00        | 6.06 pH | 22.97 °C    | 359.89 µS/cm          | 0.27 mg/L         | 1.88 NTU  | 82.8 mV | 34.89 ft       | 400.00 ml/min |
| 4/21/2023<br>10:32 AM | 10:00        | 6.08 pH | 22.89 °C    | 361.10 µS/cm          | 0.25 mg/L         | 1.11 NTU  | 77.4 mV | 34.89 ft       | 400.00 ml/min |
| 4/21/2023<br>10:37 AM | 15:00        | 6.08 pH | 23.18 °C    | 363.98 µS/cm          | 0.22 mg/L         | 1.11 NTU  | 74.0 mV | 34.89 ft       | 400.00 ml/min |
| 4/21/2023<br>10:42 AM | 20:00        | 6.07 pH | 22.98 °C    | 361.68 µS/cm          | 0.33 mg/L         | 1.01 NTU  | 71.9 mV | 34.89 ft       | 400.00 ml/min |
| 4/21/2023<br>10:47 AM | 25:00        | 6.07 pH | 22.94 °C    | 363.26 µS/cm          | 0.26 mg/L         | 1.23 NTU  | 69.1 mV | 34.89 ft       | 400.00 ml/min |
| 4/21/2023<br>10:52 AM | 30:00        | 6.08 pH | 23.05 °C    | 363.35 µS/cm          | 0.25 mg/L         | 1.70 NTU  | 66.5 mV | 34.89 ft       | 400.00 ml/min |
| 4/21/2023<br>10:57 AM | 35:00        | 6.08 pH | 23.25 °C    | 364.30 µS/cm          | 0.26 mg/L         | 1.70 NTU  | 64.2 mV | 34.89 ft       | 400.00 ml/min |
| 4/21/2023<br>11:02 AM | 40:00        | 6.08 pH | 23.37 °C    | 363.25 µS/cm          | 0.26 mg/L         | 1.72 NTU  | 62.2 mV | 34.89 ft       | 400.00 ml/min |
| 4/21/2023<br>11:07 AM | 45:00        | 6.09 pH | 23.52 °C    | 361.74 µS/cm          | 0.26 mg/L         | 1.67 NTU  | 60.3 mV | 34.89 ft       | 400.00 ml/min |
| 4/21/2023<br>11:12 AM | 50:00        | 6.09 pH | 23.38 °C    | 361.53 µS/cm          | 0.26 mg/L         | 1.53 NTU  | 58.8 mV | 34.89 ft       | 400.00 ml/min |

## Samples

| Sample ID: | Description:          |
|------------|-----------------------|
| BAW-5      | Sample time 1115      |
| Dup-02     | Fake sample time 1015 |

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# Low-Flow Test Report:

Test Date / Time: 4/21/2023 3:13:53 PM

Project: Daniel CCR BAW-7

Operator Name: Rick Hagendorfer

|   |  |  |
|---|--|--|
| <b>Location Name: Daniel CCR BAW-7</b><br><b>Well Diameter: 2 in</b><br><b>Casing Type: PVC</b><br><b>Screen Length: 10 ft</b><br><b>Top of Screen: 53.8 ft</b><br><b>Total Depth: 63.8 ft</b><br><b>Initial Depth to Water: 28.44 ft</b> | <b>Pump Type: BP</b><br><b>Tubing Type: PE</b><br><b>Pump Intake From TOC: 58.8 ft</b><br><b>Estimated Total Volume Pumped: 76000 ml</b><br><b>Flow Cell Volume: 90 ml</b><br><b>Final Flow Rate: 400 ml/min</b><br><b>Final Draw Down: 0.1 ft</b> | <b>Instrument Used: Aqua TROLL 400</b><br><b>Serial Number: 852546</b> |
|---|--|--|

## Test Notes:

## Weather Conditions:

Cloudy 75

## Low-Flow Readings:

| Date Time            | Elapsed Time | pH      | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP      | Depth to Water | Flow          |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
|                      |              | +/- 0.2 | +/- 0.2     | +/- 5 %               | +/- 0.2           | +/- 10    | +/- 20   | +/- 0.3        |               |
| 4/21/2023<br>3:13 PM | 00:00        | 5.89 pH | 25.01 °C    | 69.99 µS/cm           | 4.03 mg/L         |           | 76.2 mV  | 28.44 ft       | 400.00 ml/min |
| 4/21/2023<br>3:18 PM | 05:00        | 5.04 pH | 22.62 °C    | 66.07 µS/cm           | 1.55 mg/L         | 45.00 NTU | 98.7 mV  | 28.54 ft       | 400.00 ml/min |
| 4/21/2023<br>3:23 PM | 10:00        | 4.99 pH | 22.36 °C    | 68.00 µS/cm           | 1.46 mg/L         | 62.30 NTU | 107.5 mV | 28.54 ft       | 400.00 ml/min |
| 4/21/2023<br>3:28 PM | 15:00        | 4.96 pH | 22.26 °C    | 66.82 µS/cm           | 1.53 mg/L         | 45.80 NTU | 111.5 mV | 28.54 ft       | 400.00 ml/min |
| 4/21/2023<br>3:33 PM | 20:00        | 4.95 pH | 22.17 °C    | 65.77 µS/cm           | 1.58 mg/L         | 30.90 NTU | 116.9 mV | 28.54 ft       | 400.00 ml/min |
| 4/21/2023<br>3:38 PM | 25:00        | 4.94 pH | 22.09 °C    | 65.58 µS/cm           | 1.63 mg/L         | 25.20 NTU | 119.7 mV | 28.54 ft       | 400.00 ml/min |
| 4/21/2023<br>3:43 PM | 30:00        | 4.94 pH | 22.05 °C    | 65.85 µS/cm           | 1.70 mg/L         | 22.20 NTU | 124.2 mV | 28.54 ft       | 400.00 ml/min |
| 4/21/2023<br>3:48 PM | 35:00        | 4.94 pH | 22.08 °C    | 65.98 µS/cm           | 1.71 mg/L         | 21.10 NTU | 125.3 mV | 28.54 ft       | 400.00 ml/min |
| 4/21/2023<br>3:53 PM | 40:00        | 4.94 pH | 22.15 °C    | 66.13 µS/cm           | 1.79 mg/L         | 18.10 NTU | 129.1 mV | 28.54 ft       | 400.00 ml/min |
| 4/21/2023<br>3:58 PM | 45:00        | 4.94 pH | 22.09 °C    | 66.35 µS/cm           | 1.78 mg/L         | 15.80 NTU | 129.7 mV | 28.54 ft       | 400.00 ml/min |
| 4/21/2023<br>4:03 PM | 50:00        | 4.94 pH | 22.09 °C    | 66.24 µS/cm           | 1.82 mg/L         | 14.40 NTU | 133.0 mV | 28.54 ft       | 400.00 ml/min |
| 4/21/2023<br>4:08 PM | 55:00        | 4.93 pH | 22.04 °C    | 66.26 µS/cm           | 1.85 mg/L         | 13.30 NTU | 133.9 mV | 28.54 ft       | 400.00 ml/min |
| 4/21/2023<br>4:13 PM | 01:00:00     | 4.93 pH | 22.18 °C    | 66.68 µS/cm           | 1.87 mg/L         | 13.90 NTU | 135.0 mV | 28.54 ft       | 400.00 ml/min |

|                      |          |         |          |             |           |           |          |          |               |
|----------------------|----------|---------|----------|-------------|-----------|-----------|----------|----------|---------------|
| 4/21/2023<br>4:18 PM | 01:05:00 | 4.94 pH | 22.34 °C | 66.72 µS/cm | 1.87 mg/L | 15.10 NTU | 138.2 mV | 28.54 ft | 400.00 ml/min |
| 4/21/2023<br>4:23 PM | 01:10:00 | 4.93 pH | 22.47 °C | 66.25 µS/cm | 1.87 mg/L | 12.20 NTU | 137.2 mV | 28.54 ft | 400.00 ml/min |
| 4/21/2023<br>4:28 PM | 01:15:00 | 4.93 pH | 22.44 °C | 66.46 µS/cm | 1.89 mg/L | 11.00 NTU | 140.9 mV | 28.54 ft | 400.00 ml/min |
| 4/21/2023<br>4:33 PM | 01:20:00 | 4.93 pH | 22.53 °C | 66.28 µS/cm | 1.97 mg/L | 9.67 NTU  | 139.8 mV | 28.54 ft | 400.00 ml/min |
| 4/21/2023<br>4:38 PM | 01:25:00 | 4.93 pH | 22.26 °C | 66.54 µS/cm | 1.98 mg/L | 10.30 NTU | 143.4 mV | 28.54 ft | 400.00 ml/min |
| 4/21/2023<br>4:43 PM | 01:30:00 | 4.94 pH | 22.10 °C | 66.60 µS/cm | 1.97 mg/L | 10.10 NTU | 141.9 mV | 28.54 ft | 400.00 ml/min |
| 4/21/2023<br>4:48 PM | 01:35:00 | 4.94 pH | 22.10 °C | 66.56 µS/cm | 1.99 mg/L | 8.07 NTU  | 145.2 mV | 28.54 ft | 400.00 ml/min |
| 4/21/2023<br>4:53 PM | 01:40:00 | 4.95 pH | 22.54 °C | 66.88 µS/cm | 1.96 mg/L | 7.74 NTU  | 143.0 mV | 28.54 ft | 400.00 ml/min |
| 4/21/2023<br>4:58 PM | 01:45:00 | 4.95 pH | 22.41 °C | 66.81 µS/cm | 1.96 mg/L | 7.11 NTU  | 143.7 mV | 28.54 ft | 400.00 ml/min |
| 4/21/2023<br>5:03 PM | 01:50:00 | 4.94 pH | 22.44 °C | 66.38 µS/cm | 1.97 mg/L | 6.55 NTU  | 141.2 mV | 28.54 ft | 400.00 ml/min |
| 4/21/2023<br>5:08 PM | 01:55:00 | 4.94 pH | 22.44 °C | 66.48 µS/cm | 1.97 mg/L | 6.32 NTU  | 142.5 mV | 28.54 ft | 400.00 ml/min |
| 4/21/2023<br>5:13 PM | 02:00:00 | 4.94 pH | 22.44 °C | 67.22 µS/cm | 2.03 mg/L | 5.69 NTU  | 143.4 mV | 28.54 ft | 400.00 ml/min |
| 4/21/2023<br>5:18 PM | 02:05:00 | 4.94 pH | 22.49 °C | 66.45 µS/cm | 2.00 mg/L | 6.03 NTU  | 146.3 mV | 28.54 ft | 400.00 ml/min |
| 4/21/2023<br>5:23 PM | 02:10:00 | 4.94 pH | 22.44 °C | 66.55 µS/cm | 2.02 mg/L | 5.60 NTU  | 144.5 mV | 28.54 ft | 400.00 ml/min |
| 4/21/2023<br>5:28 PM | 02:15:00 | 4.94 pH | 22.40 °C | 66.35 µS/cm | 2.03 mg/L | 5.63 NTU  | 148.2 mV | 28.54 ft | 400.00 ml/min |
| 4/21/2023<br>5:33 PM | 02:20:00 | 4.94 pH | 22.40 °C | 66.44 µS/cm | 2.01 mg/L | 5.43 NTU  | 146.0 mV | 28.54 ft | 400.00 ml/min |
| 4/21/2023<br>5:38 PM | 02:25:00 | 4.95 pH | 22.35 °C | 66.50 µS/cm | 2.05 mg/L | 6.39 NTU  | 149.6 mV | 28.54 ft | 400.00 ml/min |
| 4/21/2023<br>5:43 PM | 02:30:00 | 4.94 pH | 22.31 °C | 66.93 µS/cm | 2.05 mg/L | 5.36 NTU  | 151.1 mV | 28.54 ft | 400.00 ml/min |
| 4/21/2023<br>5:48 PM | 02:35:00 | 4.94 pH | 22.35 °C | 66.78 µS/cm | 2.04 mg/L | 5.03 NTU  | 148.2 mV | 28.54 ft | 400.00 ml/min |
| 4/21/2023<br>5:53 PM | 02:40:00 | 4.93 pH | 22.29 °C | 66.81 µS/cm | 2.04 mg/L | 6.07 NTU  | 152.7 mV | 28.54 ft | 400.00 ml/min |
| 4/21/2023<br>5:58 PM | 02:45:00 | 4.93 pH | 22.28 °C | 66.61 µS/cm | 2.03 mg/L | 5.53 NTU  | 149.4 mV | 28.54 ft | 400.00 ml/min |
| 4/21/2023<br>6:03 PM | 02:50:00 | 4.93 pH | 22.24 °C | 66.62 µS/cm | 2.08 mg/L | 5.23 NTU  | 153.8 mV | 28.54 ft | 400.00 ml/min |
| 4/21/2023<br>6:08 PM | 02:55:00 | 4.94 pH | 22.26 °C | 66.73 µS/cm | 2.08 mg/L | 4.90 NTU  | 150.5 mV | 28.54 ft | 400.00 ml/min |
| 4/21/2023<br>6:13 PM | 03:00:00 | 4.93 pH | 22.22 °C | 66.81 µS/cm | 2.08 mg/L | 5.20 NTU  | 150.8 mV | 28.54 ft | 400.00 ml/min |
| 4/21/2023<br>6:18 PM | 03:05:00 | 4.94 pH | 22.22 °C | 66.70 µS/cm | 2.12 mg/L | 5.12 NTU  | 150.5 mV | 28.54 ft | 400.00 ml/min |
| 4/21/2023<br>6:23 PM | 03:10:00 | 4.95 pH | 22.22 °C | 66.79 µS/cm | 2.10 mg/L | 4.94 NTU  | 150.8 mV | 28.54 ft | 400.00 ml/min |

## Samples

|                   |                     |
|-------------------|---------------------|
| <b>Sample ID:</b> | <b>Description:</b> |
|-------------------|---------------------|

BAW-7

Sample time 1828

Created using VuSitu from In-Situ, Inc.

# Low-Flow Test Report:

Test Date / Time: 4/21/2023 1:55:30 PM

Project: Daniel CCR BAW-8

Operator Name: Rick Hagendorfer

|   |  |  |
|---|--|--|
| <b>Location Name: Daniel CCR BAW-8</b><br><b>Well Diameter: 2 in</b><br><b>Casing Type: PVC</b><br><b>Screen Length: 10 ft</b><br><b>Top of Screen: 58.7 ft</b><br><b>Total Depth: 68.7 ft</b><br><b>Initial Depth to Water: 34.84 ft</b> | <b>Pump Type: BP</b><br><b>Tubing Type: PE</b><br><b>Pump Intake From TOC: 63.7 ft</b><br><b>Estimated Total Volume Pumped: 8000 ml</b><br><b>Flow Cell Volume: 90 ml</b><br><b>Final Flow Rate: 320 ml/min</b><br><b>Final Draw Down: 0.05 ft</b> | <b>Instrument Used: Aqua TROLL 400</b><br><b>Serial Number: 852546</b> |
|---|--|--|

## Test Notes:

## Weather Conditions:

Cloudy 76

## Low-Flow Readings:

| Date Time            | Elapsed Time | pH      | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP      | Depth to Water | Flow          |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
|                      |              | +/- 0.2 | +/- 0.2     | +/- 5 %               | +/- 0.2           | +/- 10    | +/- 20   | +/- 0.3        |               |
| 4/21/2023<br>1:55 PM | 00:00        | 5.42 pH | 24.02 °C    | 316.97 µS/cm          | 5.99 mg/L         |           | 135.8 mV | 34.84 ft       | 320.00 ml/min |
| 4/21/2023<br>2:00 PM | 05:00        | 5.93 pH | 23.25 °C    | 321.14 µS/cm          | 0.71 mg/L         | 2.38 NTU  | 90.6 mV  | 34.89 ft       | 320.00 ml/min |
| 4/21/2023<br>2:05 PM | 10:00        | 5.99 pH | 23.08 °C    | 318.44 µS/cm          | 0.43 mg/L         | 1.00 NTU  | 81.9 mV  | 34.89 ft       | 320.00 ml/min |
| 4/21/2023<br>2:10 PM | 15:00        | 6.01 pH | 23.02 °C    | 318.88 µS/cm          | 0.33 mg/L         | 0.80 NTU  | 77.3 mV  | 34.89 ft       | 320.00 ml/min |
| 4/21/2023<br>2:15 PM | 20:00        | 6.04 pH | 23.01 °C    | 318.39 µS/cm          | 0.30 mg/L         | 0.74 NTU  | 73.2 mV  | 34.89 ft       | 320.00 ml/min |
| 4/21/2023<br>2:20 PM | 25:00        | 6.05 pH | 22.98 °C    | 319.00 µS/cm          | 0.25 mg/L         | 0.56 NTU  | 70.3 mV  | 34.89 ft       | 320.00 ml/min |

## Samples

| Sample ID: | Description:     |
|------------|------------------|
| BAW-8      | Sample time 1423 |

# Low-Flow Test Report:

Test Date / Time: 4/21/2023 12:35:56 PM

Project: Daniel CCR BAW-9

Operator Name: Rick Hagendorfer

|  |  |  |
|--|--|--|
| <b>Location Name: Daniel CCR BAW-9</b><br><b>Well Diameter: 2 in</b><br><b>Casing Type: PVC</b><br><b>Screen Length: 10 ft</b><br><b>Top of Screen: 53.1 ft</b><br><b>Total Depth: 63.1 ft</b><br><b>Initial Depth to Water: 34.2 ft</b> | <b>Pump Type: BP</b><br><b>Tubing Type: PE</b><br><b>Pump Intake From TOC: 58.1 ft</b><br><b>Estimated Total Volume Pumped: 8000 ml</b><br><b>Flow Cell Volume: 90 ml</b><br><b>Final Flow Rate: 400 ml/min</b><br><b>Final Draw Down: 0.09 ft</b> | <b>Instrument Used: Aqua TROLL 400</b><br><b>Serial Number: 852546</b> |
|--|--|--|

## Test Notes:

## Weather Conditions:

Cloudy 75

## Low-Flow Readings:

| Date Time             | Elapsed Time | pH      | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP     | Depth to Water | Flow          |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
|                       |              | +/- 0.2 | +/- 0.2     | +/- 5 %               | +/- 0.2           | +/- 10    | +/- 20  | +/- 0.3        |               |
| 4/21/2023<br>12:35 PM | 00:00        | 6.53 pH | 27.52 °C    | 327.78 µS/cm          | 8.44 mg/L         |           | 81.7 mV | 34.20 ft       | 400.00 ml/min |
| 4/21/2023<br>12:40 PM | 05:00        | 6.06 pH | 24.06 °C    | 339.74 µS/cm          | 0.47 mg/L         | 1.33 NTU  | 71.1 mV | 34.29 ft       | 400.00 ml/min |
| 4/21/2023<br>12:45 PM | 10:00        | 6.06 pH | 23.74 °C    | 343.86 µS/cm          | 0.31 mg/L         | 0.62 NTU  | 69.0 mV | 34.29 ft       | 400.00 ml/min |
| 4/21/2023<br>12:50 PM | 15:00        | 6.06 pH | 23.64 °C    | 347.34 µS/cm          | 0.25 mg/L         | 0.60 NTU  | 66.9 mV | 34.29 ft       | 400.00 ml/min |
| 4/21/2023<br>12:55 PM | 20:00        | 6.06 pH | 23.61 °C    | 348.97 µS/cm          | 0.22 mg/L         | 0.57 NTU  | 65.1 mV | 34.29 ft       | 400.00 ml/min |

## Samples

| Sample ID: | Description:     |
|------------|------------------|
| BAW-9      | Sample time 1300 |
| FB-01      | Sample time 1208 |
| EB-01      | Sample time 1214 |

**2nd**  
**Semi-Annual**  
**Monitoring Event**

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Robert (Trey) Singleton  
Southern Company  
3535 Colonnade Parkway  
Bin S 530 EC  
Birmingham, Alabama 35243

Generated 11/14/2023 4:52:39 PM Revision 1

**JOB DESCRIPTION**

Plant Daniel Ash Pond B

**JOB NUMBER**

180-164433-1

# Eurofins Pittsburgh

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

PA Lab ID: 02-00416

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Pittsburgh Project Manager.

## Authorization



Authorized for release by  
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Revision 1





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# Case Narrative

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-1

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**Job ID: 180-164433-1**

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**Laboratory: Eurofins Pittsburgh**

## Narrative

---

### Job Narrative 180-164433-1

111423 Revised report to add field pH data at client request. This report replaces the report previously issued on 110223.

#### Receipt

The samples were received on 10/26/2023 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.0° C, 1.3° C, 1.4° C and 2.7° C.

#### Receipt Exceptions

The container labels for the following sample did not match the information listed on the Chain-of-Custody (COC) The container labels list a collection time of 11:25 while the COC lists 12:25. The time on the COC was used.

#### GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



# Definitions/Glossary

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-1

## Qualifiers

### HPLC/IC

| Qualifier | Qualifier Description  |
|-----------|--|
| B         | Compound was found in the blank and sample.  |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### Metals

| Qualifier | Qualifier Description   |
|-----------|---|
| 4         | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|---|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery  |
| CFL            | Contains Free Liquid  |
| CFU            | Colony Forming Unit   |
| CNF            | Contains No Free Liquid   |
| DER            | Duplicate Error Ratio (normalized absolute difference)  |
| Dil Fac        | Dilution Factor   |
| DL             | Detection Limit (DoD/DOE)   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)   |
| EDL            | Estimated Detection Limit (Dioxin)  |
| LOD            | Limit of Detection (DoD/DOE)  |
| LOQ            | Limit of Quantitation (DoD/DOE)   |
| MCL            | EPA recommended "Maximum Contaminant Level"   |
| MDA            | Minimum Detectable Activity (Radiochemistry)  |
| MDC            | Minimum Detectable Concentration (Radiochemistry)   |
| MDL            | Method Detection Limit  |
| ML             | Minimum Level (Dioxin)  |
| MPN            | Most Probable Number  |
| MQL            | Method Quantitation Limit   |
| NC             | Not Calculated  |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)  |
| NEG            | Negative / Absent   |
| POS            | Positive / Present  |
| PQL            | Practical Quantitation Limit  |
| PRES           | Presumptive   |
| QC             | Quality Control   |
| RER            | Relative Error Ratio (Radiochemistry)   |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)   |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)   |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)   |
| TNTC           | Too Numerous To Count   |

# Accreditation/Certification Summary

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-1

## Laboratory: Eurofins Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority              | Program             | Identification Number | Expiration Date |
|------------------------|---------------------|-----------------------|-----------------|
| Arkansas DEQ           | State               | 19-033-0              | 06-27-24        |
| California             | State               | 2891                  | 04-30-24        |
| Connecticut            | State               | PH-0688               | 09-30-24        |
| Florida                | NELAP               | E871008               | 06-30-24        |
| Georgia                | State               | PA 02-00416           | 04-30-24        |
| Illinois               | NELAP               | 004375                | 06-30-24        |
| Kansas                 | NELAP               | E-10350               | 01-31-24        |
| Kentucky (UST)         | State               | 162013                | 04-30-23 *      |
| Kentucky (WW)          | State               | KY98043               | 12-31-23        |
| Louisiana              | NELAP               | 04041                 | 06-30-22 *      |
| Louisiana (All)        | NELAP               | 04041                 | 06-30-24        |
| Maine                  | State               | PA00164               | 03-06-24        |
| Minnesota              | NELAP               | 042-999-482           | 12-31-23        |
| New Hampshire          | NELAP               | 2030                  | 04-04-24        |
| New Jersey             | NELAP               | PA005                 | 06-30-24        |
| New York               | NELAP               | 11182                 | 04-01-24        |
| North Carolina (WW/SW) | State               | 434                   | 12-31-23        |
| North Dakota           | State               | R-227                 | 04-30-24        |
| Oregon                 | NELAP               | PA-2151               | 02-06-24        |
| Pennsylvania           | NELAP               | 02-00416              | 04-30-24        |
| Rhode Island           | State               | LAO00362              | 12-31-22 *      |
| South Carolina         | State               | 89014                 | 04-30-23 *      |
| Texas                  | NELAP               | T104704528            | 03-31-24        |
| US Fish & Wildlife     | US Federal Programs | 058448                | 03-31-24        |
| USDA                   | US Federal Programs | P330-16-00211         | 04-11-26        |
| Utah                   | NELAP               | PA001462019-8         | 05-31-24        |
| Virginia               | NELAP               | 10043                 | 07-14-24        |
| West Virginia DEP      | State               | 142                   | 01-31-24        |
| Wisconsin              | State               | 998027800             | 08-31-24        |

## Laboratory: Eurofins Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority       | Program               | Identification Number | Expiration Date |
|-----------------|-----------------------|-----------------------|-----------------|
|                 | AFCEE                 | SAVLAB                |                 |
| Alabama         | State                 | 41450                 | 06-30-24        |
| ANAB            | Dept. of Defense ELAP | L2463                 | 09-22-24        |
| Arkansas DEQ    | State                 | 19-015-0              | 02-01-24        |
| California      | State                 | 2939                  | 06-30-24        |
| Florida         | NELAP                 | E87052                | 11-09-23        |
| Georgia         | State                 | E87052                | 06-30-24        |
| Georgia (DW)    | State                 | 803                   | 06-30-24        |
| Guam            | State                 | 19-007R               | 04-17-24        |
| Hawaii          | State                 | <cert No.>            | 06-30-24        |
| Illinois        | NELAP                 | 200022                | 11-30-23        |
| Indiana         | State                 | C-GA-02               | 06-30-24        |
| Iowa            | State                 | 353                   | 07-01-25        |
| Kentucky (UST)  | State                 | NA                    | 06-30-24        |
| Louisiana       | NELAP                 | 30690                 | 06-30-24        |
| Louisiana (All) | NELAP                 | 30690                 | 06-30-24        |

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Pittsburgh

# Accreditation/Certification Summary

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-1

## Laboratory: Eurofins Savannah (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority              | Program             | Identification Number | Expiration Date |
|------------------------|---------------------|-----------------------|-----------------|
| Louisiana (DW)         | State               | LA009                 | 12-31-23        |
| Maine                  | State               | GA00006               | 09-25-24        |
| Maryland               | State               | 250                   | 12-31-23        |
| Massachusetts          | State               | M-GA006               | 06-30-24        |
| Michigan               | State               | 9925                  | 06-30-24        |
| Mississippi            | State               | <cert No.>            | 06-30-24        |
| Nebraska               | State               | NE-OS-7-04            | 06-30-24        |
| New Jersey             | NELAP               | GA769                 | 06-30-24        |
| New Mexico             | State               | GA00006               | 06-30-24        |
| North Carolina (DW)    | State               | 13701                 | 07-31-24        |
| North Carolina (WW/SW) | State               | 269                   | 12-31-23        |
| Pennsylvania           | NELAP               | 68-00474              | 06-30-24        |
| Puerto Rico            | State               | GA00006               | 01-01-24        |
| South Carolina         | State               | 98001                 | 06-30-24        |
| Tennessee              | State               | TN02961               | 06-30-24        |
| Texas                  | NELAP               | T1047004185           | 11-30-23        |
| Texas                  | TCEQ Water Supply   | T104704185            | 06-30-24        |
| USDA                   | US Federal Programs | P330-18-00313         | 09-03-24        |
| Virginia               | NELAP               | 460161                | 06-14-24        |
| Wyoming                | State               | 8TMS-L                | 06-30-24        |

# Sample Summary

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 180-164433-1  | BAW-7            | Water  | 10/24/23 11:20 | 10/26/23 10:30 |
| 180-164433-2  | BAW-1            | Water  | 10/24/23 12:25 | 10/26/23 10:30 |
| 180-164433-3  | BAW-2A           | Water  | 10/24/23 14:01 | 10/26/23 10:30 |
| 180-164433-4  | BAW-8            | Water  | 10/24/23 16:35 | 10/26/23 10:30 |
| 180-164433-5  | BAW-9            | Water  | 10/24/23 18:30 | 10/26/23 10:30 |
| 180-164433-6  | EB-01            | Water  | 10/24/23 15:07 | 10/26/23 10:30 |
| 180-164433-7  | FB-01            | Water  | 10/24/23 15:25 | 10/26/23 10:30 |
| 180-164433-8  | DUP-01           | Water  | 10/24/23 13:01 | 10/26/23 10:30 |
| 180-164433-9  | BAW-3            | Water  | 10/25/23 09:49 | 10/26/23 10:30 |
| 180-164433-10 | BAW-4            | Water  | 10/25/23 12:35 | 10/26/23 10:30 |
| 180-164433-11 | BAW-5            | Water  | 10/25/23 14:05 | 10/26/23 10:30 |
| 180-164433-12 | DUP-02           | Water  | 10/25/23 08:49 | 10/26/23 10:30 |

- 1
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- 3
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- 12
- 13

# Method Summary

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-1

| Method         | Method Description                                 | Protocol | Laboratory |
|----------------|--|----------|------------|
| EPA 9056A      | Anions, Ion Chromatography                         | SW846    | EET PIT    |
| 6020B          | Metals (ICP/MS)                                    | SW846    | EET SAV    |
| EPA 7470A      | Mercury (CVAA)                                     | SW846    | EET PIT    |
| SM 2540C       | Solids, Total Dissolved (TDS)                      | SM       | EET PIT    |
| Field Sampling | Field Sampling                                     | EPA      | EET PIT    |
| 3005A          | Preparation, Total Recoverable or Dissolved Metals | SW846    | EET SAV    |
| 7470A          | Preparation, Mercury                               | SW846    | EET PIT    |

#### Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-1

**Client Sample ID: BAW-7**

**Lab Sample ID: 180-164433-1**

**Date Collected: 10/24/23 11:20**

**Matrix: Water**

**Date Received: 10/26/23 10:30**

| Prep Type                 | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|---------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA                  | Analysis   | EPA 9056A      |     | 1          | 1 mL           | 1 mL         | 450294       | 10/27/23 03:48       | M1D     | EET PIT |
| Instrument ID: CHICS2100B |            |                |     |            |                |              |              |                      |         |         |
| Total Recoverable         | Prep       | 3005A          |     |            | 25 mL          | 125 mL       | 805280       | 10/30/23 07:59       | RR      | EET SAV |
| Total Recoverable         | Analysis   | 6020B          |     | 1          |                |              | 805687       | 10/31/23 15:44       | BWR     | EET SAV |
| Instrument ID: ICPMSC     |            |                |     |            |                |              |              |                      |         |         |
| Total/NA                  | Prep       | 7470A          |     |            | 25 mL          | 25 mL        | 450385       | 10/27/23 10:00       | MTW     | EET PIT |
| Total/NA                  | Analysis   | EPA 7470A      |     | 1          |                |              | 450425       | 10/27/23 13:35       | MTW     | EET PIT |
| Instrument ID: HGZ        |            |                |     |            |                |              |              |                      |         |         |
| Total/NA                  | Analysis   | SM 2540C       |     | 1          | 100 mL         | 100 mL       | 450440       | 10/27/23 19:36       | LWM     | EET PIT |
| Instrument ID: NOEQUIP    |            |                |     |            |                |              |              |                      |         |         |
| Total/NA                  | Analysis   | Field Sampling |     | 1          |                |              | 451747       | 10/24/23 12:20       | FDS     | EET PIT |
| Instrument ID: NOEQUIP    |            |                |     |            |                |              |              |                      |         |         |

**Client Sample ID: BAW-1**

**Lab Sample ID: 180-164433-2**

**Date Collected: 10/24/23 12:25**

**Matrix: Water**

**Date Received: 10/26/23 10:30**

| Prep Type                 | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|---------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA                  | Analysis   | EPA 9056A      |     | 1          | 1 mL           | 1 mL         | 450294       | 10/27/23 04:33       | M1D     | EET PIT |
| Instrument ID: CHICS2100B |            |                |     |            |                |              |              |                      |         |         |
| Total Recoverable         | Prep       | 3005A          |     |            | 25 mL          | 125 mL       | 805280       | 10/30/23 07:59       | RR      | EET SAV |
| Total Recoverable         | Analysis   | 6020B          |     | 1          |                |              | 805687       | 10/31/23 15:48       | BWR     | EET SAV |
| Instrument ID: ICPMSC     |            |                |     |            |                |              |              |                      |         |         |
| Total/NA                  | Prep       | 7470A          |     |            | 25 mL          | 25 mL        | 450385       | 10/27/23 10:00       | MTW     | EET PIT |
| Total/NA                  | Analysis   | EPA 7470A      |     | 1          |                |              | 450425       | 10/27/23 13:36       | MTW     | EET PIT |
| Instrument ID: HGZ        |            |                |     |            |                |              |              |                      |         |         |
| Total/NA                  | Analysis   | SM 2540C       |     | 1          | 100 mL         | 100 mL       | 450440       | 10/27/23 19:36       | LWM     | EET PIT |
| Instrument ID: NOEQUIP    |            |                |     |            |                |              |              |                      |         |         |
| Total/NA                  | Analysis   | Field Sampling |     | 1          |                |              | 451747       | 10/24/23 13:25       | FDS     | EET PIT |
| Instrument ID: NOEQUIP    |            |                |     |            |                |              |              |                      |         |         |

**Client Sample ID: BAW-2A**

**Lab Sample ID: 180-164433-3**

**Date Collected: 10/24/23 14:01**

**Matrix: Water**

**Date Received: 10/26/23 10:30**

| Prep Type                 | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA                  | Analysis   | EPA 9056A    |     | 1          | 1 mL           | 1 mL         | 450294       | 10/27/23 04:48       | M1D     | EET PIT |
| Instrument ID: CHICS2100B |            |              |     |            |                |              |              |                      |         |         |
| Total Recoverable         | Prep       | 3005A        |     |            | 25 mL          | 125 mL       | 805280       | 10/30/23 07:59       | RR      | EET SAV |
| Total Recoverable         | Analysis   | 6020B        |     | 1          |                |              | 805687       | 10/31/23 15:40       | BWR     | EET SAV |
| Instrument ID: ICPMSC     |            |              |     |            |                |              |              |                      |         |         |
| Total/NA                  | Prep       | 7470A        |     |            | 25 mL          | 25 mL        | 450385       | 10/27/23 10:00       | MTW     | EET PIT |
| Total/NA                  | Analysis   | EPA 7470A    |     | 1          |                |              | 450425       | 10/27/23 13:37       | MTW     | EET PIT |
| Instrument ID: HGZ        |            |              |     |            |                |              |              |                      |         |         |

Eurofins Pittsburgh



# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-1

## Client Sample ID: BAW-2A

## Lab Sample ID: 180-164433-3

Date Collected: 10/24/23 14:01

Matrix: Water

Date Received: 10/26/23 10:30

| Prep Type              | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA               | Analysis   | SM 2540C       |     | 1          | 100 mL         | 100 mL       | 450440       | 10/27/23 19:36       | LWM     | EET PIT |
| Total/NA               | Analysis   | Field Sampling |     | 1          |                |              | 451747       | 10/24/23 15:01       | FDS     | EET PIT |
| Instrument ID: NOEQUIP |            |                |     |            |                |              |              |                      |         |         |

## Client Sample ID: BAW-8

## Lab Sample ID: 180-164433-4

Date Collected: 10/24/23 16:35

Matrix: Water

Date Received: 10/26/23 10:30

| Prep Type                 | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|---------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA                  | Analysis   | EPA 9056A      |     | 1          | 1 mL           | 1 mL         | 450294       | 10/27/23 05:02       | M1D     | EET PIT |
| Instrument ID: CHICS2100B |            |                |     |            |                |              |              |                      |         |         |
| Total Recoverable         | Prep       | 3005A          |     |            | 25 mL          | 125 mL       | 805283       | 10/30/23 08:06       | RR      | EET SAV |
| Total Recoverable         | Analysis   | 6020B          |     | 1          |                |              | 805687       | 10/31/23 12:13       | BWR     | EET SAV |
| Instrument ID: ICPMSC     |            |                |     |            |                |              |              |                      |         |         |
| Total/NA                  | Prep       | 7470A          |     |            | 25 mL          | 25 mL        | 450385       | 10/27/23 10:00       | MTW     | EET PIT |
| Total/NA                  | Analysis   | EPA 7470A      |     | 1          |                |              | 450425       | 10/27/23 13:38       | MTW     | EET PIT |
| Instrument ID: HGZ        |            |                |     |            |                |              |              |                      |         |         |
| Total/NA                  | Analysis   | SM 2540C       |     | 1          | 100 mL         | 100 mL       | 450440       | 10/27/23 19:36       | LWM     | EET PIT |
| Instrument ID: NOEQUIP    |            |                |     |            |                |              |              |                      |         |         |
| Total/NA                  | Analysis   | Field Sampling |     | 1          |                |              | 451747       | 10/24/23 17:35       | FDS     | EET PIT |
| Instrument ID: NOEQUIP    |            |                |     |            |                |              |              |                      |         |         |

## Client Sample ID: BAW-9

## Lab Sample ID: 180-164433-5

Date Collected: 10/24/23 18:30

Matrix: Water

Date Received: 10/26/23 10:30

| Prep Type                 | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|---------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA                  | Analysis   | EPA 9056A      |     | 1          | 1 mL           | 1 mL         | 450294       | 10/27/23 05:17       | M1D     | EET PIT |
| Instrument ID: CHICS2100B |            |                |     |            |                |              |              |                      |         |         |
| Total Recoverable         | Prep       | 3005A          |     |            | 25 mL          | 125 mL       | 805283       | 10/30/23 08:06       | RR      | EET SAV |
| Total Recoverable         | Analysis   | 6020B          |     | 1          |                |              | 805687       | 10/31/23 12:25       | BWR     | EET SAV |
| Instrument ID: ICPMSC     |            |                |     |            |                |              |              |                      |         |         |
| Total/NA                  | Prep       | 7470A          |     |            | 25 mL          | 25 mL        | 450385       | 10/27/23 10:00       | MTW     | EET PIT |
| Total/NA                  | Analysis   | EPA 7470A      |     | 1          |                |              | 450425       | 10/27/23 13:42       | MTW     | EET PIT |
| Instrument ID: HGZ        |            |                |     |            |                |              |              |                      |         |         |
| Total/NA                  | Analysis   | SM 2540C       |     | 1          | 100 mL         | 100 mL       | 450441       | 10/27/23 19:55       | LWM     | EET PIT |
| Instrument ID: NOEQUIP    |            |                |     |            |                |              |              |                      |         |         |
| Total/NA                  | Analysis   | Field Sampling |     | 1          |                |              | 451747       | 10/24/23 19:30       | FDS     | EET PIT |
| Instrument ID: NOEQUIP    |            |                |     |            |                |              |              |                      |         |         |

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-1

## Client Sample ID: EB-01

## Lab Sample ID: 180-164433-6

Date Collected: 10/24/23 15:07

Matrix: Water

Date Received: 10/26/23 10:30

| Prep Type                 | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA                  | Analysis   | EPA 9056A    |     | 1          | 1 mL           | 1 mL         | 450294       | 10/27/23 05:32       | M1D     | EET PIT |
| Instrument ID: CHICS2100B |            |              |     |            |                |              |              |                      |         |         |
| Total Recoverable         | Prep       | 3005A        |     |            | 25 mL          | 125 mL       | 805280       | 10/30/23 07:59       | RR      | EET SAV |
| Total Recoverable         | Analysis   | 6020B        |     | 1          |                |              | 805687       | 10/31/23 16:01       | BWR     | EET SAV |
| Instrument ID: ICPMSC     |            |              |     |            |                |              |              |                      |         |         |
| Total/NA                  | Prep       | 7470A        |     |            | 25 mL          | 25 mL        | 450385       | 10/27/23 10:00       | MTW     | EET PIT |
| Total/NA                  | Analysis   | EPA 7470A    |     | 1          |                |              | 450425       | 10/27/23 13:44       | MTW     | EET PIT |
| Instrument ID: HGZ        |            |              |     |            |                |              |              |                      |         |         |
| Total/NA                  | Analysis   | SM 2540C     |     | 1          | 100 mL         | 100 mL       | 450441       | 10/27/23 19:55       | LWM     | EET PIT |
| Instrument ID: NOEQUIP    |            |              |     |            |                |              |              |                      |         |         |

## Client Sample ID: FB-01

## Lab Sample ID: 180-164433-7

Date Collected: 10/24/23 15:25

Matrix: Water

Date Received: 10/26/23 10:30

| Prep Type                 | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA                  | Analysis   | EPA 9056A    |     | 1          | 1 mL           | 1 mL         | 450294       | 10/27/23 06:16       | M1D     | EET PIT |
| Instrument ID: CHICS2100B |            |              |     |            |                |              |              |                      |         |         |
| Total Recoverable         | Prep       | 3005A        |     |            | 25 mL          | 125 mL       | 805280       | 10/30/23 07:59       | RR      | EET SAV |
| Total Recoverable         | Analysis   | 6020B        |     | 1          |                |              | 805687       | 10/31/23 15:53       | BWR     | EET SAV |
| Instrument ID: ICPMSC     |            |              |     |            |                |              |              |                      |         |         |
| Total/NA                  | Prep       | 7470A        |     |            | 25 mL          | 25 mL        | 450385       | 10/27/23 10:00       | MTW     | EET PIT |
| Total/NA                  | Analysis   | EPA 7470A    |     | 1          |                |              | 450425       | 10/27/23 13:45       | MTW     | EET PIT |
| Instrument ID: HGZ        |            |              |     |            |                |              |              |                      |         |         |
| Total/NA                  | Analysis   | SM 2540C     |     | 1          | 100 mL         | 100 mL       | 450441       | 10/27/23 19:55       | LWM     | EET PIT |
| Instrument ID: NOEQUIP    |            |              |     |            |                |              |              |                      |         |         |

## Client Sample ID: DUP-01

## Lab Sample ID: 180-164433-8

Date Collected: 10/24/23 13:01

Matrix: Water

Date Received: 10/26/23 10:30

| Prep Type                 | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA                  | Analysis   | EPA 9056A    |     | 1          | 1 mL           | 1 mL         | 450294       | 10/27/23 06:31       | M1D     | EET PIT |
| Instrument ID: CHICS2100B |            |              |     |            |                |              |              |                      |         |         |
| Total Recoverable         | Prep       | 3005A        |     |            | 25 mL          | 125 mL       | 805272       | 10/30/23 06:55       | RR      | EET SAV |
| Total Recoverable         | Analysis   | 6020B        |     | 1          |                |              | 805687       | 10/31/23 14:15       | BWR     | EET SAV |
| Instrument ID: ICPMSC     |            |              |     |            |                |              |              |                      |         |         |
| Total/NA                  | Prep       | 7470A        |     |            | 25 mL          | 25 mL        | 450385       | 10/27/23 10:00       | MTW     | EET PIT |
| Total/NA                  | Analysis   | EPA 7470A    |     | 1          |                |              | 450425       | 10/27/23 13:46       | MTW     | EET PIT |
| Instrument ID: HGZ        |            |              |     |            |                |              |              |                      |         |         |
| Total/NA                  | Analysis   | SM 2540C     |     | 1          | 100 mL         | 100 mL       | 450441       | 10/27/23 19:55       | LWM     | EET PIT |
| Instrument ID: NOEQUIP    |            |              |     |            |                |              |              |                      |         |         |

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-1

**Client Sample ID: BAW-3**  
**Date Collected: 10/25/23 09:49**  
**Date Received: 10/26/23 10:30**

**Lab Sample ID: 180-164433-9**  
**Matrix: Water**

| Prep Type                 | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|---------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA                  | Analysis   | EPA 9056A      |     | 1          | 1 mL           | 1 mL         | 450294       | 10/27/23 06:46       | M1D     | EET PIT |
| Instrument ID: CHICS2100B |            |                |     |            |                |              |              |                      |         |         |
| Total Recoverable         | Prep       | 3005A          |     |            | 25 mL          | 125 mL       | 805280       | 10/30/23 07:59       | RR      | EET SAV |
| Total Recoverable         | Analysis   | 6020B          |     | 1          |                |              | 805687       | 10/31/23 15:57       | BWR     | EET SAV |
| Instrument ID: ICPMSC     |            |                |     |            |                |              |              |                      |         |         |
| Total/NA                  | Prep       | 7470A          |     |            | 25 mL          | 25 mL        | 450385       | 10/27/23 10:00       | MTW     | EET PIT |
| Total/NA                  | Analysis   | EPA 7470A      |     | 1          |                |              | 450425       | 10/27/23 13:47       | MTW     | EET PIT |
| Instrument ID: HGZ        |            |                |     |            |                |              |              |                      |         |         |
| Total/NA                  | Analysis   | SM 2540C       |     | 1          | 100 mL         | 100 mL       | 450441       | 10/27/23 19:55       | LWM     | EET PIT |
| Instrument ID: NOEQUIP    |            |                |     |            |                |              |              |                      |         |         |
| Total/NA                  | Analysis   | Field Sampling |     | 1          |                |              | 451747       | 10/25/23 10:49       | FDS     | EET PIT |
| Instrument ID: NOEQUIP    |            |                |     |            |                |              |              |                      |         |         |

**Client Sample ID: BAW-4**  
**Date Collected: 10/25/23 12:35**  
**Date Received: 10/26/23 10:30**

**Lab Sample ID: 180-164433-10**  
**Matrix: Water**

| Prep Type                 | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|---------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA                  | Analysis   | EPA 9056A      |     | 1          | 1 mL           | 1 mL         | 450294       | 10/27/23 07:45       | M1D     | EET PIT |
| Instrument ID: CHICS2100B |            |                |     |            |                |              |              |                      |         |         |
| Total Recoverable         | Prep       | 3005A          |     |            | 25 mL          | 125 mL       | 805283       | 10/30/23 08:06       | RR      | EET SAV |
| Total Recoverable         | Analysis   | 6020B          |     | 1          |                |              | 805687       | 10/31/23 12:33       | BWR     | EET SAV |
| Instrument ID: ICPMSC     |            |                |     |            |                |              |              |                      |         |         |
| Total/NA                  | Prep       | 7470A          |     |            | 25 mL          | 25 mL        | 450385       | 10/27/23 10:00       | MTW     | EET PIT |
| Total/NA                  | Analysis   | EPA 7470A      |     | 1          |                |              | 450425       | 10/27/23 13:48       | MTW     | EET PIT |
| Instrument ID: HGZ        |            |                |     |            |                |              |              |                      |         |         |
| Total/NA                  | Analysis   | SM 2540C       |     | 1          | 100 mL         | 100 mL       | 450441       | 10/27/23 19:55       | LWM     | EET PIT |
| Instrument ID: NOEQUIP    |            |                |     |            |                |              |              |                      |         |         |
| Total/NA                  | Analysis   | Field Sampling |     | 1          |                |              | 451747       | 10/25/23 13:35       | FDS     | EET PIT |
| Instrument ID: NOEQUIP    |            |                |     |            |                |              |              |                      |         |         |

**Client Sample ID: BAW-5**  
**Date Collected: 10/25/23 14:05**  
**Date Received: 10/26/23 10:30**

**Lab Sample ID: 180-164433-11**  
**Matrix: Water**

| Prep Type                 | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA                  | Analysis   | EPA 9056A    |     | 1          | 1 mL           | 1 mL         | 450294       | 10/27/23 07:01       | M1D     | EET PIT |
| Instrument ID: CHICS2100B |            |              |     |            |                |              |              |                      |         |         |
| Total Recoverable         | Prep       | 3005A        |     |            | 25 mL          | 125 mL       | 805283       | 10/30/23 08:06       | RR      | EET SAV |
| Total Recoverable         | Analysis   | 6020B        |     | 1          |                |              | 805687       | 10/31/23 12:29       | BWR     | EET SAV |
| Instrument ID: ICPMSC     |            |              |     |            |                |              |              |                      |         |         |
| Total/NA                  | Prep       | 7470A        |     |            | 25 mL          | 25 mL        | 450385       | 10/27/23 10:00       | MTW     | EET PIT |
| Total/NA                  | Analysis   | EPA 7470A    |     | 1          |                |              | 450425       | 10/27/23 13:49       | MTW     | EET PIT |
| Instrument ID: HGZ        |            |              |     |            |                |              |              |                      |         |         |

# Lab Chronicle

Client: Southern Company  
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-1

**Client Sample ID: BAW-5**  
**Date Collected: 10/25/23 14:05**  
**Date Received: 10/26/23 10:30**

**Lab Sample ID: 180-164433-11**  
**Matrix: Water**

| Prep Type              | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA               | Analysis   | SM 2540C       |     | 1          | 100 mL         | 100 mL       | 450441       | 10/27/23 19:55       | LWM     | EET PIT |
| Total/NA               | Analysis   | Field Sampling |     | 1          |                |              | 451747       | 10/25/23 15:05       | FDS     | EET PIT |
| Instrument ID: NOEQUIP |            |                |     |            |                |              |              |                      |         |         |

**Client Sample ID: DUP-02**  
**Date Collected: 10/25/23 08:49**  
**Date Received: 10/26/23 10:30**

**Lab Sample ID: 180-164433-12**  
**Matrix: Water**

| Prep Type                 | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA                  | Analysis   | EPA 9056A    |     | 1          | 1 mL           | 1 mL         | 450294       | 10/27/23 08:29       | M1D     | EET PIT |
| Instrument ID: CHICS2100B |            |              |     |            |                |              |              |                      |         |         |
| Total Recoverable         | Prep       | 3005A        |     |            | 25 mL          | 125 mL       | 805280       | 10/30/23 07:59       | RR      | EET SAV |
| Total Recoverable         | Analysis   | 6020B        |     | 1          |                |              | 805687       | 10/31/23 16:13       | BWR     | EET SAV |
| Instrument ID: ICPMSC     |            |              |     |            |                |              |              |                      |         |         |
| Total/NA                  | Prep       | 7470A        |     |            | 25 mL          | 25 mL        | 450385       | 10/27/23 10:00       | MTW     | EET PIT |
| Total/NA                  | Analysis   | EPA 7470A    |     | 1          |                |              | 450425       | 10/27/23 13:50       | MTW     | EET PIT |
| Instrument ID: HGZ        |            |              |     |            |                |              |              |                      |         |         |
| Total/NA                  | Analysis   | SM 2540C     |     | 1          | 100 mL         | 100 mL       | 450441       | 10/27/23 19:55       | LWM     | EET PIT |
| Instrument ID: NOEQUIP    |            |              |     |            |                |              |              |                      |         |         |

**Laboratory References:**

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058  
 EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

**Analyst References:**

Lab: EET PIT  
 Batch Type: Prep  
     MTW = Michael Wesoloski  
 Batch Type: Analysis  
     FDS = Sampler Field  
     LWM = Leslie McIntire  
     M1D = Maureen Donlin  
     MTW = Michael Wesoloski  
 Lab: EET SAV  
 Batch Type: Prep  
     RR = Robert Rancourt  
 Batch Type: Analysis  
     BWR = Bryn Robertson

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-1

**Client Sample ID: BAW-7**

**Lab Sample ID: 180-164433-1**

Date Collected: 10/24/23 11:20

Matrix: Water

Date Received: 10/26/23 10:30

**Method: SW846 EPA 9056A - Anions, Ion Chromatography**

| Analyte  | Result  | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|---------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride | 8.57    | B         | 1.00  | 0.713  | mg/L |   |          | 10/27/23 03:48 | 1       |
| Fluoride | <0.0260 |           | 0.100 | 0.0260 | mg/L |   |          | 10/27/23 03:48 | 1       |
| Sulfate  | 2.11    |           | 1.00  | 0.756  | mg/L |   |          | 10/27/23 03:48 | 1       |

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

| Analyte    | Result     | Qualifier | RL       | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Antimony   | <0.000340  |           | 0.00200  | 0.000340  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:44 | 1       |
| Arsenic    | <0.000860  |           | 0.00100  | 0.000860  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:44 | 1       |
| Barium     | 0.0274     |           | 0.0100   | 0.000890  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:44 | 1       |
| Beryllium  | <0.000200  |           | 0.00100  | 0.000200  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:44 | 1       |
| Boron      | 0.0336     | J         | 0.0800   | 0.0220    | mg/L |   | 10/30/23 07:59 | 10/31/23 15:44 | 1       |
| Cadmium    | <0.0000780 |           | 0.00100  | 0.0000780 | mg/L |   | 10/30/23 07:59 | 10/31/23 15:44 | 1       |
| Calcium    | 1.30       |           | 0.500    | 0.140     | mg/L |   | 10/30/23 07:59 | 10/31/23 15:44 | 1       |
| Chromium   | <0.00120   |           | 0.00200  | 0.00120   | mg/L |   | 10/30/23 07:59 | 10/31/23 15:44 | 1       |
| Cobalt     | 0.00143    |           | 0.000500 | 0.000220  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:44 | 1       |
| Lead       | <0.000210  |           | 0.00100  | 0.000210  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:44 | 1       |
| Lithium    | 0.00555    |           | 0.00500  | 0.00200   | mg/L |   | 10/30/23 07:59 | 10/31/23 15:44 | 1       |
| Molybdenum | <0.000860  |           | 0.00500  | 0.000860  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:44 | 1       |
| Selenium   | <0.000990  |           | 0.00500  | 0.000990  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:44 | 1       |
| Thallium   | <0.000260  |           | 0.00100  | 0.000260  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:44 | 1       |

**Method: SW846 EPA 7470A - Mercury (CVAA)**

| Analyte | Result    | Qualifier | RL       | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000130 |           | 0.000200 | 0.000130 | mg/L |   | 10/27/23 10:00 | 10/27/23 13:35 | 1       |

**General Chemistry**

| Analyte                           | Result | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | 42.0   |           | 10.0 | 10.0 | mg/L |   |          | 10/27/23 19:36 | 1       |

**Method: EPA Field Sampling - Field Sampling**

| Analyte  | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 4.91   |           |    |     | SU   |   |          | 10/24/23 12:20 | 1       |

**Client Sample ID: BAW-1**

**Lab Sample ID: 180-164433-2**

Date Collected: 10/24/23 12:25

Matrix: Water

Date Received: 10/26/23 10:30

**Method: SW846 EPA 9056A - Anions, Ion Chromatography**

| Analyte  | Result  | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|---------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride | 6.29    | B         | 1.00  | 0.713  | mg/L |   |          | 10/27/23 04:33 | 1       |
| Fluoride | <0.0260 |           | 0.100 | 0.0260 | mg/L |   |          | 10/27/23 04:33 | 1       |
| Sulfate  | 1.80    |           | 1.00  | 0.756  | mg/L |   |          | 10/27/23 04:33 | 1       |

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

| Analyte   | Result     | Qualifier | RL      | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|------------|-----------|---------|-----------|------|---|----------------|----------------|---------|
| Antimony  | <0.000340  |           | 0.00200 | 0.000340  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:48 | 1       |
| Arsenic   | <0.000860  |           | 0.00100 | 0.000860  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:48 | 1       |
| Barium    | 0.0323     |           | 0.0100  | 0.000890  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:48 | 1       |
| Beryllium | <0.000200  |           | 0.00100 | 0.000200  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:48 | 1       |
| Boron     | <0.0220    |           | 0.0800  | 0.0220    | mg/L |   | 10/30/23 07:59 | 10/31/23 15:48 | 1       |
| Cadmium   | <0.0000780 |           | 0.00100 | 0.0000780 | mg/L |   | 10/30/23 07:59 | 10/31/23 15:48 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-1

**Client Sample ID: BAW-1**

**Lab Sample ID: 180-164433-2**

Date Collected: 10/24/23 12:25

Matrix: Water

Date Received: 10/26/23 10:30

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)**

| Analyte        | Result         | Qualifier | RL       | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------|----------------|-----------|----------|----------|------|---|----------------|----------------|---------|
| <b>Calcium</b> | <b>0.918</b>   |           | 0.500    | 0.140    | mg/L |   | 10/30/23 07:59 | 10/31/23 15:48 | 1       |
| Chromium       | <0.00120       |           | 0.00200  | 0.00120  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:48 | 1       |
| <b>Cobalt</b>  | <b>0.00123</b> |           | 0.000500 | 0.000220 | mg/L |   | 10/30/23 07:59 | 10/31/23 15:48 | 1       |
| Lead           | <0.000210      |           | 0.00100  | 0.000210 | mg/L |   | 10/30/23 07:59 | 10/31/23 15:48 | 1       |
| Lithium        | <0.00200       |           | 0.00500  | 0.00200  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:48 | 1       |
| Molybdenum     | <0.000860      |           | 0.00500  | 0.000860 | mg/L |   | 10/30/23 07:59 | 10/31/23 15:48 | 1       |
| Selenium       | <0.000990      |           | 0.00500  | 0.000990 | mg/L |   | 10/30/23 07:59 | 10/31/23 15:48 | 1       |
| Thallium       | <0.000260      |           | 0.00100  | 0.000260 | mg/L |   | 10/30/23 07:59 | 10/31/23 15:48 | 1       |

**Method: SW846 EPA 7470A - Mercury (CVAA)**

| Analyte | Result    | Qualifier | RL       | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000130 |           | 0.000200 | 0.000130 | mg/L |   | 10/27/23 10:00 | 10/27/23 13:36 | 1       |

**General Chemistry**

| Analyte                                  | Result      | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|-------------|-----------|------|------|------|---|----------|----------------|---------|
| <b>Total Dissolved Solids (SM 2540C)</b> | <b>28.0</b> |           | 10.0 | 10.0 | mg/L |   |          | 10/27/23 19:36 | 1       |

**Method: EPA Field Sampling - Field Sampling**

| Analyte         | Result      | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------|-------------|-----------|----|-----|------|---|----------|----------------|---------|
| <b>Field pH</b> | <b>4.99</b> |           |    |     | SU   |   |          | 10/24/23 13:25 | 1       |

**Client Sample ID: BAW-2A**

**Lab Sample ID: 180-164433-3**

Date Collected: 10/24/23 14:01

Matrix: Water

Date Received: 10/26/23 10:30

**Method: SW846 EPA 9056A - Anions, Ion Chromatography**

| Analyte         | Result        | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------|---------------|-----------|-------|--------|------|---|----------|----------------|---------|
| <b>Chloride</b> | <b>10.0</b>   | <b>B</b>  | 1.00  | 0.713  | mg/L |   |          | 10/27/23 04:48 | 1       |
| <b>Fluoride</b> | <b>0.0276</b> | <b>J</b>  | 0.100 | 0.0260 | mg/L |   |          | 10/27/23 04:48 | 1       |
| <b>Sulfate</b>  | <b>7.68</b>   |           | 1.00  | 0.756  | mg/L |   |          | 10/27/23 04:48 | 1       |

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

| Analyte        | Result          | Qualifier | RL       | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Antimony       | <0.000340       |           | 0.00200  | 0.000340  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:40 | 1       |
| Arsenic        | <0.000860       |           | 0.00100  | 0.000860  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:40 | 1       |
| <b>Barium</b>  | <b>0.0244</b>   |           | 0.0100   | 0.000890  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:40 | 1       |
| Beryllium      | <0.000200       |           | 0.00100  | 0.000200  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:40 | 1       |
| <b>Boron</b>   | <b>0.0502</b>   | <b>J</b>  | 0.0800   | 0.0220    | mg/L |   | 10/30/23 07:59 | 10/31/23 15:40 | 1       |
| Cadmium        | <0.0000780      |           | 0.00100  | 0.0000780 | mg/L |   | 10/30/23 07:59 | 10/31/23 15:40 | 1       |
| <b>Calcium</b> | <b>0.498</b>    | <b>J</b>  | 0.500    | 0.140     | mg/L |   | 10/30/23 07:59 | 10/31/23 15:40 | 1       |
| Chromium       | <0.00120        |           | 0.00200  | 0.00120   | mg/L |   | 10/30/23 07:59 | 10/31/23 15:40 | 1       |
| <b>Cobalt</b>  | <b>0.000565</b> |           | 0.000500 | 0.000220  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:40 | 1       |
| Lead           | <0.000210       |           | 0.00100  | 0.000210  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:40 | 1       |
| Lithium        | <0.00200        |           | 0.00500  | 0.00200   | mg/L |   | 10/30/23 07:59 | 10/31/23 15:40 | 1       |
| Molybdenum     | <0.000860       |           | 0.00500  | 0.000860  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:40 | 1       |
| Selenium       | <0.000990       |           | 0.00500  | 0.000990  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:40 | 1       |
| Thallium       | <0.000260       |           | 0.00100  | 0.000260  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:40 | 1       |

**Method: SW846 EPA 7470A - Mercury (CVAA)**

| Analyte | Result    | Qualifier | RL       | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000130 |           | 0.000200 | 0.000130 | mg/L |   | 10/27/23 10:00 | 10/27/23 13:37 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-1

**Client Sample ID: BAW-2A**

**Lab Sample ID: 180-164433-3**

Date Collected: 10/24/23 14:01

Matrix: Water

Date Received: 10/26/23 10:30

**General Chemistry**

| Analyte                           | Result | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | 35.0   |           | 10.0 | 10.0 | mg/L |   |          | 10/27/23 19:36 | 1       |

**Method: EPA Field Sampling - Field Sampling**

| Analyte  | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 4.98   |           |    |     | SU   |   |          | 10/24/23 15:01 | 1       |

**Client Sample ID: BAW-8**

**Lab Sample ID: 180-164433-4**

Date Collected: 10/24/23 16:35

Matrix: Water

Date Received: 10/26/23 10:30

**Method: SW846 EPA 9056A - Anions, Ion Chromatography**

| Analyte  | Result | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride | 12.2   | B         | 1.00  | 0.713  | mg/L |   |          | 10/27/23 05:02 | 1       |
| Fluoride | 0.0634 | J         | 0.100 | 0.0260 | mg/L |   |          | 10/27/23 05:02 | 1       |
| Sulfate  | 41.6   |           | 1.00  | 0.756  | mg/L |   |          | 10/27/23 05:02 | 1       |

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

| Analyte    | Result    | Qualifier | RL       | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|-----------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Antimony   | <0.000340 |           | 0.00200  | 0.000340  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:13 | 1       |
| Arsenic    | 0.00426   |           | 0.00100  | 0.000860  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:13 | 1       |
| Barium     | 0.0842    |           | 0.0100   | 0.000890  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:13 | 1       |
| Beryllium  | <0.000200 |           | 0.00100  | 0.000200  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:13 | 1       |
| Boron      | 0.808     |           | 0.0800   | 0.0220    | mg/L |   | 10/30/23 08:06 | 10/31/23 12:13 | 1       |
| Cadmium    | 0.000120  | J         | 0.00100  | 0.0000780 | mg/L |   | 10/30/23 08:06 | 10/31/23 12:13 | 1       |
| Calcium    | 24.2      |           | 0.500    | 0.140     | mg/L |   | 10/30/23 08:06 | 10/31/23 12:13 | 1       |
| Chromium   | <0.00120  |           | 0.00200  | 0.00120   | mg/L |   | 10/30/23 08:06 | 10/31/23 12:13 | 1       |
| Cobalt     | 0.00772   |           | 0.000500 | 0.000220  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:13 | 1       |
| Lead       | <0.000210 |           | 0.00100  | 0.000210  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:13 | 1       |
| Lithium    | 0.0582    |           | 0.00500  | 0.00200   | mg/L |   | 10/30/23 08:06 | 10/31/23 12:13 | 1       |
| Molybdenum | 0.00300   | J         | 0.00500  | 0.000860  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:13 | 1       |
| Selenium   | <0.000990 |           | 0.00500  | 0.000990  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:13 | 1       |
| Thallium   | <0.000260 |           | 0.00100  | 0.000260  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:13 | 1       |

**Method: SW846 EPA 7470A - Mercury (CVAA)**

| Analyte | Result    | Qualifier | RL       | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000130 |           | 0.000200 | 0.000130 | mg/L |   | 10/27/23 10:00 | 10/27/23 13:38 | 1       |

**General Chemistry**

| Analyte                           | Result | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | 211    |           | 10.0 | 10.0 | mg/L |   |          | 10/27/23 19:36 | 1       |

**Method: EPA Field Sampling - Field Sampling**

| Analyte  | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 6.18   |           |    |     | SU   |   |          | 10/24/23 17:35 | 1       |

**Client Sample ID: BAW-9**

**Lab Sample ID: 180-164433-5**

Date Collected: 10/24/23 18:30

Matrix: Water

Date Received: 10/26/23 10:30

**Method: SW846 EPA 9056A - Anions, Ion Chromatography**

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 11.3   | B         | 1.00 | 0.713 | mg/L |   |          | 10/27/23 05:17 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-1

**Client Sample ID: BAW-9**

**Lab Sample ID: 180-164433-5**

Date Collected: 10/24/23 18:30

Matrix: Water

Date Received: 10/26/23 10:30

**Method: SW846 EPA 9056A - Anions, Ion Chromatography (Continued)**

| Analyte  | Result | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Fluoride | 0.0680 | J         | 0.100 | 0.0260 | mg/L |   |          | 10/27/23 05:17 | 1       |
| Sulfate  | 31.0   |           | 1.00  | 0.756  | mg/L |   |          | 10/27/23 05:17 | 1       |

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

| Analyte    | Result     | Qualifier | RL       | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Antimony   | <0.000340  |           | 0.00200  | 0.000340  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:25 | 1       |
| Arsenic    | 0.00873    |           | 0.00100  | 0.000860  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:25 | 1       |
| Barium     | 0.0602     |           | 0.0100   | 0.000890  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:25 | 1       |
| Beryllium  | <0.000200  |           | 0.00100  | 0.000200  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:25 | 1       |
| Boron      | 0.613      |           | 0.0800   | 0.0220    | mg/L |   | 10/30/23 08:06 | 10/31/23 12:25 | 1       |
| Cadmium    | <0.0000780 |           | 0.00100  | 0.0000780 | mg/L |   | 10/30/23 08:06 | 10/31/23 12:25 | 1       |
| Calcium    | 14.3       |           | 0.500    | 0.140     | mg/L |   | 10/30/23 08:06 | 10/31/23 12:25 | 1       |
| Chromium   | <0.00120   |           | 0.00200  | 0.00120   | mg/L |   | 10/30/23 08:06 | 10/31/23 12:25 | 1       |
| Cobalt     | 0.00426    |           | 0.000500 | 0.000220  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:25 | 1       |
| Lead       | <0.000210  |           | 0.00100  | 0.000210  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:25 | 1       |
| Lithium    | 0.0283     |           | 0.00500  | 0.00200   | mg/L |   | 10/30/23 08:06 | 10/31/23 12:25 | 1       |
| Molybdenum | 0.00463    | J         | 0.00500  | 0.000860  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:25 | 1       |
| Selenium   | <0.000990  |           | 0.00500  | 0.000990  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:25 | 1       |
| Thallium   | <0.000260  |           | 0.00100  | 0.000260  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:25 | 1       |

**Method: SW846 EPA 7470A - Mercury (CVAA)**

| Analyte | Result    | Qualifier | RL       | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000130 |           | 0.000200 | 0.000130 | mg/L |   | 10/27/23 10:00 | 10/27/23 13:42 | 1       |

**General Chemistry**

| Analyte                           | Result | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | 138    |           | 10.0 | 10.0 | mg/L |   |          | 10/27/23 19:55 | 1       |

**Method: EPA Field Sampling - Field Sampling**

| Analyte  | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 6.14   |           |    |     | SU   |   |          | 10/24/23 19:30 | 1       |

**Client Sample ID: EB-01**

**Lab Sample ID: 180-164433-6**

Date Collected: 10/24/23 15:07

Matrix: Water

Date Received: 10/26/23 10:30

**Method: SW846 EPA 9056A - Anions, Ion Chromatography**

| Analyte  | Result  | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|---------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride | <0.713  |           | 1.00  | 0.713  | mg/L |   |          | 10/27/23 05:32 | 1       |
| Fluoride | <0.0260 |           | 0.100 | 0.0260 | mg/L |   |          | 10/27/23 05:32 | 1       |
| Sulfate  | <0.756  |           | 1.00  | 0.756  | mg/L |   |          | 10/27/23 05:32 | 1       |

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

| Analyte   | Result     | Qualifier | RL      | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|------------|-----------|---------|-----------|------|---|----------------|----------------|---------|
| Antimony  | <0.000340  |           | 0.00200 | 0.000340  | mg/L |   | 10/30/23 07:59 | 10/31/23 16:01 | 1       |
| Arsenic   | <0.000860  |           | 0.00100 | 0.000860  | mg/L |   | 10/30/23 07:59 | 10/31/23 16:01 | 1       |
| Barium    | <0.000890  |           | 0.0100  | 0.000890  | mg/L |   | 10/30/23 07:59 | 10/31/23 16:01 | 1       |
| Beryllium | <0.000200  |           | 0.00100 | 0.000200  | mg/L |   | 10/30/23 07:59 | 10/31/23 16:01 | 1       |
| Boron     | <0.0220    |           | 0.0800  | 0.0220    | mg/L |   | 10/30/23 07:59 | 10/31/23 16:01 | 1       |
| Cadmium   | <0.0000780 |           | 0.00100 | 0.0000780 | mg/L |   | 10/30/23 07:59 | 10/31/23 16:01 | 1       |
| Calcium   | <0.140     |           | 0.500   | 0.140     | mg/L |   | 10/30/23 07:59 | 10/31/23 16:01 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-1

**Client Sample ID: EB-01**

**Lab Sample ID: 180-164433-6**

Date Collected: 10/24/23 15:07

Matrix: Water

Date Received: 10/26/23 10:30

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)**

| Analyte    | Result    | Qualifier | RL       | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Chromium   | <0.00120  |           | 0.00200  | 0.00120  | mg/L |   | 10/30/23 07:59 | 10/31/23 16:01 | 1       |
| Cobalt     | <0.000220 |           | 0.000500 | 0.000220 | mg/L |   | 10/30/23 07:59 | 10/31/23 16:01 | 1       |
| Lead       | <0.000210 |           | 0.00100  | 0.000210 | mg/L |   | 10/30/23 07:59 | 10/31/23 16:01 | 1       |
| Lithium    | <0.00200  |           | 0.00500  | 0.00200  | mg/L |   | 10/30/23 07:59 | 10/31/23 16:01 | 1       |
| Molybdenum | <0.000860 |           | 0.00500  | 0.000860 | mg/L |   | 10/30/23 07:59 | 10/31/23 16:01 | 1       |
| Selenium   | <0.000990 |           | 0.00500  | 0.000990 | mg/L |   | 10/30/23 07:59 | 10/31/23 16:01 | 1       |
| Thallium   | <0.000260 |           | 0.00100  | 0.000260 | mg/L |   | 10/30/23 07:59 | 10/31/23 16:01 | 1       |

**Method: SW846 EPA 7470A - Mercury (CVAA)**

| Analyte | Result    | Qualifier | RL       | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000130 |           | 0.000200 | 0.000130 | mg/L |   | 10/27/23 10:00 | 10/27/23 13:44 | 1       |

**General Chemistry**

| Analyte                           | Result | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | <10.0  |           | 10.0 | 10.0 | mg/L |   |          | 10/27/23 19:55 | 1       |

**Client Sample ID: FB-01**

**Lab Sample ID: 180-164433-7**

Date Collected: 10/24/23 15:25

Matrix: Water

Date Received: 10/26/23 10:30

**Method: SW846 EPA 9056A - Anions, Ion Chromatography**

| Analyte  | Result  | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|---------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride | <0.713  |           | 1.00  | 0.713  | mg/L |   |          | 10/27/23 06:16 | 1       |
| Fluoride | <0.0260 |           | 0.100 | 0.0260 | mg/L |   |          | 10/27/23 06:16 | 1       |
| Sulfate  | <0.756  |           | 1.00  | 0.756  | mg/L |   |          | 10/27/23 06:16 | 1       |

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

| Analyte    | Result          | Qualifier | RL       | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|-----------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Antimony   | <0.000340       |           | 0.00200  | 0.000340  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:53 | 1       |
| Arsenic    | <0.000860       |           | 0.00100  | 0.000860  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:53 | 1       |
| Barium     | <b>0.000970</b> | <b>J</b>  | 0.0100   | 0.000890  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:53 | 1       |
| Beryllium  | <0.000200       |           | 0.00100  | 0.000200  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:53 | 1       |
| Boron      | <0.0220         |           | 0.0800   | 0.0220    | mg/L |   | 10/30/23 07:59 | 10/31/23 15:53 | 1       |
| Cadmium    | <0.0000780      |           | 0.00100  | 0.0000780 | mg/L |   | 10/30/23 07:59 | 10/31/23 15:53 | 1       |
| Calcium    | <0.140          |           | 0.500    | 0.140     | mg/L |   | 10/30/23 07:59 | 10/31/23 15:53 | 1       |
| Chromium   | <0.00120        |           | 0.00200  | 0.00120   | mg/L |   | 10/30/23 07:59 | 10/31/23 15:53 | 1       |
| Cobalt     | <0.000220       |           | 0.000500 | 0.000220  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:53 | 1       |
| Lead       | <0.000210       |           | 0.00100  | 0.000210  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:53 | 1       |
| Lithium    | <0.00200        |           | 0.00500  | 0.00200   | mg/L |   | 10/30/23 07:59 | 10/31/23 15:53 | 1       |
| Molybdenum | <0.000860       |           | 0.00500  | 0.000860  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:53 | 1       |
| Selenium   | <0.000990       |           | 0.00500  | 0.000990  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:53 | 1       |
| Thallium   | <0.000260       |           | 0.00100  | 0.000260  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:53 | 1       |

**Method: SW846 EPA 7470A - Mercury (CVAA)**

| Analyte | Result    | Qualifier | RL       | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000130 |           | 0.000200 | 0.000130 | mg/L |   | 10/27/23 10:00 | 10/27/23 13:45 | 1       |

**General Chemistry**

| Analyte                           | Result | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | <10.0  |           | 10.0 | 10.0 | mg/L |   |          | 10/27/23 19:55 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-1

**Client Sample ID: DUP-01**

**Lab Sample ID: 180-164433-8**

Date Collected: 10/24/23 13:01

Matrix: Water

Date Received: 10/26/23 10:30

**Method: SW846 EPA 9056A - Anions, Ion Chromatography**

| Analyte  | Result | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride | 9.88   | B         | 1.00  | 0.713  | mg/L |   |          | 10/27/23 06:31 | 1       |
| Fluoride | 0.0293 | J         | 0.100 | 0.0260 | mg/L |   |          | 10/27/23 06:31 | 1       |
| Sulfate  | 7.37   |           | 1.00  | 0.756  | mg/L |   |          | 10/27/23 06:31 | 1       |

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

| Analyte    | Result     | Qualifier | RL       | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Antimony   | <0.000340  |           | 0.00200  | 0.000340  | mg/L |   | 10/30/23 06:55 | 10/31/23 14:15 | 1       |
| Arsenic    | <0.000860  |           | 0.00100  | 0.000860  | mg/L |   | 10/30/23 06:55 | 10/31/23 14:15 | 1       |
| Barium     | 0.0249     |           | 0.0100   | 0.000890  | mg/L |   | 10/30/23 06:55 | 10/31/23 14:15 | 1       |
| Beryllium  | <0.000200  |           | 0.00100  | 0.000200  | mg/L |   | 10/30/23 06:55 | 10/31/23 14:15 | 1       |
| Boron      | 0.0526     | J         | 0.0800   | 0.0220    | mg/L |   | 10/30/23 06:55 | 10/31/23 14:15 | 1       |
| Cadmium    | <0.0000780 |           | 0.00100  | 0.0000780 | mg/L |   | 10/30/23 06:55 | 10/31/23 14:15 | 1       |
| Calcium    | 0.504      |           | 0.500    | 0.140     | mg/L |   | 10/30/23 06:55 | 10/31/23 14:15 | 1       |
| Chromium   | <0.00120   |           | 0.00200  | 0.00120   | mg/L |   | 10/30/23 06:55 | 10/31/23 14:15 | 1       |
| Cobalt     | 0.000610   |           | 0.000500 | 0.000220  | mg/L |   | 10/30/23 06:55 | 10/31/23 14:15 | 1       |
| Lead       | <0.000210  |           | 0.00100  | 0.000210  | mg/L |   | 10/30/23 06:55 | 10/31/23 14:15 | 1       |
| Lithium    | 0.00201    | J         | 0.00500  | 0.00200   | mg/L |   | 10/30/23 06:55 | 10/31/23 14:15 | 1       |
| Molybdenum | <0.000860  |           | 0.00500  | 0.000860  | mg/L |   | 10/30/23 06:55 | 10/31/23 14:15 | 1       |
| Selenium   | <0.000990  |           | 0.00500  | 0.000990  | mg/L |   | 10/30/23 06:55 | 10/31/23 14:15 | 1       |
| Thallium   | <0.000260  |           | 0.00100  | 0.000260  | mg/L |   | 10/30/23 06:55 | 10/31/23 14:15 | 1       |

**Method: SW846 EPA 7470A - Mercury (CVAA)**

| Analyte | Result    | Qualifier | RL       | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000130 |           | 0.000200 | 0.000130 | mg/L |   | 10/27/23 10:00 | 10/27/23 13:46 | 1       |

**General Chemistry**

| Analyte                           | Result | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | 31.0   |           | 10.0 | 10.0 | mg/L |   |          | 10/27/23 19:55 | 1       |

**Client Sample ID: BAW-3**

**Lab Sample ID: 180-164433-9**

Date Collected: 10/25/23 09:49

Matrix: Water

Date Received: 10/26/23 10:30

**Method: SW846 EPA 9056A - Anions, Ion Chromatography**

| Analyte  | Result  | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|---------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride | 5.50    | B         | 1.00  | 0.713  | mg/L |   |          | 10/27/23 06:46 | 1       |
| Fluoride | <0.0260 |           | 0.100 | 0.0260 | mg/L |   |          | 10/27/23 06:46 | 1       |
| Sulfate  | 8.72    |           | 1.00  | 0.756  | mg/L |   |          | 10/27/23 06:46 | 1       |

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

| Analyte   | Result    | Qualifier | RL       | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|-----------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Antimony  | <0.000340 |           | 0.00200  | 0.000340  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:57 | 1       |
| Arsenic   | <0.000860 |           | 0.00100  | 0.000860  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:57 | 1       |
| Barium    | 0.0427    |           | 0.0100   | 0.000890  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:57 | 1       |
| Beryllium | 0.000225  | J         | 0.00100  | 0.000200  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:57 | 1       |
| Boron     | <0.0220   |           | 0.0800   | 0.0220    | mg/L |   | 10/30/23 07:59 | 10/31/23 15:57 | 1       |
| Cadmium   | 0.000350  | J         | 0.00100  | 0.0000780 | mg/L |   | 10/30/23 07:59 | 10/31/23 15:57 | 1       |
| Calcium   | 0.875     |           | 0.500    | 0.140     | mg/L |   | 10/30/23 07:59 | 10/31/23 15:57 | 1       |
| Chromium  | <0.00120  |           | 0.00200  | 0.00120   | mg/L |   | 10/30/23 07:59 | 10/31/23 15:57 | 1       |
| Cobalt    | 0.00920   |           | 0.000500 | 0.000220  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:57 | 1       |
| Lead      | <0.000210 |           | 0.00100  | 0.000210  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:57 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-1

**Client Sample ID: BAW-3**

**Lab Sample ID: 180-164433-9**

Date Collected: 10/25/23 09:49

Matrix: Water

Date Received: 10/26/23 10:30

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)**

| Analyte    | Result    | Qualifier | RL      | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Lithium    | 0.00330   | J         | 0.00500 | 0.00200  | mg/L |   | 10/30/23 07:59 | 10/31/23 15:57 | 1       |
| Molybdenum | <0.000860 |           | 0.00500 | 0.000860 | mg/L |   | 10/30/23 07:59 | 10/31/23 15:57 | 1       |
| Selenium   | <0.000990 |           | 0.00500 | 0.000990 | mg/L |   | 10/30/23 07:59 | 10/31/23 15:57 | 1       |
| Thallium   | <0.000260 |           | 0.00100 | 0.000260 | mg/L |   | 10/30/23 07:59 | 10/31/23 15:57 | 1       |

**Method: SW846 EPA 7470A - Mercury (CVAA)**

| Analyte | Result    | Qualifier | RL       | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000130 |           | 0.000200 | 0.000130 | mg/L |   | 10/27/23 10:00 | 10/27/23 13:47 | 1       |

**General Chemistry**

| Analyte                           | Result | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | 19.0   |           | 10.0 | 10.0 | mg/L |   |          | 10/27/23 19:55 | 1       |

**Method: EPA Field Sampling - Field Sampling**

| Analyte  | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 4.43   |           |    |     | SU   |   |          | 10/25/23 10:49 | 1       |

**Client Sample ID: BAW-4**

**Lab Sample ID: 180-164433-10**

Date Collected: 10/25/23 12:35

Matrix: Water

Date Received: 10/26/23 10:30

**Method: SW846 EPA 9056A - Anions, Ion Chromatography**

| Analyte  | Result | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride | 7.60   |           | 1.00  | 0.713  | mg/L |   |          | 10/27/23 07:45 | 1       |
| Fluoride | 0.0393 | J         | 0.100 | 0.0260 | mg/L |   |          | 10/27/23 07:45 | 1       |
| Sulfate  | 12.5   |           | 1.00  | 0.756  | mg/L |   |          | 10/27/23 07:45 | 1       |

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

| Analyte    | Result     | Qualifier | RL       | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Antimony   | <0.000340  |           | 0.00200  | 0.000340  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:33 | 1       |
| Arsenic    | 0.00241    |           | 0.00100  | 0.000860  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:33 | 1       |
| Barium     | 0.0221     |           | 0.0100   | 0.000890  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:33 | 1       |
| Beryllium  | <0.000200  |           | 0.00100  | 0.000200  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:33 | 1       |
| Boron      | 0.122      |           | 0.0800   | 0.0220    | mg/L |   | 10/30/23 08:06 | 10/31/23 12:33 | 1       |
| Cadmium    | <0.0000780 |           | 0.00100  | 0.0000780 | mg/L |   | 10/30/23 08:06 | 10/31/23 12:33 | 1       |
| Calcium    | 5.35       |           | 0.500    | 0.140     | mg/L |   | 10/30/23 08:06 | 10/31/23 12:33 | 1       |
| Chromium   | <0.00120   |           | 0.00200  | 0.00120   | mg/L |   | 10/30/23 08:06 | 10/31/23 12:33 | 1       |
| Cobalt     | 0.00187    |           | 0.000500 | 0.000220  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:33 | 1       |
| Lead       | <0.000210  |           | 0.00100  | 0.000210  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:33 | 1       |
| Lithium    | 0.0123     |           | 0.00500  | 0.00200   | mg/L |   | 10/30/23 08:06 | 10/31/23 12:33 | 1       |
| Molybdenum | <0.000860  |           | 0.00500  | 0.000860  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:33 | 1       |
| Selenium   | <0.000990  |           | 0.00500  | 0.000990  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:33 | 1       |
| Thallium   | <0.000260  |           | 0.00100  | 0.000260  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:33 | 1       |

**Method: SW846 EPA 7470A - Mercury (CVAA)**

| Analyte | Result    | Qualifier | RL       | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000130 |           | 0.000200 | 0.000130 | mg/L |   | 10/27/23 10:00 | 10/27/23 13:48 | 1       |

**General Chemistry**

| Analyte                           | Result | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | 47.0   |           | 10.0 | 10.0 | mg/L |   |          | 10/27/23 19:55 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-1

**Client Sample ID: BAW-4**

**Lab Sample ID: 180-164433-10**

Date Collected: 10/25/23 12:35

Matrix: Water

Date Received: 10/26/23 10:30

**Method: EPA Field Sampling - Field Sampling**

| Analyte  | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 5.42   |           |    |     | SU   |   |          | 10/25/23 13:35 | 1       |

**Client Sample ID: BAW-5**

**Lab Sample ID: 180-164433-11**

Date Collected: 10/25/23 14:05

Matrix: Water

Date Received: 10/26/23 10:30

**Method: SW846 EPA 9056A - Anions, Ion Chromatography**

| Analyte  | Result | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride | 11.3   | B         | 1.00  | 0.713  | mg/L |   |          | 10/27/23 07:01 | 1       |
| Fluoride | 0.0858 | J         | 0.100 | 0.0260 | mg/L |   |          | 10/27/23 07:01 | 1       |
| Sulfate  | 37.5   |           | 1.00  | 0.756  | mg/L |   |          | 10/27/23 07:01 | 1       |

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

| Analyte    | Result     | Qualifier | RL       | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Antimony   | <0.000340  |           | 0.00200  | 0.000340  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:29 | 1       |
| Arsenic    | 0.00575    |           | 0.00100  | 0.000860  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:29 | 1       |
| Barium     | 0.0883     |           | 0.0100   | 0.000890  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:29 | 1       |
| Beryllium  | <0.000200  |           | 0.00100  | 0.000200  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:29 | 1       |
| Boron      | 0.877      |           | 0.0800   | 0.0220    | mg/L |   | 10/30/23 08:06 | 10/31/23 12:29 | 1       |
| Cadmium    | <0.0000780 |           | 0.00100  | 0.0000780 | mg/L |   | 10/30/23 08:06 | 10/31/23 12:29 | 1       |
| Calcium    | 25.9       |           | 0.500    | 0.140     | mg/L |   | 10/30/23 08:06 | 10/31/23 12:29 | 1       |
| Chromium   | <0.00120   |           | 0.00200  | 0.00120   | mg/L |   | 10/30/23 08:06 | 10/31/23 12:29 | 1       |
| Cobalt     | 0.000885   |           | 0.000500 | 0.000220  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:29 | 1       |
| Lead       | <0.000210  |           | 0.00100  | 0.000210  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:29 | 1       |
| Lithium    | 0.0679     |           | 0.00500  | 0.00200   | mg/L |   | 10/30/23 08:06 | 10/31/23 12:29 | 1       |
| Molybdenum | 0.00360    | J         | 0.00500  | 0.000860  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:29 | 1       |
| Selenium   | <0.000990  |           | 0.00500  | 0.000990  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:29 | 1       |
| Thallium   | <0.000260  |           | 0.00100  | 0.000260  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:29 | 1       |

**Method: SW846 EPA 7470A - Mercury (CVAA)**

| Analyte | Result    | Qualifier | RL       | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000130 |           | 0.000200 | 0.000130 | mg/L |   | 10/27/23 10:00 | 10/27/23 13:49 | 1       |

**General Chemistry**

| Analyte                           | Result | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | 161    |           | 10.0 | 10.0 | mg/L |   |          | 10/27/23 19:55 | 1       |

**Method: EPA Field Sampling - Field Sampling**

| Analyte  | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 6.11   |           |    |     | SU   |   |          | 10/25/23 15:05 | 1       |

**Client Sample ID: DUP-02**

**Lab Sample ID: 180-164433-12**

Date Collected: 10/25/23 08:49

Matrix: Water

Date Received: 10/26/23 10:30

**Method: SW846 EPA 9056A - Anions, Ion Chromatography**

| Analyte  | Result | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride | 5.41   |           | 1.00  | 0.713  | mg/L |   |          | 10/27/23 08:29 | 1       |
| Fluoride | 0.0306 | J         | 0.100 | 0.0260 | mg/L |   |          | 10/27/23 08:29 | 1       |
| Sulfate  | 8.56   |           | 1.00  | 0.756  | mg/L |   |          | 10/27/23 08:29 | 1       |

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# Client Sample Results

Client: Southern Company  
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-1

**Client Sample ID: DUP-02**  
**Date Collected: 10/25/23 08:49**  
**Date Received: 10/26/23 10:30**

**Lab Sample ID: 180-164433-12**  
**Matrix: Water**

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

| Analyte          | Result          | Qualifier | RL       | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Antimony         | <0.000340       |           | 0.00200  | 0.000340  | mg/L |   | 10/30/23 07:59 | 10/31/23 16:13 | 1       |
| Arsenic          | <0.000860       |           | 0.00100  | 0.000860  | mg/L |   | 10/30/23 07:59 | 10/31/23 16:13 | 1       |
| <b>Barium</b>    | <b>0.0420</b>   |           | 0.0100   | 0.000890  | mg/L |   | 10/30/23 07:59 | 10/31/23 16:13 | 1       |
| <b>Beryllium</b> | <b>0.000260</b> | <b>J</b>  | 0.00100  | 0.000200  | mg/L |   | 10/30/23 07:59 | 10/31/23 16:13 | 1       |
| Boron            | <0.0220         |           | 0.0800   | 0.0220    | mg/L |   | 10/30/23 07:59 | 10/31/23 16:13 | 1       |
| <b>Cadmium</b>   | <b>0.000390</b> | <b>J</b>  | 0.00100  | 0.0000780 | mg/L |   | 10/30/23 07:59 | 10/31/23 16:13 | 1       |
| <b>Calcium</b>   | <b>0.853</b>    |           | 0.500    | 0.140     | mg/L |   | 10/30/23 07:59 | 10/31/23 16:13 | 1       |
| Chromium         | <0.00120        |           | 0.00200  | 0.00120   | mg/L |   | 10/30/23 07:59 | 10/31/23 16:13 | 1       |
| <b>Cobalt</b>    | <b>0.00888</b>  |           | 0.000500 | 0.000220  | mg/L |   | 10/30/23 07:59 | 10/31/23 16:13 | 1       |
| Lead             | <0.000210       |           | 0.00100  | 0.000210  | mg/L |   | 10/30/23 07:59 | 10/31/23 16:13 | 1       |
| <b>Lithium</b>   | <b>0.00314</b>  | <b>J</b>  | 0.00500  | 0.00200   | mg/L |   | 10/30/23 07:59 | 10/31/23 16:13 | 1       |
| Molybdenum       | <0.000860       |           | 0.00500  | 0.000860  | mg/L |   | 10/30/23 07:59 | 10/31/23 16:13 | 1       |
| Selenium         | <0.000990       |           | 0.00500  | 0.000990  | mg/L |   | 10/30/23 07:59 | 10/31/23 16:13 | 1       |
| Thallium         | <0.000260       |           | 0.00100  | 0.000260  | mg/L |   | 10/30/23 07:59 | 10/31/23 16:13 | 1       |

**Method: SW846 EPA 7470A - Mercury (CVAA)**

| Analyte | Result    | Qualifier | RL       | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000130 |           | 0.000200 | 0.000130 | mg/L |   | 10/27/23 10:00 | 10/27/23 13:50 | 1       |

**General Chemistry**

| Analyte                                  | Result      | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|-------------|-----------|------|------|------|---|----------|----------------|---------|
| <b>Total Dissolved Solids (SM 2540C)</b> | <b>23.0</b> |           | 10.0 | 10.0 | mg/L |   |          | 10/27/23 19:55 | 1       |

# QC Sample Results

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-1

## Method: EPA 9056A - Anions, Ion Chromatography

**Lab Sample ID: MB 180-450294/37**  
**Matrix: Water**  
**Analysis Batch: 450294**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

| Analyte  | MB      | MB        | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|---------|-----------|-------|--------|------|---|----------|----------------|---------|
|          | Result  | Qualifier |       |        |      |   |          |                |         |
| Chloride | 0.7244  | J         | 1.00  | 0.713  | mg/L |   |          | 10/26/23 23:22 | 1       |
| Fluoride | <0.0260 |           | 0.100 | 0.0260 | mg/L |   |          | 10/26/23 23:22 | 1       |
| Sulfate  | <0.756  |           | 1.00  | 0.756  | mg/L |   |          | 10/26/23 23:22 | 1       |

**Lab Sample ID: MB 180-450294/69**  
**Matrix: Water**  
**Analysis Batch: 450294**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

| Analyte  | MB      | MB        | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|---------|-----------|-------|--------|------|---|----------|----------------|---------|
|          | Result  | Qualifier |       |        |      |   |          |                |         |
| Chloride | <0.713  |           | 1.00  | 0.713  | mg/L |   |          | 10/27/23 07:15 | 1       |
| Fluoride | <0.0260 |           | 0.100 | 0.0260 | mg/L |   |          | 10/27/23 07:15 | 1       |
| Sulfate  | <0.756  |           | 1.00  | 0.756  | mg/L |   |          | 10/27/23 07:15 | 1       |

**Lab Sample ID: LCS 180-450294/38**  
**Matrix: Water**  
**Analysis Batch: 450294**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
|          |             |            |               |      |   |      |             |
| Fluoride | 2.50        | 2.529      |               | mg/L |   | 101  | 80 - 120    |
| Sulfate  | 50.0        | 48.20      |               | mg/L |   | 96   | 80 - 120    |

**Lab Sample ID: LCS 180-450294/70**  
**Matrix: Water**  
**Analysis Batch: 450294**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
|          |             |            |               |      |   |      |             |
| Fluoride | 2.50        | 2.471      |               | mg/L |   | 99   | 80 - 120    |
| Sulfate  | 50.0        | 53.84      |               | mg/L |   | 108  | 80 - 120    |

**Lab Sample ID: 180-164433-1 MS**  
**Matrix: Water**  
**Analysis Batch: 450294**

**Client Sample ID: BAW-7**  
**Prep Type: Total/NA**

| Analyte  | Sample  | Sample    | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|---------|-----------|-------------|-----------|--------------|------|---|------|-------------|
|          | Result  | Qualifier |             |           |              |      |   |      |             |
| Chloride | 8.57    | B         | 50.0        | 60.22     |              | mg/L |   | 103  | 80 - 120    |
| Fluoride | <0.0260 |           | 2.50        | 2.731     |              | mg/L |   | 109  | 80 - 120    |
| Sulfate  | 2.11    |           | 50.0        | 55.36     |              | mg/L |   | 107  | 80 - 120    |

**Lab Sample ID: 180-164433-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 450294**

**Client Sample ID: BAW-7**  
**Prep Type: Total/NA**

| Analyte  | Sample  | Sample    | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------|-----------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
|          | Result  | Qualifier |             |            |               |      |   |      |             |     |           |
| Chloride | 8.57    | B         | 50.0        | 57.61      |               | mg/L |   | 98   | 80 - 120    | 4   | 15        |
| Fluoride | <0.0260 |           | 2.50        | 2.628      |               | mg/L |   | 105  | 80 - 120    | 4   | 15        |
| Sulfate  | 2.11    |           | 50.0        | 52.61      |               | mg/L |   | 101  | 80 - 120    | 5   | 15        |

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# QC Sample Results

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-1

## Method: EPA 9056A - Anions, Ion Chromatography (Continued)

**Lab Sample ID: 180-164433-10 MS**  
**Matrix: Water**  
**Analysis Batch: 450294**

**Client Sample ID: BAW-4**  
**Prep Type: Total/NA**

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Chloride | 7.60          |                  | 50.0        | 58.90     |              | mg/L |   | 103  | 80 - 120    |
| Fluoride | 0.0393        | J                | 2.50        | 2.783     |              | mg/L |   | 110  | 80 - 120    |
| Sulfate  | 12.5          |                  | 50.0        | 65.10     |              | mg/L |   | 105  | 80 - 120    |

**Lab Sample ID: 180-164433-10 MSD**  
**Matrix: Water**  
**Analysis Batch: 450294**

**Client Sample ID: BAW-4**  
**Prep Type: Total/NA**

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Chloride | 7.60          |                  | 50.0        | 59.72      |               | mg/L |   | 104  | 80 - 120    | 1   | 15        |
| Fluoride | 0.0393        | J                | 2.50        | 2.829      |               | mg/L |   | 112  | 80 - 120    | 2   | 15        |
| Sulfate  | 12.5          |                  | 50.0        | 65.68      |               | mg/L |   | 106  | 80 - 120    | 1   | 15        |

## Method: 6020B - Metals (ICP/MS)

**Lab Sample ID: MB 680-805272/1-A**  
**Matrix: Water**  
**Analysis Batch: 805687**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 805272**

| Analyte    | MB Result  | MB Qualifier | RL       | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|------------|--------------|----------|-----------|------|---|----------------|----------------|---------|
| Antimony   | <0.000340  |              | 0.00200  | 0.000340  | mg/L |   | 10/30/23 06:55 | 10/31/23 13:06 | 1       |
| Arsenic    | <0.000860  |              | 0.00100  | 0.000860  | mg/L |   | 10/30/23 06:55 | 10/31/23 13:06 | 1       |
| Barium     | <0.000890  |              | 0.0100   | 0.000890  | mg/L |   | 10/30/23 06:55 | 10/31/23 13:06 | 1       |
| Beryllium  | <0.000200  |              | 0.00100  | 0.000200  | mg/L |   | 10/30/23 06:55 | 10/31/23 13:06 | 1       |
| Boron      | <0.0220    |              | 0.0800   | 0.0220    | mg/L |   | 10/30/23 06:55 | 10/31/23 13:06 | 1       |
| Cadmium    | <0.0000780 |              | 0.00100  | 0.0000780 | mg/L |   | 10/30/23 06:55 | 10/31/23 13:06 | 1       |
| Calcium    | <0.140     |              | 0.500    | 0.140     | mg/L |   | 10/30/23 06:55 | 10/31/23 13:06 | 1       |
| Chromium   | <0.00120   |              | 0.00200  | 0.00120   | mg/L |   | 10/30/23 06:55 | 10/31/23 13:06 | 1       |
| Cobalt     | <0.000220  |              | 0.000500 | 0.000220  | mg/L |   | 10/30/23 06:55 | 10/31/23 13:06 | 1       |
| Lead       | <0.000210  |              | 0.00100  | 0.000210  | mg/L |   | 10/30/23 06:55 | 10/31/23 13:06 | 1       |
| Lithium    | <0.00200   |              | 0.00500  | 0.00200   | mg/L |   | 10/30/23 06:55 | 10/31/23 13:06 | 1       |
| Molybdenum | <0.000860  |              | 0.00500  | 0.000860  | mg/L |   | 10/30/23 06:55 | 10/31/23 13:06 | 1       |
| Selenium   | <0.000990  |              | 0.00500  | 0.000990  | mg/L |   | 10/30/23 06:55 | 10/31/23 13:06 | 1       |
| Thallium   | <0.000260  |              | 0.00100  | 0.000260  | mg/L |   | 10/30/23 06:55 | 10/31/23 13:06 | 1       |

**Lab Sample ID: LCS 680-805272/2-A**  
**Matrix: Water**  
**Analysis Batch: 805687**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 805272**

| Analyte   | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------|-------------|------------|---------------|------|---|------|-------------|
| Antimony  | 0.0500      | 0.05373    |               | mg/L |   | 107  | 80 - 120    |
| Arsenic   | 0.100       | 0.1039     |               | mg/L |   | 104  | 80 - 120    |
| Barium    | 0.100       | 0.1018     |               | mg/L |   | 102  | 80 - 120    |
| Beryllium | 0.0500      | 0.05256    |               | mg/L |   | 105  | 80 - 120    |
| Boron     | 0.400       | 0.3971     |               | mg/L |   | 99   | 80 - 120    |
| Cadmium   | 0.0500      | 0.05191    |               | mg/L |   | 104  | 80 - 120    |
| Calcium   | 5.00        | 5.069      |               | mg/L |   | 101  | 80 - 120    |
| Chromium  | 0.100       | 0.1026     |               | mg/L |   | 102  | 80 - 120    |
| Cobalt    | 0.0500      | 0.05125    |               | mg/L |   | 103  | 80 - 120    |

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# QC Sample Results

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-1

## Method: 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: LCS 680-805272/2-A**  
**Matrix: Water**  
**Analysis Batch: 805687**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 805272**

| Analyte    | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------|-------------|------------|---------------|------|---|------|-------------|
| Lead       | 0.500       | 0.5213     |               | mg/L |   | 104  | 80 - 120    |
| Lithium    | 0.500       | 0.4980     |               | mg/L |   | 100  | 80 - 120    |
| Molybdenum | 0.100       | 0.1058     |               | mg/L |   | 106  | 80 - 120    |
| Selenium   | 0.100       | 0.1031     |               | mg/L |   | 103  | 80 - 120    |
| Thallium   | 0.0500      | 0.05028    |               | mg/L |   | 101  | 80 - 120    |

**Lab Sample ID: MB 680-805280/1-A**  
**Matrix: Water**  
**Analysis Batch: 805687**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 805280**

| Analyte    | MB Result  | MB Qualifier | RL       | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|------------|--------------|----------|-----------|------|---|----------------|----------------|---------|
| Antimony   | <0.000340  |              | 0.00200  | 0.000340  | mg/L |   | 10/30/23 07:59 | 10/31/23 14:35 | 1       |
| Arsenic    | <0.000860  |              | 0.00100  | 0.000860  | mg/L |   | 10/30/23 07:59 | 10/31/23 14:35 | 1       |
| Barium     | <0.000890  |              | 0.0100   | 0.000890  | mg/L |   | 10/30/23 07:59 | 10/31/23 14:35 | 1       |
| Beryllium  | <0.000200  |              | 0.00100  | 0.000200  | mg/L |   | 10/30/23 07:59 | 10/31/23 14:35 | 1       |
| Boron      | <0.0220    |              | 0.0800   | 0.0220    | mg/L |   | 10/30/23 07:59 | 10/31/23 14:35 | 1       |
| Cadmium    | <0.0000780 |              | 0.00100  | 0.0000780 | mg/L |   | 10/30/23 07:59 | 10/31/23 14:35 | 1       |
| Calcium    | <0.140     |              | 0.500    | 0.140     | mg/L |   | 10/30/23 07:59 | 10/31/23 14:35 | 1       |
| Chromium   | <0.00120   |              | 0.00200  | 0.00120   | mg/L |   | 10/30/23 07:59 | 10/31/23 14:35 | 1       |
| Cobalt     | <0.000220  |              | 0.000500 | 0.000220  | mg/L |   | 10/30/23 07:59 | 10/31/23 14:35 | 1       |
| Lead       | <0.000210  |              | 0.00100  | 0.000210  | mg/L |   | 10/30/23 07:59 | 10/31/23 14:35 | 1       |
| Lithium    | <0.00200   |              | 0.00500  | 0.00200   | mg/L |   | 10/30/23 07:59 | 10/31/23 14:35 | 1       |
| Molybdenum | <0.000860  |              | 0.00500  | 0.000860  | mg/L |   | 10/30/23 07:59 | 10/31/23 14:35 | 1       |
| Selenium   | <0.000990  |              | 0.00500  | 0.000990  | mg/L |   | 10/30/23 07:59 | 10/31/23 14:35 | 1       |
| Thallium   | <0.000260  |              | 0.00100  | 0.000260  | mg/L |   | 10/30/23 07:59 | 10/31/23 14:35 | 1       |

**Lab Sample ID: LCS 680-805280/2-A**  
**Matrix: Water**  
**Analysis Batch: 805687**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 805280**

| Analyte    | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------|-------------|------------|---------------|------|---|------|-------------|
| Antimony   | 0.0500      | 0.05407    |               | mg/L |   | 108  | 80 - 120    |
| Arsenic    | 0.100       | 0.1017     |               | mg/L |   | 102  | 80 - 120    |
| Barium     | 0.100       | 0.1008     |               | mg/L |   | 101  | 80 - 120    |
| Beryllium  | 0.0500      | 0.05036    |               | mg/L |   | 101  | 80 - 120    |
| Boron      | 0.400       | 0.3739     |               | mg/L |   | 93   | 80 - 120    |
| Cadmium    | 0.0500      | 0.05222    |               | mg/L |   | 104  | 80 - 120    |
| Calcium    | 5.00        | 5.026      |               | mg/L |   | 101  | 80 - 120    |
| Chromium   | 0.100       | 0.1036     |               | mg/L |   | 103  | 80 - 120    |
| Cobalt     | 0.0500      | 0.05203    |               | mg/L |   | 104  | 80 - 120    |
| Lead       | 0.500       | 0.5231     |               | mg/L |   | 105  | 80 - 120    |
| Lithium    | 0.500       | 0.4890     |               | mg/L |   | 98   | 80 - 120    |
| Molybdenum | 0.100       | 0.1043     |               | mg/L |   | 104  | 80 - 120    |
| Selenium   | 0.100       | 0.1037     |               | mg/L |   | 104  | 80 - 120    |
| Thallium   | 0.0500      | 0.04959    |               | mg/L |   | 99   | 80 - 120    |

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# QC Sample Results

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-1

## Method: 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: MB 680-805283/1-A**  
**Matrix: Water**  
**Analysis Batch: 805687**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 805283**

| Analyte    | MB         | MB        | RL       | MDL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
|            | Result     | Qualifier |          |           |      |   |                |                |         |
| Antimony   | <0.000340  |           | 0.00200  | 0.000340  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:04 | 1       |
| Arsenic    | <0.000860  |           | 0.00100  | 0.000860  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:04 | 1       |
| Barium     | <0.000890  |           | 0.0100   | 0.000890  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:04 | 1       |
| Beryllium  | <0.000200  |           | 0.00100  | 0.000200  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:04 | 1       |
| Boron      | <0.0220    |           | 0.0800   | 0.0220    | mg/L |   | 10/30/23 08:06 | 10/31/23 12:04 | 1       |
| Cadmium    | <0.0000780 |           | 0.00100  | 0.0000780 | mg/L |   | 10/30/23 08:06 | 10/31/23 12:04 | 1       |
| Calcium    | <0.140     |           | 0.500    | 0.140     | mg/L |   | 10/30/23 08:06 | 10/31/23 12:04 | 1       |
| Chromium   | 0.001225   | J         | 0.00200  | 0.00120   | mg/L |   | 10/30/23 08:06 | 10/31/23 12:04 | 1       |
| Cobalt     | <0.000220  |           | 0.000500 | 0.000220  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:04 | 1       |
| Lead       | <0.000210  |           | 0.00100  | 0.000210  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:04 | 1       |
| Lithium    | <0.00200   |           | 0.00500  | 0.00200   | mg/L |   | 10/30/23 08:06 | 10/31/23 12:04 | 1       |
| Molybdenum | <0.000860  |           | 0.00500  | 0.000860  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:04 | 1       |
| Selenium   | <0.000990  |           | 0.00500  | 0.000990  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:04 | 1       |
| Thallium   | <0.000260  |           | 0.00100  | 0.000260  | mg/L |   | 10/30/23 08:06 | 10/31/23 12:04 | 1       |

**Lab Sample ID: LCS 680-805283/2-A**  
**Matrix: Water**  
**Analysis Batch: 805687**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 805283**

| Analyte    | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------|-------------|------------|---------------|------|---|------|-------------|
|            |             |            |               |      |   |      |             |
| Arsenic    | 0.100       | 0.09913    |               | mg/L |   | 99   | 80 - 120    |
| Barium     | 0.100       | 0.09787    |               | mg/L |   | 98   | 80 - 120    |
| Beryllium  | 0.0500      | 0.05135    |               | mg/L |   | 103  | 80 - 120    |
| Boron      | 0.400       | 0.3790     |               | mg/L |   | 95   | 80 - 120    |
| Cadmium    | 0.0500      | 0.05002    |               | mg/L |   | 100  | 80 - 120    |
| Calcium    | 5.00        | 4.811      |               | mg/L |   | 96   | 80 - 120    |
| Chromium   | 0.100       | 0.09775    |               | mg/L |   | 97   | 80 - 120    |
| Cobalt     | 0.0500      | 0.04965    |               | mg/L |   | 99   | 80 - 120    |
| Lead       | 0.500       | 0.4937     |               | mg/L |   | 99   | 80 - 120    |
| Lithium    | 0.500       | 0.4767     |               | mg/L |   | 95   | 80 - 120    |
| Molybdenum | 0.100       | 0.09911    |               | mg/L |   | 99   | 80 - 120    |
| Selenium   | 0.100       | 0.09820    |               | mg/L |   | 98   | 80 - 120    |
| Thallium   | 0.0500      | 0.04726    |               | mg/L |   | 95   | 80 - 120    |

**Lab Sample ID: 180-164433-4 MS**  
**Matrix: Water**  
**Analysis Batch: 805687**

**Client Sample ID: BAW-8**  
**Prep Type: Total Recoverable**  
**Prep Batch: 805283**

| Analyte   | Sample    | Sample    | Spike Added | MS      | MS        | Unit | D | %Rec | %Rec Limits |
|-----------|-----------|-----------|-------------|---------|-----------|------|---|------|-------------|
|           | Result    | Qualifier |             | Result  | Qualifier |      |   |      |             |
| Antimony  | <0.000340 |           | 0.0500      | 0.05280 |           | mg/L |   | 106  | 75 - 125    |
| Arsenic   | 0.00426   |           | 0.100       | 0.1045  |           | mg/L |   | 100  | 75 - 125    |
| Barium    | 0.0842    |           | 0.100       | 0.1835  |           | mg/L |   | 99   | 75 - 125    |
| Beryllium | <0.000200 |           | 0.0500      | 0.05155 |           | mg/L |   | 103  | 75 - 125    |
| Boron     | 0.808     |           | 0.400       | 1.180   |           | mg/L |   | 93   | 75 - 125    |
| Cadmium   | 0.000120  | J         | 0.0500      | 0.05073 |           | mg/L |   | 101  | 75 - 125    |
| Calcium   | 24.2      |           | 5.00        | 29.58   | 4         | mg/L |   | 108  | 75 - 125    |
| Chromium  | <0.00120  |           | 0.100       | 0.09888 |           | mg/L |   | 98   | 75 - 125    |
| Cobalt    | 0.00772   |           | 0.0500      | 0.05686 |           | mg/L |   | 98   | 75 - 125    |

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# QC Sample Results

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-1

## Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 180-164433-4 MS  
Matrix: Water  
Analysis Batch: 805687

Client Sample ID: BAW-8  
Prep Type: Total Recoverable  
Prep Batch: 805283

| Analyte    | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Lead       | <0.000210     |                  | 0.500       | 0.5055    |              | mg/L |   | 101  | 75 - 125    |
| Lithium    | 0.0582        |                  | 0.500       | 0.5344    |              | mg/L |   | 95   | 75 - 125    |
| Molybdenum | 0.00300       | J                | 0.100       | 0.1050    |              | mg/L |   | 102  | 75 - 125    |
| Selenium   | <0.000990     |                  | 0.100       | 0.1005    |              | mg/L |   | 100  | 75 - 125    |
| Thallium   | <0.000260     |                  | 0.0500      | 0.04806   |              | mg/L |   | 96   | 75 - 125    |

Lab Sample ID: 180-164433-4 MSD  
Matrix: Water  
Analysis Batch: 805687

Client Sample ID: BAW-8  
Prep Type: Total Recoverable  
Prep Batch: 805283

| Analyte    | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Antimony   | <0.000340     |                  | 0.0500      | 0.05316    |               | mg/L |   | 106  | 75 - 125    | 1   | 20        |
| Arsenic    | 0.00426       |                  | 0.100       | 0.1048     |               | mg/L |   | 101  | 75 - 125    | 0   | 20        |
| Barium     | 0.0842        |                  | 0.100       | 0.1810     |               | mg/L |   | 97   | 75 - 125    | 1   | 20        |
| Beryllium  | <0.000200     |                  | 0.0500      | 0.05171    |               | mg/L |   | 103  | 75 - 125    | 0   | 20        |
| Boron      | 0.808         |                  | 0.400       | 1.186      |               | mg/L |   | 94   | 75 - 125    | 1   | 20        |
| Cadmium    | 0.000120      | J                | 0.0500      | 0.05114    |               | mg/L |   | 102  | 75 - 125    | 1   | 20        |
| Calcium    | 24.2          |                  | 5.00        | 28.42      | 4             | mg/L |   | 85   | 75 - 125    | 4   | 20        |
| Chromium   | <0.00120      |                  | 0.100       | 0.09957    |               | mg/L |   | 99   | 75 - 125    | 1   | 20        |
| Cobalt     | 0.00772       |                  | 0.0500      | 0.05753    |               | mg/L |   | 100  | 75 - 125    | 1   | 20        |
| Lead       | <0.000210     |                  | 0.500       | 0.5024     |               | mg/L |   | 100  | 75 - 125    | 1   | 20        |
| Lithium    | 0.0582        |                  | 0.500       | 0.5384     |               | mg/L |   | 96   | 75 - 125    | 1   | 20        |
| Molybdenum | 0.00300       | J                | 0.100       | 0.1055     |               | mg/L |   | 103  | 75 - 125    | 0   | 20        |
| Selenium   | <0.000990     |                  | 0.100       | 0.09927    |               | mg/L |   | 99   | 75 - 125    | 1   | 20        |
| Thallium   | <0.000260     |                  | 0.0500      | 0.04881    |               | mg/L |   | 98   | 75 - 125    | 2   | 20        |

## Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-450385/1-A  
Matrix: Water  
Analysis Batch: 450425

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 450385

| Analyte | MB Result | MB Qualifier | RL       | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|--------------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000130 |              | 0.000200 | 0.000130 | mg/L |   | 10/27/23 10:00 | 10/27/23 13:29 | 1       |

Lab Sample ID: LCS 180-450385/2-A  
Matrix: Water  
Analysis Batch: 450425

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 450385

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Mercury | 0.00250     | 0.002446   |               | mg/L |   | 98   | 80 - 120    |

## Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-450440/1  
Matrix: Water  
Analysis Batch: 450440

Client Sample ID: Method Blank  
Prep Type: Total/NA

| Analyte                | MB Result | MB Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|-----------|--------------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10.0     |              | 10.0 | 10.0 | mg/L |   |          | 10/27/23 19:36 | 1       |

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# QC Sample Results

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-1

## Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

**Lab Sample ID: LCS 180-450440/2**  
**Matrix: Water**  
**Analysis Batch: 450440**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

| Analyte                | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------|-------------|------------|---------------|------|---|------|-------------|
| Total Dissolved Solids | 336         | 328.0      |               | mg/L |   | 98   | 85 - 115    |

**Lab Sample ID: MB 180-450441/1**  
**Matrix: Water**  
**Analysis Batch: 450441**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

| Analyte                | MB Result | MB Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|-----------|--------------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10.0     |              | 10.0 | 10.0 | mg/L |   |          | 10/27/23 19:55 | 1       |

**Lab Sample ID: LCS 180-450441/2**  
**Matrix: Water**  
**Analysis Batch: 450441**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

| Analyte                | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------|-------------|------------|---------------|------|---|------|-------------|
| Total Dissolved Solids | 336         | 318.0      |               | mg/L |   | 95   | 85 - 115    |

**Lab Sample ID: 180-164433-5 DU**  
**Matrix: Water**  
**Analysis Batch: 450441**

**Client Sample ID: BAW-9**  
**Prep Type: Total/NA**

| Analyte                | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Dissolved Solids | 138           |                  | 142.0     |              | mg/L |   | 3   | 10        |

# QC Association Summary

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-1

## HPLC/IC

### Analysis Batch: 450294

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method    | Prep Batch |
|-------------------|--------------------|-----------|--------|-----------|------------|
| 180-164433-1      | BAW-7              | Total/NA  | Water  | EPA 9056A |            |
| 180-164433-2      | BAW-1              | Total/NA  | Water  | EPA 9056A |            |
| 180-164433-3      | BAW-2A             | Total/NA  | Water  | EPA 9056A |            |
| 180-164433-4      | BAW-8              | Total/NA  | Water  | EPA 9056A |            |
| 180-164433-5      | BAW-9              | Total/NA  | Water  | EPA 9056A |            |
| 180-164433-6      | EB-01              | Total/NA  | Water  | EPA 9056A |            |
| 180-164433-7      | FB-01              | Total/NA  | Water  | EPA 9056A |            |
| 180-164433-8      | DUP-01             | Total/NA  | Water  | EPA 9056A |            |
| 180-164433-9      | BAW-3              | Total/NA  | Water  | EPA 9056A |            |
| 180-164433-10     | BAW-4              | Total/NA  | Water  | EPA 9056A |            |
| 180-164433-11     | BAW-5              | Total/NA  | Water  | EPA 9056A |            |
| 180-164433-12     | DUP-02             | Total/NA  | Water  | EPA 9056A |            |
| MB 180-450294/37  | Method Blank       | Total/NA  | Water  | EPA 9056A |            |
| MB 180-450294/69  | Method Blank       | Total/NA  | Water  | EPA 9056A |            |
| LCS 180-450294/38 | Lab Control Sample | Total/NA  | Water  | EPA 9056A |            |
| LCS 180-450294/70 | Lab Control Sample | Total/NA  | Water  | EPA 9056A |            |
| 180-164433-1 MS   | BAW-7              | Total/NA  | Water  | EPA 9056A |            |
| 180-164433-1 MSD  | BAW-7              | Total/NA  | Water  | EPA 9056A |            |
| 180-164433-10 MS  | BAW-4              | Total/NA  | Water  | EPA 9056A |            |
| 180-164433-10 MSD | BAW-4              | Total/NA  | Water  | EPA 9056A |            |

## Metals

### Prep Batch: 450385

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 180-164433-1       | BAW-7              | Total/NA  | Water  | 7470A  |            |
| 180-164433-2       | BAW-1              | Total/NA  | Water  | 7470A  |            |
| 180-164433-3       | BAW-2A             | Total/NA  | Water  | 7470A  |            |
| 180-164433-4       | BAW-8              | Total/NA  | Water  | 7470A  |            |
| 180-164433-5       | BAW-9              | Total/NA  | Water  | 7470A  |            |
| 180-164433-6       | EB-01              | Total/NA  | Water  | 7470A  |            |
| 180-164433-7       | FB-01              | Total/NA  | Water  | 7470A  |            |
| 180-164433-8       | DUP-01             | Total/NA  | Water  | 7470A  |            |
| 180-164433-9       | BAW-3              | Total/NA  | Water  | 7470A  |            |
| 180-164433-10      | BAW-4              | Total/NA  | Water  | 7470A  |            |
| 180-164433-11      | BAW-5              | Total/NA  | Water  | 7470A  |            |
| 180-164433-12      | DUP-02             | Total/NA  | Water  | 7470A  |            |
| MB 180-450385/1-A  | Method Blank       | Total/NA  | Water  | 7470A  |            |
| LCS 180-450385/2-A | Lab Control Sample | Total/NA  | Water  | 7470A  |            |

### Analysis Batch: 450425

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method    | Prep Batch |
|---------------|------------------|-----------|--------|-----------|------------|
| 180-164433-1  | BAW-7            | Total/NA  | Water  | EPA 7470A | 450385     |
| 180-164433-2  | BAW-1            | Total/NA  | Water  | EPA 7470A | 450385     |
| 180-164433-3  | BAW-2A           | Total/NA  | Water  | EPA 7470A | 450385     |
| 180-164433-4  | BAW-8            | Total/NA  | Water  | EPA 7470A | 450385     |
| 180-164433-5  | BAW-9            | Total/NA  | Water  | EPA 7470A | 450385     |
| 180-164433-6  | EB-01            | Total/NA  | Water  | EPA 7470A | 450385     |
| 180-164433-7  | FB-01            | Total/NA  | Water  | EPA 7470A | 450385     |
| 180-164433-8  | DUP-01           | Total/NA  | Water  | EPA 7470A | 450385     |
| 180-164433-9  | BAW-3            | Total/NA  | Water  | EPA 7470A | 450385     |

Eurofins Pittsburgh

# QC Association Summary

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-1

## Metals (Continued)

### Analysis Batch: 450425 (Continued)

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method    | Prep Batch |
|--------------------|--------------------|-----------|--------|-----------|------------|
| 180-164433-10      | BAW-4              | Total/NA  | Water  | EPA 7470A | 450385     |
| 180-164433-11      | BAW-5              | Total/NA  | Water  | EPA 7470A | 450385     |
| 180-164433-12      | DUP-02             | Total/NA  | Water  | EPA 7470A | 450385     |
| MB 180-450385/1-A  | Method Blank       | Total/NA  | Water  | EPA 7470A | 450385     |
| LCS 180-450385/2-A | Lab Control Sample | Total/NA  | Water  | EPA 7470A | 450385     |

### Prep Batch: 805272

| Lab Sample ID      | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 180-164433-8       | DUP-01             | Total Recoverable | Water  | 3005A  |            |
| MB 680-805272/1-A  | Method Blank       | Total Recoverable | Water  | 3005A  |            |
| LCS 680-805272/2-A | Lab Control Sample | Total Recoverable | Water  | 3005A  |            |

### Prep Batch: 805280

| Lab Sample ID      | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 180-164433-1       | BAW-7              | Total Recoverable | Water  | 3005A  |            |
| 180-164433-2       | BAW-1              | Total Recoverable | Water  | 3005A  |            |
| 180-164433-3       | BAW-2A             | Total Recoverable | Water  | 3005A  |            |
| 180-164433-6       | EB-01              | Total Recoverable | Water  | 3005A  |            |
| 180-164433-7       | FB-01              | Total Recoverable | Water  | 3005A  |            |
| 180-164433-9       | BAW-3              | Total Recoverable | Water  | 3005A  |            |
| 180-164433-12      | DUP-02             | Total Recoverable | Water  | 3005A  |            |
| MB 680-805280/1-A  | Method Blank       | Total Recoverable | Water  | 3005A  |            |
| LCS 680-805280/2-A | Lab Control Sample | Total Recoverable | Water  | 3005A  |            |

### Prep Batch: 805283

| Lab Sample ID      | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 180-164433-4       | BAW-8              | Total Recoverable | Water  | 3005A  |            |
| 180-164433-5       | BAW-9              | Total Recoverable | Water  | 3005A  |            |
| 180-164433-10      | BAW-4              | Total Recoverable | Water  | 3005A  |            |
| 180-164433-11      | BAW-5              | Total Recoverable | Water  | 3005A  |            |
| MB 680-805283/1-A  | Method Blank       | Total Recoverable | Water  | 3005A  |            |
| LCS 680-805283/2-A | Lab Control Sample | Total Recoverable | Water  | 3005A  |            |
| 180-164433-4 MS    | BAW-8              | Total Recoverable | Water  | 3005A  |            |
| 180-164433-4 MSD   | BAW-8              | Total Recoverable | Water  | 3005A  |            |

### Analysis Batch: 805687

| Lab Sample ID     | Client Sample ID | Prep Type         | Matrix | Method | Prep Batch |
|-------------------|------------------|-------------------|--------|--------|------------|
| 180-164433-1      | BAW-7            | Total Recoverable | Water  | 6020B  | 805280     |
| 180-164433-2      | BAW-1            | Total Recoverable | Water  | 6020B  | 805280     |
| 180-164433-3      | BAW-2A           | Total Recoverable | Water  | 6020B  | 805280     |
| 180-164433-4      | BAW-8            | Total Recoverable | Water  | 6020B  | 805283     |
| 180-164433-5      | BAW-9            | Total Recoverable | Water  | 6020B  | 805283     |
| 180-164433-6      | EB-01            | Total Recoverable | Water  | 6020B  | 805280     |
| 180-164433-7      | FB-01            | Total Recoverable | Water  | 6020B  | 805280     |
| 180-164433-8      | DUP-01           | Total Recoverable | Water  | 6020B  | 805272     |
| 180-164433-9      | BAW-3            | Total Recoverable | Water  | 6020B  | 805280     |
| 180-164433-10     | BAW-4            | Total Recoverable | Water  | 6020B  | 805283     |
| 180-164433-11     | BAW-5            | Total Recoverable | Water  | 6020B  | 805283     |
| 180-164433-12     | DUP-02           | Total Recoverable | Water  | 6020B  | 805280     |
| MB 680-805272/1-A | Method Blank     | Total Recoverable | Water  | 6020B  | 805272     |
| MB 680-805280/1-A | Method Blank     | Total Recoverable | Water  | 6020B  | 805280     |

Eurofins Pittsburgh

# QC Association Summary

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-1

## Metals (Continued)

### Analysis Batch: 805687 (Continued)

| Lab Sample ID      | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| MB 680-805283/1-A  | Method Blank       | Total Recoverable | Water  | 6020B  | 805283     |
| LCS 680-805272/2-A | Lab Control Sample | Total Recoverable | Water  | 6020B  | 805272     |
| LCS 680-805280/2-A | Lab Control Sample | Total Recoverable | Water  | 6020B  | 805280     |
| LCS 680-805283/2-A | Lab Control Sample | Total Recoverable | Water  | 6020B  | 805283     |
| 180-164433-4 MS    | BAW-8              | Total Recoverable | Water  | 6020B  | 805283     |
| 180-164433-4 MSD   | BAW-8              | Total Recoverable | Water  | 6020B  | 805283     |

## General Chemistry

### Analysis Batch: 450440

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method   | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 180-164433-1     | BAW-7              | Total/NA  | Water  | SM 2540C |            |
| 180-164433-2     | BAW-1              | Total/NA  | Water  | SM 2540C |            |
| 180-164433-3     | BAW-2A             | Total/NA  | Water  | SM 2540C |            |
| 180-164433-4     | BAW-8              | Total/NA  | Water  | SM 2540C |            |
| MB 180-450440/1  | Method Blank       | Total/NA  | Water  | SM 2540C |            |
| LCS 180-450440/2 | Lab Control Sample | Total/NA  | Water  | SM 2540C |            |

### Analysis Batch: 450441

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method   | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 180-164433-5     | BAW-9              | Total/NA  | Water  | SM 2540C |            |
| 180-164433-6     | EB-01              | Total/NA  | Water  | SM 2540C |            |
| 180-164433-7     | FB-01              | Total/NA  | Water  | SM 2540C |            |
| 180-164433-8     | DUP-01             | Total/NA  | Water  | SM 2540C |            |
| 180-164433-9     | BAW-3              | Total/NA  | Water  | SM 2540C |            |
| 180-164433-10    | BAW-4              | Total/NA  | Water  | SM 2540C |            |
| 180-164433-11    | BAW-5              | Total/NA  | Water  | SM 2540C |            |
| 180-164433-12    | DUP-02             | Total/NA  | Water  | SM 2540C |            |
| MB 180-450441/1  | Method Blank       | Total/NA  | Water  | SM 2540C |            |
| LCS 180-450441/2 | Lab Control Sample | Total/NA  | Water  | SM 2540C |            |
| 180-164433-5 DU  | BAW-9              | Total/NA  | Water  | SM 2540C |            |

## Field Service / Mobile Lab

### Analysis Batch: 451747

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method         | Prep Batch |
|---------------|------------------|-----------|--------|----------------|------------|
| 180-164433-1  | BAW-7            | Total/NA  | Water  | Field Sampling |            |
| 180-164433-2  | BAW-1            | Total/NA  | Water  | Field Sampling |            |
| 180-164433-3  | BAW-2A           | Total/NA  | Water  | Field Sampling |            |
| 180-164433-4  | BAW-8            | Total/NA  | Water  | Field Sampling |            |
| 180-164433-5  | BAW-9            | Total/NA  | Water  | Field Sampling |            |
| 180-164433-9  | BAW-3            | Total/NA  | Water  | Field Sampling |            |
| 180-164433-10 | BAW-4            | Total/NA  | Water  | Field Sampling |            |
| 180-164433-11 | BAW-5            | Total/NA  | Water  | Field Sampling |            |

**Chain of Custody Record**

| Client Information                    |             | Sampler Info                                 |             | Lab PM   |                                   | Carrier Tracking No(s)          |                               | COC No   |                                 |                        |                            |                            |       |
|---------------------------------------|-------------|--|-------------|--|-----------------------------------|---------------------------------|-------------------------------|--|---------------------------------|------------------------|----------------------------|----------------------------|-------|
| Client Contact:<br>SCS Contacts       |             | Phone: <u>850-336-4942</u>                   |             | Brown, Shall<br>E-Mail: shall.brown@eurofinset.com |                                   |                                 |                               | Page: <u>1 of 2</u>  |                                 |                        |                            |                            |       |
| Company:<br>SCS                       |             | Address:<br>3535 Colonnade Pkwy Bin S 530 EC |             | City:<br>Birmingham                                |                                   | State, Zip:<br>Alabama          |                               | Job #:   |                                 |                        |                            |                            |       |
| Phone:<br>205 992 6283                |             | PO #:  |             | VO #:  |                                   | Project #:<br>18020047          |                               | Preservation Codes:  |                                 |                        |                            |                            |       |
| Email:                                |             | Due Date Requested:                          |             | TAT Requested (days):                              |                                   | Matrix                          |                               | M - Hexane<br>N - None<br>O - Ash/NaOH<br>P - Na2CO4S<br>Q - Nitric Acid<br>R - NaHSO4<br>S - H2SO4<br>T - TSP Dodecahydrate<br>U - Acetone<br>V - MCAA<br>W - pH 4-5<br>Z - other (specify) |                                 |                        |                            |                            |       |
| SCS Contacts                          |             | Project #:                                   |             | SSOW#:   |                                   | Sample Type<br>(C=Comp, G=grab) |                               | Other:   |                                 |                        |                            |                            |       |
| Project Name<br>Daniel Ash Pond B CCR |             | Sample Date                                  |             | Sample Time  |                                   | Sample Time                     |                               | Other:   |                                 |                        |                            |                            |       |
| Site                                  |             | Sample Date                                  |             | Sample Time  |                                   | Sample Time                     |                               | Other:   |                                 |                        |                            |                            |       |
| Sample Identification                 | Sample Date | Sample Time                                  | Sample Type | Matrix   | Field Filtered Sample (Yes or No) | Form MS/MSD (Yes or No)         | 6020B Custom (App III and IV) | 7470 Mercury   | 90656 Chloride Fluoride Sulfate | Total Dissolved Solids | Ra 226 Ra 228 and Combined | Total Number of Containers | Speci |
| BAW-7                                 | 10-24-23    | 1120   | G           | Water  | ND                                | X                               | X                             | X  | X                               | X                      | X                          | 5                          |       |
| BAW-1                                 | 10-24-23    | 1725   | G           | Water  | ND                                | X                               | X                             | X  | X                               | X                      | X                          | 5                          |       |
| BAW-2A                                | 10-24-23    | 1401   | G           | Water  | ND                                | X                               | X                             | X  | X                               | X                      | X                          | 5                          |       |
| BAW-8                                 | 10-24-23    | 1635   | G           | Water  | ND                                | X                               | X                             | X  | X                               | X                      | X                          | 5                          |       |
| BAW-9                                 | 10-24-23    | 1830   | G           | Water  | ND                                | X                               | X                             | X  | X                               | X                      | X                          | 5                          |       |
| EB-01                                 | 10-24-23    | 1507   | G           | Water  | ND                                | X                               | X                             | X  | X                               | X                      | X                          | 5                          |       |
| EB-01                                 | 10-24-23    | 1525   | G           | Water  | ND                                | X                               | X                             | X  | X                               | X                      | X                          | 5                          |       |
| DUP-01                                | 10-24-23    | 1301   | G           | Water  | ND                                | X                               | X                             | X  | X                               | X                      | X                          | 5                          |       |
| BAW-3                                 | 10-25-23    | 0949   | G           | Water  | ND                                | X                               | X                             | X  | X                               | X                      | X                          | 5                          |       |
| BAW-4                                 | 10-25-23    | 1235   | G           | Water  | ND                                | X                               | X                             | X  | X                               | X                      | X                          | 5                          |       |
| BAW-5                                 | 10-25-23    | 1405   | G           | Water  | ND                                | X                               | X                             | X  | X                               | X                      | X                          | 5                          |       |

180-164433 Chain of Custody

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client     Disposal By Lab     Archive For \_\_\_\_\_ Months

Special Instructions/QC Requirements

| Empty Kit Relinquished by           | Date                             | Time                    | Method of Shipment:             |
|-------------------------------------|----------------------------------|-------------------------|---------------------------------|
| Relinquished by: <u>Todd Vereis</u> | Date/Time: <u>25 Oct 23 1547</u> | Company: <u>RTH EMU</u> | Received by: <u>[Signature]</u> |
| Relinquished by:                    | Date/Time:                       | Company:                | Received by:                    |
| Relinquished by:                    | Date/Time:                       | Company:                | Received by:                    |

Custody Seal No.: Δ Yes Δ No    Cooler Temperature(s) °C and Other Remarks:

**Chain of Custody Record**

|   |  |  |  |
|---|--|--|--|
| <b>Client Information</b><br>Client Contact: SCS Contacts<br>Company: SCS<br>Address: 3535 Colonnade Pkwy Bin S 530 EC<br>City: Birmingham<br>State, Zip: Alabama<br>Phone: 205 992 6283<br>Email: SCS Contacts<br>Project Name: Daniel Ash Pond B CCR<br>Site:   |  | Lab PM: Brown, Shall<br>E-Mail: shall.brown@eurofinset.com<br>Carrier Tracking No(s):<br>Job #: 2023   |  |
| Due Date Requested:<br>TAT Requested (days):<br>PO #:<br>WO #:<br>Project #: 18020047<br>SOW#:  |  | <b>Analysis Requested</b><br>Ra 226 Ra 228 and Combined<br>Total Dissolved Solids<br>9656 Chloride Fluoride Sulfate<br>7470 Mercury<br>6020B Custom 14 (App III and IV)<br>Perform MS/MSD (Yes or No)<br>Field Filtered Sample (Yes or No) |  |
| Preservation Codes:<br>A - HCL<br>B - NaOH<br>C - Zn Acetate<br>D - Nitric Acid<br>E - NaHSO4<br>F - MeOH<br>G - Amchlor<br>H - Ascorbic Acid<br>I - Ice<br>J - DI Water<br>K - EDTA<br>L - EDA<br>Other:   |  | Special Instructions/Note:<br>Total Number of Containers: 3  |  |
| Sample Identification<br>DUP-02<br>Sample Date: 10-23-23<br>Sample Time: 0849<br>Sample Type (C=comp, G=grab): G<br>Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air): water  |  | Preservation Code:   |  |
| Possible Hazard Identification<br><input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological<br>Deliverable Requested 1, II, III, IV, Other (specify) |  |  |  |
| Empty Kit Relinquished by<br>Relinquished by: Todd Voreis<br>Relinquished by: [Signature]<br>Relinquished by:   |  |  |  |
| Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)<br><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months<br>Special Instructions/QC Requirements   |  |  |  |
| Date/Time: 25 OCT 23 / 1547<br>Date/Time:   |  | Date/Time: 10-26-23 1030<br>Date/Time:   |  |
| Date/Time:  |  | Date/Time:   |  |
| Date/Time:  |  | Date/Time:   |  |
| Custody Seals Intact:<br>Δ Yes Δ No   |  | Cooler Temperature(s) °C and Other Remarks:  |  |





Do not lift using this tag.

ORIGIN ID: BIXA (402) 517-0342  
TODD VOREIS  
TESTAMERICA PITTSBURGH LAB  
SEE CHEERS 5 BEFORE BILL  
301 ALPHA DR  
PITTSBURGH, PA 15238  
UNITED STATES US

SHIP DATE: 25OCT23  
ACTWGT: 66.25 LB  
CAD: 6993600/SSFE2441  
DIMS: 24x19x15 IN  
BILL THIRD PARTY

TO **TODD VOREIS**  
**TESTAMERICA PITTSBURGH LAB**  
**SEE CHEERS 5 BEFORE BILL**  
**301 ALPHA DR**  
**PITTSBURGH PA 15238**

(402) 517-0842  
REF: 1

Uncorrected temp 3.3 °C  
Thermometer ID 21  
CF 0.6 Initials WK

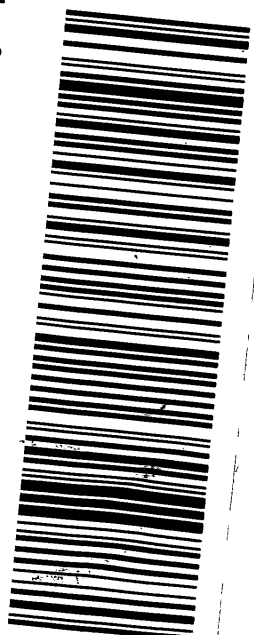
PT-WI-SR-001 effective 11/8/18



THU - 26 OCT 10:30A  
PRIORITY OVERNIGHT  
AHS 15238  
PA-US PIT

3 of 4  
55 4126 2289  
55 4126 2256

**XS AGCA**



Part # 156287438 EXP 05/24

ORIGIN ID: BIXA (402) 517-0342  
TODD VOREIS  
TESTAMERICA PITTSBURGH LAB  
SEE CHEERS 5 BEFORE BILL  
301 ALPHA DR  
PITTSBURGH, PA 15238  
UNITED STATES US

TO **TODD VOREIS**  
**TESTAMERICA PITTSBURGH LAB**  
**SEE CHEERS 5 BEFORE BILL**  
**301 ALPHA DR**  
**PITTSBURGH PA 15238**

(402) 517-0842  
REF: 1

Uncorrected temp 1.6 °C  
Thermometer ID 21  
CF 0.6 Initials WK

PT-WI-SR-001 effective 11/8/18



THU - 26 OCT 10:30A  
PRIORITY OVERNIGHT  
AHS 15238  
PA-US PIT

3 of 4  
MPS# 7855 4126 2278  
Metr# 7855 4126 2256

**XS AGCA**



180-164433 Waybill



Part # 166297498 RRB92-EXP 05/24

SHIP DATE: 25OCT23  
ACTWGT: 66.45 LB  
CAD: 6993600/SSFE2441  
DIMS: 24x19x15 IN  
BILL THIRD PARTY

ORIGIN ID: B1XA (402) 517-0342  
TODD VOREIS  
TESTAMERICA PITTSBURGH LAB  
SEE CHECKS 5 BEFORE BILL  
301 ALPHA DR  
PITTSBURGH, PA 15238  
UNITED STATES US

**TODD VOREIS**  
**TESTAMERICA PITTSBURGH LAB**  
**SEE CHECKS 5 BEFORE BILL**  
**301 ALPHA DR**  
**PITTSBURGH PA 15238**

REF: (402) 517-0342

DEPT: \_\_\_\_\_



Uncorrected temp 19 °C  
Thermometer ID 21  
CF Ab Initials Wk

PT-WI-SR-001 effective 11/8/18

FedEx Express 

J234023101501

THU - 26 OCT 10:30A  
PRIORITY OVERNIGHT  
AHS 15238  
PIT

Page 1 of 4  
MPS# 7855 4126 2256  
Met# MASTER ##

**XS AGCA**




PA-US

ORIGIN ID: B1XA (402) 517-0342  
TODD VOREIS  
TESTAMERICA PITTSBURGH LAB  
SEE CHECKS 5 BEFORE BILL  
301 ALPHA DR  
PITTSBURGH, PA 15238  
UNITED STATES US

**TODD VOREIS**  
**TESTAMERICA PITTSBURGH LAB**  
**SEE CHECKS 5 BEFORE BILL**  
**301 ALPHA DR**  
**PITTSBURGH PA 15238**


REF: (402) 517-0342

DEPT: \_\_\_\_\_



Uncorrected temp 20 °C  
Thermometer ID 21  
CF Ab Initials Wk

PT-WI-SR-001 effective 11/8/18

FedEx Express 

J234023101501

THU - 26 OCT 10:30A  
PRIORITY OVERNIGHT  
AHS 15238  
PIT

Page 2 of 4  
MPS# 7855 4126 2267  
Met# 7855 4126 2256

**XS AGCA**



PA-US



**Eurofins Pittsburgh**

301 Alpha Drive RIDC Park  
Pittsburgh, PA 15238  
Phone: 412-963-7058 Fax: 412-963-2468

**Chain of Custody Record**



Environment Testing

|   |  |                               |                             |   |  |                                   |                            |   |                            |   |  |
|---|--|-------------------------------|-----------------------------|---|--|-----------------------------------|----------------------------|---|----------------------------|---|--|
| <b>Client Information (Sub Contract Lab)</b>  |  | Sampler: Brown, Shali         |                             | Lab PM: Brown, Shali                    |  | Carrier Tracking No(s):           |                            | COC No: 180-498487.1                    |                            |   |  |
| Client Contact: Shipping/Receiving  |  | Phone:                        |                             | E-Mail: Shali.Brown@et.eurofinsus.com   |  | State of Origin: Mississippi      |                            | Page: Page 1 of 2                       |                            |   |  |
| Company: Eurofins Environment Testing Southeast   |  |                               |                             | Accreditations Required (See note):     |  |                                   |                            | Job #: 180-164433-1                     |                            |   |  |
| Address: 5102 LaRoche Avenue, Savannah, GA, 31404   |  | Due Date Requested: 11/8/2023 |                             | <b>Analysis Requested</b>               |  |                                   |                            |   |                            | <b>Preservation Codes:</b><br>A - HCL M - Hexane<br>B - NaOH N - None<br>C - Zn Acetate O - AsNaO2<br>D - Nitric Acid P - Na2O4S<br>E - NaHSO4 Q - Na2SO3<br>F - MeOH R - Na2S2O3<br>G - Amchlor S - H2SO4<br>H - Ascorbic Acid T - TSP Dodecahydrate<br>I - Ice U - Acetone<br>J - DI Water V - MCAA<br>K - EDTA W - pH 4-5<br>L - EDA Y - Trizma<br>Z - other (specify) |  |
| City: Savannah  |  | TAT Requested (days):         |                             |   |  |                                   |                            |   |                            |   |  |
| State, Zip: GA, 31404   |  | PO #:                         |                             | Field Filtered Sample (Yes or No)       |  | Perform MS/MSD (Yes or No)        |                            | Total Number of containers              |                            |   |  |
| Phone: 912-354-7858(Tel) 912-352-0165(Fax)  |  | WO #:                         |                             | 6020B/3006A Custom 14 (Appill + App IV) |  |                                   |                            |   |                            |   |  |
| Email:  |  | Project #:                    |                             |   |  |                                   |                            |   |                            |   |  |
| Project Name: Plant Daniel Ash Pond B CCR   |  | SSOW#:                        |                             |   |  |                                   |                            |   |                            |   |  |
| Site:   |  |                               |                             |   |  |                                   |                            |   |                            |   |  |
| <b>Sample Identification - Client ID (Lab ID)</b>   |  | <b>Sample Date</b>            | <b>Sample Time</b>          | <b>Sample Type (C=Comp, G=grab)</b>     | <b>Matrix (W=water, S=solid, O=water/oil, BT=Tissue, A=Air)</b>  | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 6020B/3006A Custom 14 (Appill + App IV) | Total Number of containers | <b>Special Instructions/Note:</b>   |  |
|   |  |                               |                             | <b>Preservation Code:</b>               |  |                                   |                            |   |                            |   |  |
| BAW-7 (180-164433-1)  |  | 10/24/23                      | 11:20 Central               |   | Water  |                                   | X                          |   | 1                          |   |  |
| BAW-1 (180-164433-2)  |  | 10/24/23                      | 12:25 Central               |   | Water  |                                   | X                          |   | 1                          |   |  |
| BAW-2A (180-164433-3)   |  | 10/24/23                      | 14:01 Central               |   | Water  |                                   | X                          |   | 1                          |   |  |
| BAW-8 (180-164433-4)  |  | 10/24/23                      | 16:35 Central               |   | Water  |                                   | X                          |   | 1                          |   |  |
| BAW-9 (180-164433-5)  |  | 10/24/23                      | 18:30 Central               |   | Water  |                                   | X                          |   | 1                          |   |  |
| EB-01 (180-164433-6)  |  | 10/24/23                      | 15:07 Central               |   | Water  |                                   | X                          |   | 1                          |   |  |
| FB-01 (180-164433-7)  |  | 10/24/23                      | 15:25 Central               |   | Water  |                                   | X                          |   | 1                          |   |  |
| DUP-01 (180-164433-8)   |  | 10/24/23                      | 13:01 Central               |   | Water  |                                   | X                          |   | 1                          |   |  |
| BAW-3 (180-164433-9)  |  | 10/25/23                      | 09:49 Central               |   | Water  |                                   | X                          |   | 1                          |   |  |
| <p>Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte &amp; accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.</p> |  |                               |                             |   |  |                                   |                            |   |                            |   |  |
| <b>Possible Hazard Identification</b>   |  |                               |                             |   | <b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>  |                                   |                            |   |                            |   |  |
| Unconfirmed   |  |                               |                             |   | <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months |                                   |                            |   |                            |   |  |
| Deliverable Requested: I, II, III, IV, Other (specify)  |  |                               | Primary Deliverable Rank: 2 |   | Special Instructions/QC Requirements:  |                                   |                            |   |                            |   |  |
| Empty Kit Relinquished by:  |  | Date:                         |                             | Time:                                   |  | Method of Shipment:               |                            |   |                            |   |  |
| Relinquished by: <i>[Signature]</i>   |  | Date/Time: 10-27-23 12:00     |                             | Company: EPi/MT                         |  | Received by: <i>[Signature]</i>   |                            | Date/Time: 10-28-23                     |                            | Company:  |  |
| Relinquished by:  |  | Date/Time:                    |                             | Company:                                |  | Received by:                      |                            | Date/Time: 9:58                         |                            | Company:  |  |
| Relinquished by:  |  | Date/Time:                    |                             | Company:                                |  | Received by:                      |                            | Date/Time:                              |                            | Company:  |  |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No  |  | Custody Seal No.:             |                             |   | Cooler Temperature(s) °C and Other Remarks: 1-9-23   |                                   |                            |   |                            |   |  |





## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-164433-1

**Login Number: 164433**

**List Source: Eurofins Pittsburgh**

**List Number: 1**

**Creator: Abernathy, Eric L**

| Question  | Answer | Comment   |
|---|--------|---|
| Radioactivity wasn't checked or is < /= background as measured by a survey meter. | N/A    |   |
| The cooler's custody seal, if present, is intact.                                 | True   |   |
| Sample custody seals, if present, are intact.                                     | True   |   |
| The cooler or samples do not appear to have been compromised or tampered with.    | True   |   |
| Samples were received on ice.   | True   |   |
| Cooler Temperature is acceptable.   | True   |   |
| Cooler Temperature is recorded.   | True   |   |
| COC is present.   | True   |   |
| COC is filled out in ink and legible.   | True   |   |
| COC is filled out with all pertinent information.                                 | True   |   |
| Is the Field Sampler's name present on COC?                                       | True   |   |
| There are no discrepancies between the containers received and the COC.           | False  |   |
| Samples are received within Holding Time (excluding tests with immediate HTs)     | True   |   |
| Sample containers have legible labels.  | True   |   |
| Containers are not broken or leaking.   | True   |   |
| Sample collection date/times are provided.  | True   |   |
| Appropriate sample containers are used.   | True   |   |
| Sample bottles are completely filled.   | True   |   |
| Sample Preservation Verified.   | True   |   |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs  | True   |   |
| Containers requiring zero headspace have no headspace or bubble is < 6mm (1/4").  | True   |   |
| Multiphasic samples are not present.  | True   |   |
| Samples do not require splitting or compositing.                                  | False  | Sample splitting required for subcontract purposes. |
| Residual Chlorine Checked.  | N/A    |   |

# Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-164433-1

**Login Number: 164433**

**List Number: 2**

**Creator: Harley, Tynisha**

**List Source: Eurofins Savannah**

**List Creation: 10/28/23 01:44 PM**

| Question   | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A    |         |
| The cooler's custody seal, if present, is intact.                                | True   |         |
| Sample custody seals, if present, are intact.                                    | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |         |
| Samples were received on ice.  | True   |         |
| Cooler Temperature is acceptable.  | True   |         |
| Cooler Temperature is recorded.  | True   |         |
| COC is present.  | True   |         |
| COC is filled out in ink and legible.  | True   |         |
| COC is filled out with all pertinent information.                                | True   |         |
| Is the Field Sampler's name present on COC?                                      | True   |         |
| There are no discrepancies between the containers received and the COC.          | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)    | True   |         |
| Sample containers have legible labels.   | True   |         |
| Containers are not broken or leaking.  | True   |         |
| Sample collection date/times are provided.                                       | True   |         |
| Appropriate sample containers are used.  | True   |         |
| Sample bottles are completely filled.  | True   |         |
| Sample Preservation Verified.  | N/A    |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | N/A    |         |
| Multiphasic samples are not present.   | True   |         |
| Samples do not require splitting or compositing.                                 | True   |         |
| Residual Chlorine Checked.   | N/A    |         |



 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Robert (Trey) Singleton  
Southern Company  
3535 Colonnade Parkway  
Bin S 530 EC  
Birmingham, Alabama 35243

Generated 12/5/2023 4:58:42 PM

**JOB DESCRIPTION**

Plant Daniel Ash Pond B

**JOB NUMBER**

180-164433-2

# Eurofins Pittsburgh

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

PA Lab ID: 02-00416

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Pittsburgh Project Manager.

## Authorization



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12/5/2023 4:58:42 PM

Authorized for release by  
Shali Brown, Project Manager II  
[Shali.Brown@et.eurofinsus.com](mailto:Shali.Brown@et.eurofinsus.com)  
(615)301-5031





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# Case Narrative

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-2

**Job ID: 180-164433-2**

**Laboratory: Eurofins Pittsburgh**

## Narrative

### Job Narrative 180-164433-2

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Receipt

The samples were received on 10/26/2023 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.0°C, 1.3°C, 1.4°C and 2.7°C

### Receipt Exceptions

The container labels for the following sample did not match the information listed on the Chain-of-Custody (COC) The container labels list a collection time of 11:25 while the COC lists 12:25. The time on the COC was used.

### Gas Flow Proportional Counter

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### Rad

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

# Definitions/Glossary

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-2

## Qualifiers

### Rad

| Qualifier | Qualifier Description                           |
|-----------|---|
| U         | Result is less than the sample detection limit. |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|---|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery  |
| CFL            | Contains Free Liquid  |
| CFU            | Colony Forming Unit   |
| CNF            | Contains No Free Liquid   |
| DER            | Duplicate Error Ratio (normalized absolute difference)  |
| Dil Fac        | Dilution Factor   |
| DL             | Detection Limit (DoD/DOE)   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)   |
| EDL            | Estimated Detection Limit (Dioxin)  |
| LOD            | Limit of Detection (DoD/DOE)  |
| LOQ            | Limit of Quantitation (DoD/DOE)   |
| MCL            | EPA recommended "Maximum Contaminant Level"   |
| MDA            | Minimum Detectable Activity (Radiochemistry)  |
| MDC            | Minimum Detectable Concentration (Radiochemistry)   |
| MDL            | Method Detection Limit  |
| ML             | Minimum Level (Dioxin)  |
| MPN            | Most Probable Number  |
| MQL            | Method Quantitation Limit   |
| NC             | Not Calculated  |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)  |
| NEG            | Negative / Absent   |
| POS            | Positive / Present  |
| PQL            | Practical Quantitation Limit  |
| PRES           | Presumptive   |
| QC             | Quality Control   |
| RER            | Relative Error Ratio (Radiochemistry)   |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)   |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)   |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)   |
| TNTC           | Too Numerous To Count   |

# Accreditation/Certification Summary

Client: Southern Company  
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-2

## Laboratory: Eurofins St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority                | Program                                 | Identification Number      | Expiration Date |
|--------------------------|---|----------------------------|-----------------|
| Alaska (UST)             | State                                   | 20-001                     | 05-06-25        |
| ANAB                     | Dept. of Defense ELAP                   | L2305                      | 04-06-25        |
| ANAB                     | Dept. of Energy                         | L2305.01                   | 04-06-25        |
| ANAB                     | ISO/IEC 17025                           | L2305                      | 04-06-25        |
| Arizona                  | State                                   | AZ0813                     | 12-08-23        |
| California               | Los Angeles County Sanitation Districts | 10259                      | 06-30-22 *      |
| California               | State                                   | 2886                       | 06-30-24        |
| Connecticut              | State                                   | PH-0241                    | 03-31-25        |
| Florida                  | NELAP                                   | E87689                     | 06-30-24        |
| HI - RadChem Recognition | State                                   | n/a                        | 06-30-24        |
| Illinois                 | NELAP                                   | 200023                     | 11-30-24        |
| Iowa                     | State                                   | 373                        | 12-01-24        |
| Kansas                   | NELAP                                   | E-10236                    | 10-31-24        |
| Kentucky (DW)            | State                                   | KY90125                    | 12-31-23        |
| Kentucky (WW)            | State                                   | KY90125 (Permit KY0004049) | 12-31-23        |
| Louisiana                | NELAP                                   | 04080                      | 06-30-22 *      |
| Louisiana (All)          | NELAP                                   | 04080                      | 06-30-24        |
| Louisiana (DW)           | State                                   | LA011                      | 12-31-23        |
| Maryland                 | State                                   | 310                        | 09-30-24        |
| Massachusetts            | State                                   | M-MO054                    | 06-30-24        |
| MI - RadChem Recognition | State                                   | 9005                       | 06-30-24        |
| Missouri                 | State                                   | 780                        | 06-30-25        |
| Nevada                   | State                                   | MO000542020-1              | 07-31-24        |
| New Jersey               | NELAP                                   | MO002                      | 06-30-24        |
| New Mexico               | State                                   | MO00054                    | 06-30-24        |
| New York                 | NELAP                                   | 11616                      | 03-31-24        |
| North Carolina (DW)      | State                                   | 29700                      | 07-31-24        |
| North Dakota             | State                                   | R-207                      | 06-30-24        |
| Oklahoma                 | NELAP                                   | 9997                       | 08-31-24        |
| Oregon                   | NELAP                                   | 4157                       | 09-01-24        |
| Pennsylvania             | NELAP                                   | 68-00540                   | 02-28-24        |
| South Carolina           | State                                   | 85002001                   | 06-30-24        |
| Texas                    | NELAP                                   | T104704193                 | 07-31-24        |
| US Fish & Wildlife       | US Federal Programs                     | 058448                     | 07-31-24        |
| USDA                     | US Federal Programs                     | P330-17-00028              | 05-18-26        |
| Utah                     | NELAP                                   | MO000542021-14             | 07-31-24        |
| Virginia                 | NELAP                                   | 10310                      | 06-15-25        |
| Washington               | State                                   | C592                       | 08-30-24        |
| West Virginia DEP        | State                                   | 381                        | 12-31-23        |

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Sample Summary

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-2

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 180-164433-1  | BAW-7            | Water  | 10/24/23 11:20 | 10/26/23 10:30 |
| 180-164433-2  | BAW-1            | Water  | 10/24/23 12:25 | 10/26/23 10:30 |
| 180-164433-3  | BAW-2A           | Water  | 10/24/23 14:01 | 10/26/23 10:30 |
| 180-164433-4  | BAW-8            | Water  | 10/24/23 16:35 | 10/26/23 10:30 |
| 180-164433-5  | BAW-9            | Water  | 10/24/23 18:30 | 10/26/23 10:30 |
| 180-164433-6  | EB-01            | Water  | 10/24/23 15:07 | 10/26/23 10:30 |
| 180-164433-7  | FB-01            | Water  | 10/24/23 15:25 | 10/26/23 10:30 |
| 180-164433-8  | DUP-01           | Water  | 10/24/23 13:01 | 10/26/23 10:30 |
| 180-164433-9  | BAW-3            | Water  | 10/25/23 09:49 | 10/26/23 10:30 |
| 180-164433-10 | BAW-4            | Water  | 10/25/23 12:35 | 10/26/23 10:30 |
| 180-164433-11 | BAW-5            | Water  | 10/25/23 14:05 | 10/26/23 10:30 |
| 180-164433-12 | DUP-02           | Water  | 10/25/23 08:49 | 10/26/23 10:30 |

- 1
- 2
- 3
- 4
- 5
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- 10
- 11
- 12
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# Method Summary

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-2

| Method      | Method Description                                     | Protocol | Laboratory |
|-------------|--|----------|------------|
| 9315        | Radium-226 (GFPC)                                      | SW846    | EET SL     |
| 9320        | Radium-228 (GFPC)                                      | SW846    | EET SL     |
| Ra226_Ra228 | Combined Radium-226 and Radium-228                     | TAL-STL  | EET SL     |
| PrecSep_0   | Preparation, Precipitate Separation                    | None     | EET SL     |
| PrecSep-21  | Preparation, Precipitate Separation (21-Day In-Growth) | None     | EET SL     |

#### Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

#### Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-2

## Client Sample ID: BAW-7

Date Collected: 10/24/23 11:20

Date Received: 10/26/23 10:30

## Lab Sample ID: 180-164433-1

Matrix: Water

| Prep Type                 | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA                  | Prep       | PrecSep-21   |     |            | 999.70 mL      | 1.0 g        | 634966       | 11/02/23 10:03       | KAC     | EET SL |
| Total/NA                  | Analysis   | 9315         |     | 1          |                |              | 639153       | 12/01/23 13:57       | SCB     | EET SL |
| Instrument ID: GFPCPURPLE |            |              |     |            |                |              |              |                      |         |        |
| Total/NA                  | Prep       | PrecSep_0    |     |            | 999.70 mL      | 1.0 g        | 634968       | 11/02/23 10:06       | KAC     | EET SL |
| Total/NA                  | Analysis   | 9320         |     | 1          |                |              | 638434       | 11/28/23 15:40       | FLC     | EET SL |
| Instrument ID: GFPCRED    |            |              |     |            |                |              |              |                      |         |        |
| Total/NA                  | Analysis   | Ra226_Ra228  |     | 1          |                |              | 639179       | 12/01/23 21:42       | SCB     | EET SL |
| Instrument ID: NOEQUIP    |            |              |     |            |                |              |              |                      |         |        |

## Client Sample ID: BAW-1

Date Collected: 10/24/23 12:25

Date Received: 10/26/23 10:30

## Lab Sample ID: 180-164433-2

Matrix: Water

| Prep Type                 | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA                  | Prep       | PrecSep-21   |     |            | 1001.33 mL     | 1.0 g        | 634966       | 11/02/23 10:03       | KAC     | EET SL |
| Total/NA                  | Analysis   | 9315         |     | 1          |                |              | 639153       | 12/01/23 13:57       | SCB     | EET SL |
| Instrument ID: GFPCPURPLE |            |              |     |            |                |              |              |                      |         |        |
| Total/NA                  | Prep       | PrecSep_0    |     |            | 1001.33 mL     | 1.0 g        | 634968       | 11/02/23 10:06       | KAC     | EET SL |
| Total/NA                  | Analysis   | 9320         |     | 1          |                |              | 638434       | 11/28/23 15:42       | FLC     | EET SL |
| Instrument ID: GFPCRED    |            |              |     |            |                |              |              |                      |         |        |
| Total/NA                  | Analysis   | Ra226_Ra228  |     | 1          |                |              | 639179       | 12/01/23 21:42       | SCB     | EET SL |
| Instrument ID: NOEQUIP    |            |              |     |            |                |              |              |                      |         |        |

## Client Sample ID: BAW-2A

Date Collected: 10/24/23 14:01

Date Received: 10/26/23 10:30

## Lab Sample ID: 180-164433-3

Matrix: Water

| Prep Type              | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA               | Prep       | PrecSep-21   |     |            | 996.69 mL      | 1.0 g        | 634966       | 11/02/23 10:03       | KAC     | EET SL |
| Total/NA               | Analysis   | 9315         |     | 1          |                |              | 638995       | 12/01/23 15:55       | SCB     | EET SL |
| Instrument ID: GFPCRED |            |              |     |            |                |              |              |                      |         |        |
| Total/NA               | Prep       | PrecSep_0    |     |            | 996.69 mL      | 1.0 g        | 634968       | 11/02/23 10:06       | KAC     | EET SL |
| Total/NA               | Analysis   | 9320         |     | 1          |                |              | 638434       | 11/28/23 15:42       | FLC     | EET SL |
| Instrument ID: GFPCRED |            |              |     |            |                |              |              |                      |         |        |
| Total/NA               | Analysis   | Ra226_Ra228  |     | 1          |                |              | 639179       | 12/01/23 21:42       | SCB     | EET SL |
| Instrument ID: NOEQUIP |            |              |     |            |                |              |              |                      |         |        |

## Client Sample ID: BAW-8

Date Collected: 10/24/23 16:35

Date Received: 10/26/23 10:30

## Lab Sample ID: 180-164433-4

Matrix: Water

| Prep Type              | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA               | Prep       | PrecSep-21   |     |            | 1002.23 mL     | 1.0 g        | 634966       | 11/02/23 10:03       | KAC     | EET SL |
| Total/NA               | Analysis   | 9315         |     | 1          |                |              | 638995       | 12/01/23 15:55       | SCB     | EET SL |
| Instrument ID: GFPCRED |            |              |     |            |                |              |              |                      |         |        |

Eurofins Pittsburgh

# Lab Chronicle

Client: Southern Company  
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-2

**Client Sample ID: BAW-8**  
**Date Collected: 10/24/23 16:35**  
**Date Received: 10/26/23 10:30**

**Lab Sample ID: 180-164433-4**  
**Matrix: Water**

| Prep Type              | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA               | Prep       | PrecSep_0    |     |            | 1002.23 mL     | 1.0 g        | 634968       | 11/02/23 10:06       | KAC     | EET SL |
| Total/NA               | Analysis   | 9320         |     | 1          |                |              | 638434       | 11/28/23 15:42       | FLC     | EET SL |
| Instrument ID: GFPCRED |            |              |     |            |                |              |              |                      |         |        |
| Total/NA               | Analysis   | Ra226_Ra228  |     | 1          |                |              | 639179       | 12/01/23 21:42       | SCB     | EET SL |
| Instrument ID: NOEQUIP |            |              |     |            |                |              |              |                      |         |        |

**Client Sample ID: BAW-9**  
**Date Collected: 10/24/23 18:30**  
**Date Received: 10/26/23 10:30**

**Lab Sample ID: 180-164433-5**  
**Matrix: Water**

| Prep Type              | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA               | Prep       | PrecSep-21   |     |            | 1000.43 mL     | 1.0 g        | 634966       | 11/02/23 10:03       | KAC     | EET SL |
| Total/NA               | Analysis   | 9315         |     | 1          |                |              | 638995       | 12/01/23 15:55       | SCB     | EET SL |
| Instrument ID: GFPCRED |            |              |     |            |                |              |              |                      |         |        |
| Total/NA               | Prep       | PrecSep_0    |     |            | 1000.43 mL     | 1.0 g        | 634968       | 11/02/23 10:06       | KAC     | EET SL |
| Total/NA               | Analysis   | 9320         |     | 1          |                |              | 638434       | 11/28/23 15:43       | FLC     | EET SL |
| Instrument ID: GFPCRED |            |              |     |            |                |              |              |                      |         |        |
| Total/NA               | Analysis   | Ra226_Ra228  |     | 1          |                |              | 639179       | 12/01/23 21:42       | SCB     | EET SL |
| Instrument ID: NOEQUIP |            |              |     |            |                |              |              |                      |         |        |

**Client Sample ID: EB-01**  
**Date Collected: 10/24/23 15:07**  
**Date Received: 10/26/23 10:30**

**Lab Sample ID: 180-164433-6**  
**Matrix: Water**

| Prep Type              | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA               | Prep       | PrecSep-21   |     |            | 997.22 mL      | 1.0 g        | 634966       | 11/02/23 10:03       | KAC     | EET SL |
| Total/NA               | Analysis   | 9315         |     | 1          |                |              | 638995       | 12/01/23 15:55       | SCB     | EET SL |
| Instrument ID: GFPCRED |            |              |     |            |                |              |              |                      |         |        |
| Total/NA               | Prep       | PrecSep_0    |     |            | 997.22 mL      | 1.0 g        | 634968       | 11/02/23 10:06       | KAC     | EET SL |
| Total/NA               | Analysis   | 9320         |     | 1          |                |              | 638434       | 11/28/23 15:43       | FLC     | EET SL |
| Instrument ID: GFPCRED |            |              |     |            |                |              |              |                      |         |        |
| Total/NA               | Analysis   | Ra226_Ra228  |     | 1          |                |              | 639179       | 12/01/23 21:42       | SCB     | EET SL |
| Instrument ID: NOEQUIP |            |              |     |            |                |              |              |                      |         |        |

**Client Sample ID: FB-01**  
**Date Collected: 10/24/23 15:25**  
**Date Received: 10/26/23 10:30**

**Lab Sample ID: 180-164433-7**  
**Matrix: Water**

| Prep Type              | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA               | Prep       | PrecSep-21   |     |            | 998.08 mL      | 1.0 g        | 634966       | 11/02/23 10:03       | KAC     | EET SL |
| Total/NA               | Analysis   | 9315         |     | 1          |                |              | 638995       | 12/01/23 15:58       | SCB     | EET SL |
| Instrument ID: GFPCRED |            |              |     |            |                |              |              |                      |         |        |
| Total/NA               | Prep       | PrecSep_0    |     |            | 998.08 mL      | 1.0 g        | 634968       | 11/02/23 10:06       | KAC     | EET SL |
| Total/NA               | Analysis   | 9320         |     | 1          |                |              | 638434       | 11/28/23 15:43       | FLC     | EET SL |
| Instrument ID: GFPCRED |            |              |     |            |                |              |              |                      |         |        |

Eurofins Pittsburgh



# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-2

## Client Sample ID: FB-01

Lab Sample ID: 180-164433-7

Date Collected: 10/24/23 15:25

Matrix: Water

Date Received: 10/26/23 10:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1          |                |              | 639179       | 12/01/23 21:42       | SCB     | EET SL |

## Client Sample ID: DUP-01

Lab Sample ID: 180-164433-8

Date Collected: 10/24/23 13:01

Matrix: Water

Date Received: 10/26/23 10:30

| Prep Type              | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA               | Prep       | PrecSep-21   |     |            | 999.54 mL      | 1.0 g        | 634966       | 11/02/23 10:03       | KAC     | EET SL |
| Total/NA               | Analysis   | 9315         |     | 1          |                |              | 638995       | 12/01/23 15:58       | SCB     | EET SL |
| Instrument ID: GFPCRED |            |              |     |            |                |              |              |                      |         |        |
| Total/NA               | Prep       | PrecSep_0    |     |            | 999.54 mL      | 1.0 g        | 634968       | 11/02/23 10:06       | KAC     | EET SL |
| Total/NA               | Analysis   | 9320         |     | 1          |                |              | 638434       | 11/28/23 15:43       | FLC     | EET SL |
| Instrument ID: GFPCRED |            |              |     |            |                |              |              |                      |         |        |
| Total/NA               | Analysis   | Ra226_Ra228  |     | 1          |                |              | 639179       | 12/01/23 21:42       | SCB     | EET SL |
| Instrument ID: NOEQUIP |            |              |     |            |                |              |              |                      |         |        |

## Client Sample ID: BAW-3

Lab Sample ID: 180-164433-9

Date Collected: 10/25/23 09:49

Matrix: Water

Date Received: 10/26/23 10:30

| Prep Type              | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA               | Prep       | PrecSep-21   |     |            | 994.97 mL      | 1.0 g        | 634966       | 11/02/23 10:03       | KAC     | EET SL |
| Total/NA               | Analysis   | 9315         |     | 1          |                |              | 638995       | 12/01/23 15:58       | SCB     | EET SL |
| Instrument ID: GFPCRED |            |              |     |            |                |              |              |                      |         |        |
| Total/NA               | Prep       | PrecSep_0    |     |            | 994.97 mL      | 1.0 g        | 634968       | 11/02/23 10:06       | KAC     | EET SL |
| Total/NA               | Analysis   | 9320         |     | 1          |                |              | 638434       | 11/28/23 15:43       | FLC     | EET SL |
| Instrument ID: GFPCRED |            |              |     |            |                |              |              |                      |         |        |
| Total/NA               | Analysis   | Ra226_Ra228  |     | 1          |                |              | 639179       | 12/01/23 21:42       | SCB     | EET SL |
| Instrument ID: NOEQUIP |            |              |     |            |                |              |              |                      |         |        |

## Client Sample ID: BAW-4

Lab Sample ID: 180-164433-10

Date Collected: 10/25/23 12:35

Matrix: Water

Date Received: 10/26/23 10:30

| Prep Type               | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA                | Prep       | PrecSep-21   |     |            | 999.44 mL      | 1.0 g        | 634966       | 11/02/23 10:03       | KAC     | EET SL |
| Total/NA                | Analysis   | 9315         |     | 1          |                |              | 638995       | 12/01/23 15:58       | SCB     | EET SL |
| Instrument ID: GFPCRED  |            |              |     |            |                |              |              |                      |         |        |
| Total/NA                | Prep       | PrecSep_0    |     |            | 999.44 mL      | 1.0 g        | 634968       | 11/02/23 10:06       | KAC     | EET SL |
| Total/NA                | Analysis   | 9320         |     | 1          |                |              | 638569       | 11/28/23 15:50       | FLC     | EET SL |
| Instrument ID: GFPCBLUE |            |              |     |            |                |              |              |                      |         |        |
| Total/NA                | Analysis   | Ra226_Ra228  |     | 1          |                |              | 639179       | 12/01/23 21:42       | SCB     | EET SL |
| Instrument ID: NOEQUIP  |            |              |     |            |                |              |              |                      |         |        |

# Lab Chronicle

Client: Southern Company  
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-2

**Client Sample ID: BAW-5**  
**Date Collected: 10/25/23 14:05**  
**Date Received: 10/26/23 10:30**

**Lab Sample ID: 180-164433-11**  
**Matrix: Water**

| Prep Type               | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA                | Prep       | PrecSep-21   |     |            | 995.09 mL      | 1.0 g        | 634966       | 11/02/23 10:03       | KAC     | EET SL |
| Total/NA                | Analysis   | 9315         |     | 1          |                |              | 638995       | 12/01/23 15:59       | SCB     | EET SL |
| Instrument ID: GFPCRED  |            |              |     |            |                |              |              |                      |         |        |
| Total/NA                | Prep       | PrecSep_0    |     |            | 995.09 mL      | 1.0 g        | 634968       | 11/02/23 10:06       | KAC     | EET SL |
| Total/NA                | Analysis   | 9320         |     | 1          |                |              | 638569       | 11/28/23 15:50       | FLC     | EET SL |
| Instrument ID: GFPCBLUE |            |              |     |            |                |              |              |                      |         |        |
| Total/NA                | Analysis   | Ra226_Ra228  |     | 1          |                |              | 639179       | 12/01/23 21:42       | SCB     | EET SL |
| Instrument ID: NOEQUIP  |            |              |     |            |                |              |              |                      |         |        |

**Client Sample ID: DUP-02**  
**Date Collected: 10/25/23 08:49**  
**Date Received: 10/26/23 10:30**

**Lab Sample ID: 180-164433-12**  
**Matrix: Water**

| Prep Type               | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA                | Prep       | PrecSep-21   |     |            | 991.66 mL      | 1.0 g        | 634959       | 11/02/23 09:53       | KAC     | EET SL |
| Total/NA                | Analysis   | 9315         |     | 1          | 1.0 mL         | 1.0 mL       | 639150       | 12/01/23 20:12       | SCB     | EET SL |
| Instrument ID: GFPCBLUE |            |              |     |            |                |              |              |                      |         |        |
| Total/NA                | Prep       | PrecSep_0    |     |            | 991.66 mL      | 1.0 g        | 634965       | 11/02/23 10:00       | KAC     | EET SL |
| Total/NA                | Analysis   | 9320         |     | 1          | 1.0 mL         | 1.0 mL       | 638362       | 11/27/23 16:02       | FLC     | EET SL |
| Instrument ID: GFPCBLUE |            |              |     |            |                |              |              |                      |         |        |
| Total/NA                | Analysis   | Ra226_Ra228  |     | 1          |                |              | 639395       | 12/04/23 22:20       | EMH     | EET SL |
| Instrument ID: NOEQUIP  |            |              |     |            |                |              |              |                      |         |        |

**Laboratory References:**

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

**Analyst References:**

Lab: EET SL

Batch Type: Prep

KAC = Kevin Cox

Batch Type: Analysis

EMH = Elizabeth Hoerchler

FLC = Fernando Cruz

SCB = Sarah Bernsen

# Client Sample Results

Client: Southern Company  
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-2

**Client Sample ID: BAW-7**

**Lab Sample ID: 180-164433-1**

Date Collected: 10/24/23 11:20

Matrix: Water

Date Received: 10/26/23 10:30

**Method: SW846 9315 - Radium-226 (GFPC)**

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.229  |           | 0.128                       | 0.130                       | 1.00 | 0.169 | pCi/L | 11/02/23 10:03 | 12/01/23 13:57 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 93.1   |           | 30 - 110                    |                             |      |       |       | 11/02/23 10:03 | 12/01/23 13:57 | 1       |

**Method: SW846 9320 - Radium-228 (GFPC)**

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.471  | U         | 0.320                       | 0.323                       | 1.00 | 0.482 | pCi/L | 11/02/23 10:06 | 11/28/23 15:40 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 93.1   |           | 30 - 110                    |                             |      |       |       | 11/02/23 10:06 | 11/28/23 15:40 | 1       |
| Y Carrier  | 91.6   |           | 30 - 110                    |                             |      |       |       | 11/02/23 10:06 | 11/28/23 15:40 | 1       |

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium<br>226 + 228 | 0.700  |           | 0.345                       | 0.348                       | 5.00 | 0.482 | pCi/L |          | 12/01/23 21:42 | 1       |

**Client Sample ID: BAW-1**

**Lab Sample ID: 180-164433-2**

Date Collected: 10/24/23 12:25

Matrix: Water

Date Received: 10/26/23 10:30

**Method: SW846 9315 - Radium-226 (GFPC)**

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.108  | U         | 0.112                       | 0.112                       | 1.00 | 0.178 | pCi/L | 11/02/23 10:03 | 12/01/23 13:57 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 89.1   |           | 30 - 110                    |                             |      |       |       | 11/02/23 10:03 | 12/01/23 13:57 | 1       |

**Method: SW846 9320 - Radium-228 (GFPC)**

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.456  | U         | 0.322                       | 0.325                       | 1.00 | 0.484 | pCi/L | 11/02/23 10:06 | 11/28/23 15:42 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 89.1   |           | 30 - 110                    |                             |      |       |       | 11/02/23 10:06 | 11/28/23 15:42 | 1       |
| Y Carrier  | 86.7   |           | 30 - 110                    |                             |      |       |       | 11/02/23 10:06 | 11/28/23 15:42 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-2

**Client Sample ID: BAW-1**

**Lab Sample ID: 180-164433-2**

Date Collected: 10/24/23 12:25

Matrix: Water

Date Received: 10/26/23 10:30

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium<br>226 + 228 | 0.563  |           | 0.341                       | 0.344                       | 5.00 | 0.484 | pCi/L |          | 12/01/23 21:42 | 1       |

**Client Sample ID: BAW-2A**

**Lab Sample ID: 180-164433-3**

Date Collected: 10/24/23 14:01

Matrix: Water

Date Received: 10/26/23 10:30

**Method: SW846 9315 - Radium-226 (GFPC)**

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-226     | 0.129         | U                | 0.106                       | 0.107                       | 1.00 | 0.157 | pCi/L | 11/02/23 10:03  | 12/01/23 15:55  | 1              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 94.8          |                  | 30 - 110                    |                             |      |       |       | 11/02/23 10:03  | 12/01/23 15:55  | 1              |

**Method: SW846 9320 - Radium-228 (GFPC)**

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228     | 0.392         | U                | 0.301                       | 0.303                       | 1.00 | 0.459 | pCi/L | 11/02/23 10:06  | 11/28/23 15:42  | 1              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 94.8          |                  | 30 - 110                    |                             |      |       |       | 11/02/23 10:06  | 11/28/23 15:42  | 1              |
| Y Carrier      | 84.1          |                  | 30 - 110                    |                             |      |       |       | 11/02/23 10:06  | 11/28/23 15:42  | 1              |

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium<br>226 + 228 | 0.521  |           | 0.319                       | 0.321                       | 5.00 | 0.459 | pCi/L |          | 12/01/23 21:42 | 1       |

**Client Sample ID: BAW-8**

**Lab Sample ID: 180-164433-4**

Date Collected: 10/24/23 16:35

Matrix: Water

Date Received: 10/26/23 10:30

**Method: SW846 9315 - Radium-226 (GFPC)**

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-226     | 0.537         |                  | 0.167                       | 0.174                       | 1.00 | 0.150 | pCi/L | 11/02/23 10:03  | 12/01/23 15:55  | 1              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 96.5          |                  | 30 - 110                    |                             |      |       |       | 11/02/23 10:03  | 12/01/23 15:55  | 1              |

# Client Sample Results

Client: Southern Company  
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-2

**Client Sample ID: BAW-8**

**Lab Sample ID: 180-164433-4**

Date Collected: 10/24/23 16:35

Matrix: Water

Date Received: 10/26/23 10:30

**Method: SW846 9320 - Radium-228 (GFPC)**

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228     | 0.647         |                  | 0.321                       | 0.326                       | 1.00 | 0.433 | pCi/L | 11/02/23 10:06  | 11/28/23 15:42  | 1              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 96.5          |                  | 30 - 110                    |                             |      |       |       | 11/02/23 10:06  | 11/28/23 15:42  | 1              |
| Y Carrier      | 85.2          |                  | 30 - 110                    |                             |      |       |       | 11/02/23 10:06  | 11/28/23 15:42  | 1              |

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium<br>226 + 228 | 1.18   |           | 0.362                       | 0.370                       | 5.00 | 0.433 | pCi/L |          | 12/01/23 21:42 | 1       |

**Client Sample ID: BAW-9**

**Lab Sample ID: 180-164433-5**

Date Collected: 10/24/23 18:30

Matrix: Water

Date Received: 10/26/23 10:30

**Method: SW846 9315 - Radium-226 (GFPC)**

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-226     | 0.257         |                  | 0.130                       | 0.132                       | 1.00 | 0.155 | pCi/L | 11/02/23 10:03  | 12/01/23 15:55  | 1              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 91.6          |                  | 30 - 110                    |                             |      |       |       | 11/02/23 10:03  | 12/01/23 15:55  | 1              |

**Method: SW846 9320 - Radium-228 (GFPC)**

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228     | 0.424         | U                | 0.294                       | 0.297                       | 1.00 | 0.442 | pCi/L | 11/02/23 10:06  | 11/28/23 15:43  | 1              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 91.6          |                  | 30 - 110                    |                             |      |       |       | 11/02/23 10:06  | 11/28/23 15:43  | 1              |
| Y Carrier      | 93.8          |                  | 30 - 110                    |                             |      |       |       | 11/02/23 10:06  | 11/28/23 15:43  | 1              |

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium<br>226 + 228 | 0.680  |           | 0.321                       | 0.325                       | 5.00 | 0.442 | pCi/L |          | 12/01/23 21:42 | 1       |

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# Client Sample Results

Client: Southern Company  
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-2

**Client Sample ID: EB-01**

**Lab Sample ID: 180-164433-6**

Date Collected: 10/24/23 15:07

Matrix: Water

Date Received: 10/26/23 10:30

**Method: SW846 9315 - Radium-226 (GFPC)**

| Analyte    | Result  | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | -0.0138 | U         | 0.0834                      | 0.0834                      | 1.00 | 0.175 | pCi/L | 11/02/23 10:03 | 12/01/23 15:55 | 1       |
| Carrier    | %Yield  | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 96.3    |           | 30 - 110                    |                             |      |       |       | 11/02/23 10:03 | 12/01/23 15:55 | 1       |

**Method: SW846 9320 - Radium-228 (GFPC)**

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.290  | U         | 0.282                       | 0.283                       | 1.00 | 0.451 | pCi/L | 11/02/23 10:06 | 11/28/23 15:43 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 96.3   |           | 30 - 110                    |                             |      |       |       | 11/02/23 10:06 | 11/28/23 15:43 | 1       |
| Y Carrier  | 89.3   |           | 30 - 110                    |                             |      |       |       | 11/02/23 10:06 | 11/28/23 15:43 | 1       |

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | 0.276  | U         | 0.294                       | 0.295                       | 5.00 | 0.451 | pCi/L |          | 12/01/23 21:42 | 1       |

**Client Sample ID: FB-01**

**Lab Sample ID: 180-164433-7**

Date Collected: 10/24/23 15:25

Matrix: Water

Date Received: 10/26/23 10:30

**Method: SW846 9315 - Radium-226 (GFPC)**

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.0977 | U         | 0.0886                      | 0.0891                      | 1.00 | 0.132 | pCi/L | 11/02/23 10:03 | 12/01/23 15:58 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 97.0   |           | 30 - 110                    |                             |      |       |       | 11/02/23 10:03 | 12/01/23 15:58 | 1       |

**Method: SW846 9320 - Radium-228 (GFPC)**

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.0788 | U         | 0.229                       | 0.229                       | 1.00 | 0.412 | pCi/L | 11/02/23 10:06 | 11/28/23 15:43 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 97.0   |           | 30 - 110                    |                             |      |       |       | 11/02/23 10:06 | 11/28/23 15:43 | 1       |
| Y Carrier  | 84.9   |           | 30 - 110                    |                             |      |       |       | 11/02/23 10:06 | 11/28/23 15:43 | 1       |

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# Client Sample Results

Client: Southern Company  
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-2

**Client Sample ID: FB-01**

**Lab Sample ID: 180-164433-7**

Date Collected: 10/24/23 15:25

Matrix: Water

Date Received: 10/26/23 10:30

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | 0.177  | U         | 0.246                       | 0.246                       | 5.00 | 0.412 | pCi/L |          | 12/01/23 21:42 | 1       |

**Client Sample ID: DUP-01**

**Lab Sample ID: 180-164433-8**

Date Collected: 10/24/23 13:01

Matrix: Water

Date Received: 10/26/23 10:30

**Method: SW846 9315 - Radium-226 (GFPC)**

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-226     | 0.243         |                  | 0.122                       | 0.124                       | 1.00 | 0.142 | pCi/L | 11/02/23 10:03  | 12/01/23 15:58  | 1              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 91.6          |                  | 30 - 110                    |                             |      |       |       | 11/02/23 10:03  | 12/01/23 15:58  | 1              |

**Method: SW846 9320 - Radium-228 (GFPC)**

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228     | 0.289         | U                | 0.265                       | 0.266                       | 1.00 | 0.417 | pCi/L | 11/02/23 10:06  | 11/28/23 15:43  | 1              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 91.6          |                  | 30 - 110                    |                             |      |       |       | 11/02/23 10:06  | 11/28/23 15:43  | 1              |
| Y Carrier      | 89.0          |                  | 30 - 110                    |                             |      |       |       | 11/02/23 10:06  | 11/28/23 15:43  | 1              |

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium<br>226 + 228 | 0.532  |           | 0.292                       | 0.293                       | 5.00 | 0.417 | pCi/L |          | 12/01/23 21:42 | 1       |

**Client Sample ID: BAW-3**

**Lab Sample ID: 180-164433-9**

Date Collected: 10/25/23 09:49

Matrix: Water

Date Received: 10/26/23 10:30

**Method: SW846 9315 - Radium-226 (GFPC)**

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-226     | 0.193         |                  | 0.116                       | 0.117                       | 1.00 | 0.150 | pCi/L | 11/02/23 10:03  | 12/01/23 15:58  | 1              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 93.6          |                  | 30 - 110                    |                             |      |       |       | 11/02/23 10:03  | 12/01/23 15:58  | 1              |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-2

**Client Sample ID: BAW-3**

**Lab Sample ID: 180-164433-9**

Date Collected: 10/25/23 09:49

Matrix: Water

Date Received: 10/26/23 10:30

**Method: SW846 9320 - Radium-228 (GFPC)**

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228     | 0.664         |                  | 0.345                       | 0.350                       | 1.00 | 0.479 | pCi/L | 11/02/23 10:06  | 11/28/23 15:43  | 1              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 93.6          |                  | 30 - 110                    |                             |      |       |       | 11/02/23 10:06  | 11/28/23 15:43  | 1              |
| Y Carrier      | 85.6          |                  | 30 - 110                    |                             |      |       |       | 11/02/23 10:06  | 11/28/23 15:43  | 1              |

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                   | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.857  |           | 0.364                       | 0.369                       | 5.00 | 0.479 | pCi/L |          | 12/01/23 21:42 | 1       |

**Client Sample ID: BAW-4**

**Lab Sample ID: 180-164433-10**

Date Collected: 10/25/23 12:35

Matrix: Water

Date Received: 10/26/23 10:30

**Method: SW846 9315 - Radium-226 (GFPC)**

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-226     | 0.193         |                  | 0.118                       | 0.119                       | 1.00 | 0.154 | pCi/L | 11/02/23 10:03  | 12/01/23 15:58  | 1              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 93.1          |                  | 30 - 110                    |                             |      |       |       | 11/02/23 10:03  | 12/01/23 15:58  | 1              |

**Method: SW846 9320 - Radium-228 (GFPC)**

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228     | 0.279         | U                | 0.299                       | 0.300                       | 1.00 | 0.486 | pCi/L | 11/02/23 10:06  | 11/28/23 15:50  | 1              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 93.1          |                  | 30 - 110                    |                             |      |       |       | 11/02/23 10:06  | 11/28/23 15:50  | 1              |
| Y Carrier      | 90.8          |                  | 30 - 110                    |                             |      |       |       | 11/02/23 10:06  | 11/28/23 15:50  | 1              |

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                   | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.472  | U         | 0.321                       | 0.323                       | 5.00 | 0.486 | pCi/L |          | 12/01/23 21:42 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-2

**Client Sample ID: BAW-5**

**Lab Sample ID: 180-164433-11**

Date Collected: 10/25/23 14:05

Matrix: Water

Date Received: 10/26/23 10:30

**Method: SW846 9315 - Radium-226 (GFPC)**

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.502  |           | 0.168                       | 0.174                       | 1.00 | 0.155 | pCi/L | 11/02/23 10:03 | 12/01/23 15:59 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 90.1   |           | 30 - 110                    |                             |      |       |       | 11/02/23 10:03 | 12/01/23 15:59 | 1       |

**Method: SW846 9320 - Radium-228 (GFPC)**

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.984  |           | 0.399                       | 0.409                       | 1.00 | 0.524 | pCi/L | 11/02/23 10:06 | 11/28/23 15:50 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 90.1   |           | 30 - 110                    |                             |      |       |       | 11/02/23 10:06 | 11/28/23 15:50 | 1       |
| Y Carrier  | 89.0   |           | 30 - 110                    |                             |      |       |       | 11/02/23 10:06 | 11/28/23 15:50 | 1       |

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium<br>226 + 228 | 1.49   |           | 0.433                       | 0.444                       | 5.00 | 0.524 | pCi/L |          | 12/01/23 21:42 | 1       |

**Client Sample ID: DUP-02**

**Lab Sample ID: 180-164433-12**

Date Collected: 10/25/23 08:49

Matrix: Water

Date Received: 10/26/23 10:30

**Method: SW846 9315 - Radium-226 (GFPC)**

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.275  |           | 0.125                       | 0.128                       | 1.00 | 0.147 | pCi/L | 11/02/23 09:53 | 12/01/23 20:12 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 96.8   |           | 30 - 110                    |                             |      |       |       | 11/02/23 09:53 | 12/01/23 20:12 | 1       |

**Method: SW846 9320 - Radium-228 (GFPC)**

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.613  |           | 0.349                       | 0.354                       | 1.00 | 0.500 | pCi/L | 11/02/23 10:00 | 11/27/23 16:02 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 96.8   |           | 30 - 110                    |                             |      |       |       | 11/02/23 10:00 | 11/27/23 16:02 | 1       |
| Y Carrier  | 84.5   |           | 30 - 110                    |                             |      |       |       | 11/02/23 10:00 | 11/27/23 16:02 | 1       |

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# Client Sample Results

Client: Southern Company  
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-2

**Client Sample ID: DUP-02**  
**Date Collected: 10/25/23 08:49**  
**Date Received: 10/26/23 10:30**

**Lab Sample ID: 180-164433-12**  
**Matrix: Water**

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium<br>226 + 228 | 0.888  |           | 0.371                       | 0.376                       | 5.00 | 0.500 | pCi/L |          | 12/04/23 22:20 | 1       |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# QC Sample Results

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-2

## Method: 9315 - Radium-226 (GFPC)

**Lab Sample ID: MB 160-634959/1-A**  
**Matrix: Water**  
**Analysis Batch: 639150**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 634959**

| Analyte    | MB     |              | Count           | Total           | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|--------------|-----------------|-----------------|------|-------|-------|----------------|----------------|---------|
|            | Result | MB Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) |      |       |       |                |                |         |
| Radium-226 | 0.1217 | U            | 0.105           | 0.106           | 1.00 | 0.161 | pCi/L | 11/02/23 09:53 | 12/01/23 20:12 | 1       |
| Carrier    | MB     |              | Limits          |                 |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | %Yield | MB Qualifier | 30 - 110        |                 |      |       |       | 11/02/23 09:53 | 12/01/23 20:12 | 1       |
|            | 99.3   |              |                 |                 |      |       |       |                |                |         |

**Lab Sample ID: LCS 160-634959/2-A**  
**Matrix: Water**  
**Analysis Batch: 639150**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 634959**

| Analyte    | Spike Added | LCS Result    | LCS Qual | Total           | RL   | MDC   | Unit  | %Rec | %Rec Limits |
|------------|-------------|---------------|----------|-----------------|------|-------|-------|------|-------------|
|            |             |               |          | Uncert. (2σ+/-) |      |       |       |      |             |
| Radium-226 | 11.3        | 10.87         |          | 1.17            | 1.00 | 0.142 | pCi/L | 96   | 75 - 125    |
| Carrier    | LCS         |               | Limits   |                 |      |       |       |      |             |
| Ba Carrier | %Yield      | LCS Qualifier | 30 - 110 |                 |      |       |       |      |             |
|            | 95.8        |               |          |                 |      |       |       |      |             |

**Lab Sample ID: MB 160-634966/1-A**  
**Matrix: Water**  
**Analysis Batch: 639150**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 634966**

| Analyte    | MB       |              | Count           | Total           | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|----------|--------------|-----------------|-----------------|------|-------|-------|----------------|----------------|---------|
|            | Result   | MB Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) |      |       |       |                |                |         |
| Radium-226 | -0.02396 | U            | 0.0626          | 0.0626          | 1.00 | 0.147 | pCi/L | 11/02/23 10:03 | 12/01/23 14:03 | 1       |
| Carrier    | MB       |              | Limits          |                 |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | %Yield   | MB Qualifier | 30 - 110        |                 |      |       |       | 11/02/23 10:03 | 12/01/23 14:03 | 1       |
|            | 103      |              |                 |                 |      |       |       |                |                |         |

**Lab Sample ID: LCS 160-634966/2-A**  
**Matrix: Water**  
**Analysis Batch: 639150**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 634966**

| Analyte    | Spike Added | LCS Result    | LCS Qual | Total           | RL   | MDC   | Unit  | %Rec | %Rec Limits |
|------------|-------------|---------------|----------|-----------------|------|-------|-------|------|-------------|
|            |             |               |          | Uncert. (2σ+/-) |      |       |       |      |             |
| Radium-226 | 11.3        | 10.18         |          | 1.16            | 1.00 | 0.205 | pCi/L | 90   | 75 - 125    |
| Carrier    | LCS         |               | Limits   |                 |      |       |       |      |             |
| Ba Carrier | %Yield      | LCS Qualifier | 30 - 110 |                 |      |       |       |      |             |
|            | 95.6        |               |          |                 |      |       |       |      |             |

## Method: 9320 - Radium-228 (GFPC)

**Lab Sample ID: MB 160-634965/1-A**  
**Matrix: Water**  
**Analysis Batch: 638362**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 634965**

| Analyte    | MB     |              | Count           | Total           | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|--------------|-----------------|-----------------|------|-------|-------|----------------|----------------|---------|
|            | Result | MB Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) |      |       |       |                |                |         |
| Radium-228 | 0.5855 |              | 0.322           | 0.326           | 1.00 | 0.449 | pCi/L | 11/02/23 10:00 | 11/27/23 16:01 | 1       |

Eurofins Pittsburgh

# QC Sample Results

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-2

## Method: 9320 - Radium-228 (GFPC) (Continued)

| Carrier    | MB<br>%Yield | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------|--------------|-----------------|----------|----------------|----------------|---------|
| Ba Carrier | 99.3         |                 | 30 - 110 | 11/02/23 10:00 | 11/27/23 16:01 | 1       |
| Y Carrier  | 84.5         |                 | 30 - 110 | 11/02/23 10:00 | 11/27/23 16:01 | 1       |

Lab Sample ID: LCS 160-634965/2-A  
Matrix: Water  
Analysis Batch: 638362

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 634965

| Analyte    | Spike<br>Added | LCS<br>Result | LCS<br>Qual | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | %Rec | %Rec<br>Limits |
|------------|----------------|---------------|-------------|-----------------------------|------|-------|-------|------|----------------|
| Radium-228 | 7.69           | 9.007         |             | 1.25                        | 1.00 | 0.604 | pCi/L | 117  | 75 - 125       |

| Carrier    | LCS<br>%Yield | LCS<br>Qualifier | Limits   |
|------------|---------------|------------------|----------|
| Ba Carrier | 95.8          |                  | 30 - 110 |
| Y Carrier  | 85.2          |                  | 30 - 110 |

Lab Sample ID: MB 160-634968/1-A  
Matrix: Water  
Analysis Batch: 638434

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 634968

| Analyte    | MB<br>Result | MB<br>Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------------|-----------------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.1637       | U               | 0.254                       | 0.254                       | 1.00 | 0.431 | pCi/L | 11/02/23 10:06 | 11/28/23 15:36 | 1       |

| Carrier    | MB<br>%Yield | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------|--------------|-----------------|----------|----------------|----------------|---------|
| Ba Carrier | 103          |                 | 30 - 110 | 11/02/23 10:06 | 11/28/23 15:36 | 1       |
| Y Carrier  | 86.7         |                 | 30 - 110 | 11/02/23 10:06 | 11/28/23 15:36 | 1       |

Lab Sample ID: LCS 160-634968/2-A  
Matrix: Water  
Analysis Batch: 638434

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 634968

| Analyte    | Spike<br>Added | LCS<br>Result | LCS<br>Qual | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | %Rec | %Rec<br>Limits |
|------------|----------------|---------------|-------------|-----------------------------|------|-------|-------|------|----------------|
| Radium-228 | 7.68           | 8.858         |             | 1.21                        | 1.00 | 0.467 | pCi/L | 115  | 75 - 125       |

| Carrier    | LCS<br>%Yield | LCS<br>Qualifier | Limits   |
|------------|---------------|------------------|----------|
| Ba Carrier | 95.6          |                  | 30 - 110 |
| Y Carrier  | 79.6          |                  | 30 - 110 |

# QC Association Summary

Client: Southern Company  
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-164433-2

## Rad

### Prep Batch: 634959

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method     | Prep Batch |
|--------------------|--------------------|-----------|--------|------------|------------|
| 180-164433-12      | DUP-02             | Total/NA  | Water  | PrecSep-21 |            |
| MB 160-634959/1-A  | Method Blank       | Total/NA  | Water  | PrecSep-21 |            |
| LCS 160-634959/2-A | Lab Control Sample | Total/NA  | Water  | PrecSep-21 |            |

### Prep Batch: 634965

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method    | Prep Batch |
|--------------------|--------------------|-----------|--------|-----------|------------|
| 180-164433-12      | DUP-02             | Total/NA  | Water  | PrecSep_0 |            |
| MB 160-634965/1-A  | Method Blank       | Total/NA  | Water  | PrecSep_0 |            |
| LCS 160-634965/2-A | Lab Control Sample | Total/NA  | Water  | PrecSep_0 |            |

### Prep Batch: 634966

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method     | Prep Batch |
|--------------------|--------------------|-----------|--------|------------|------------|
| 180-164433-1       | BAW-7              | Total/NA  | Water  | PrecSep-21 |            |
| 180-164433-2       | BAW-1              | Total/NA  | Water  | PrecSep-21 |            |
| 180-164433-3       | BAW-2A             | Total/NA  | Water  | PrecSep-21 |            |
| 180-164433-4       | BAW-8              | Total/NA  | Water  | PrecSep-21 |            |
| 180-164433-5       | BAW-9              | Total/NA  | Water  | PrecSep-21 |            |
| 180-164433-6       | EB-01              | Total/NA  | Water  | PrecSep-21 |            |
| 180-164433-7       | FB-01              | Total/NA  | Water  | PrecSep-21 |            |
| 180-164433-8       | DUP-01             | Total/NA  | Water  | PrecSep-21 |            |
| 180-164433-9       | BAW-3              | Total/NA  | Water  | PrecSep-21 |            |
| 180-164433-10      | BAW-4              | Total/NA  | Water  | PrecSep-21 |            |
| 180-164433-11      | BAW-5              | Total/NA  | Water  | PrecSep-21 |            |
| MB 160-634966/1-A  | Method Blank       | Total/NA  | Water  | PrecSep-21 |            |
| LCS 160-634966/2-A | Lab Control Sample | Total/NA  | Water  | PrecSep-21 |            |

### Prep Batch: 634968

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method    | Prep Batch |
|--------------------|--------------------|-----------|--------|-----------|------------|
| 180-164433-1       | BAW-7              | Total/NA  | Water  | PrecSep_0 |            |
| 180-164433-2       | BAW-1              | Total/NA  | Water  | PrecSep_0 |            |
| 180-164433-3       | BAW-2A             | Total/NA  | Water  | PrecSep_0 |            |
| 180-164433-4       | BAW-8              | Total/NA  | Water  | PrecSep_0 |            |
| 180-164433-5       | BAW-9              | Total/NA  | Water  | PrecSep_0 |            |
| 180-164433-6       | EB-01              | Total/NA  | Water  | PrecSep_0 |            |
| 180-164433-7       | FB-01              | Total/NA  | Water  | PrecSep_0 |            |
| 180-164433-8       | DUP-01             | Total/NA  | Water  | PrecSep_0 |            |
| 180-164433-9       | BAW-3              | Total/NA  | Water  | PrecSep_0 |            |
| 180-164433-10      | BAW-4              | Total/NA  | Water  | PrecSep_0 |            |
| 180-164433-11      | BAW-5              | Total/NA  | Water  | PrecSep_0 |            |
| MB 160-634968/1-A  | Method Blank       | Total/NA  | Water  | PrecSep_0 |            |
| LCS 160-634968/2-A | Lab Control Sample | Total/NA  | Water  | PrecSep_0 |            |

**Chain of Custody Record**

| <b>Client Information</b>   |                 | Sampler: <i>Frank</i>            |                                 | Lab PM  |                                   |                            |                                  |                                 |   |                                   |                            |                                  |                        |                                 |                        |                            |                    |                        |        |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |
|---|-----------------|----------------------------------|---------------------------------|---|-----------------------------------|----------------------------|----------------------------------|---------------------------------|---|-----------------------------------|----------------------------|----------------------------------|------------------------|---------------------------------|------------------------|----------------------------|--------------------|------------------------|--------|--------------|-----------------|-------------|----------|--------------|-----------|----------|----------|----------|----------|----------|----------|--|--|--|--------------|-----------------|-------------|----------|--------------|-----------|----------|----------|----------|----------|----------|----------|--|--|--|---------------|-----------------|-------------|----------|--------------|-----------|----------|----------|----------|----------|----------|----------|--|--|--|--------------|-----------------|-------------|----------|--------------|-----------|----------|----------|----------|----------|----------|----------|--|--|--|--------------|-----------------|-------------|----------|--------------|-----------|----------|----------|----------|----------|----------|----------|--|--|--|--------------|-----------------|-------------|----------|--------------|-----------|----------|----------|----------|----------|----------|----------|--|--|--|--------------|-----------------|-------------|----------|--------------|-----------|----------|----------|----------|----------|----------|----------|--|--|--|---------------|-----------------|-------------|----------|--------------|-----------|----------|----------|----------|----------|----------|----------|--|--|--|--------------|-----------------|-------------|----------|--------------|-----------|----------|----------|----------|----------|----------|----------|--|--|--|--------------|-----------------|-------------|----------|--------------|-----------|----------|----------|----------|----------|----------|----------|--|--|--|--------------|-----------------|-------------|----------|--------------|-----------|----------|----------|----------|----------|----------|----------|--|--|--|
| Client Contact:   |                 | <i>Agendasw / Voreis</i>         |                                 | Brown, Shall  |                                   |                            |                                  |                                 |   |                                   |                            |                                  |                        |                                 |                        |                            |                    |                        |        |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |
| SCS Contacts  |                 | Phone: <i>850-336-7492</i>       |                                 | E-Mail  |                                   |                            |                                  |                                 |   |                                   |                            |                                  |                        |                                 |                        |                            |                    |                        |        |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |
| Company:  |                 | SCS                              |                                 | shall.brown@eurofinset.com                                  |                                   |                            |                                  |                                 |   |                                   |                            |                                  |                        |                                 |                        |                            |                    |                        |        |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |
| Address   |                 | 3535 Colonnade Pkwy Bin S 530 EC |                                 |   |                                   |                            |                                  |                                 |   |                                   |                            |                                  |                        |                                 |                        |                            |                    |                        |        |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |
| City  |                 | Birmingham                       |                                 |   |                                   |                            |                                  |                                 |   |                                   |                            |                                  |                        |                                 |                        |                            |                    |                        |        |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |
| State, Zip  |                 | Alabama                          |                                 |   |                                   |                            |                                  |                                 |   |                                   |                            |                                  |                        |                                 |                        |                            |                    |                        |        |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |
| Phone   |                 | 205 992 6283                     |                                 |   |                                   |                            |                                  |                                 |   |                                   |                            |                                  |                        |                                 |                        |                            |                    |                        |        |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |
| Email   |                 |                                  |                                 |   |                                   |                            |                                  |                                 |   |                                   |                            |                                  |                        |                                 |                        |                            |                    |                        |        |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |
| SCS Contacts  |                 |                                  |                                 |   |                                   |                            |                                  |                                 |   |                                   |                            |                                  |                        |                                 |                        |                            |                    |                        |        |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |
| Project Name  |                 | Daniel Ash Pond B CCR            |                                 |   |                                   |                            |                                  |                                 |   |                                   |                            |                                  |                        |                                 |                        |                            |                    |                        |        |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |
| Site  |                 | 18020047                         |                                 |   |                                   |                            |                                  |                                 |   |                                   |                            |                                  |                        |                                 |                        |                            |                    |                        |        |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |
| SSOW#:  |                 |                                  |                                 |   |                                   |                            |                                  |                                 |   |                                   |                            |                                  |                        |                                 |                        |                            |                    |                        |        |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |
| Due Date Requested:   |                 |                                  |                                 |   |                                   |                            |                                  |                                 |   |                                   |                            |                                  |                        |                                 |                        |                            |                    |                        |        |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |
| TAT Requested (days):   |                 |                                  |                                 |   |                                   |                            |                                  |                                 |   |                                   |                            |                                  |                        |                                 |                        |                            |                    |                        |        |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |
| PO #:   |                 |                                  |                                 |   |                                   |                            |                                  |                                 |   |                                   |                            |                                  |                        |                                 |                        |                            |                    |                        |        |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |
| WO #:   |                 |                                  |                                 |   |                                   |                            |                                  |                                 |   |                                   |                            |                                  |                        |                                 |                        |                            |                    |                        |        |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |
| Project #:  |                 | 18020047                         |                                 |   |                                   |                            |                                  |                                 |   |                                   |                            |                                  |                        |                                 |                        |                            |                    |                        |        |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |
| SSOW#:  |                 |                                  |                                 |   |                                   |                            |                                  |                                 |   |                                   |                            |                                  |                        |                                 |                        |                            |                    |                        |        |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |
| <table border="1"> <thead> <tr> <th>Sample Identification</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type<br/>(C=Comp, G=grab)</th> <th>Matrix<br/>(W=water, S=solid, O=waste/oil, BT=Trace, As=Air)</th> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>6020B Custom (14 App III and IV)</th> <th>7470 Mercury</th> <th>90656 Chloride Fluoride Sulfate</th> <th>Total Dissolved Solids</th> <th>Ra 226 Ra 228 and Combined</th> <th>Analysis Requested</th> <th>Carrier Tracking No(s)</th> <th>Lab PM</th> </tr> </thead> <tbody> <tr> <td><i>BAW-7</i></td> <td><i>10-24-23</i></td> <td><i>1120</i></td> <td><i>G</i></td> <td><i>water</i></td> <td><i>NO</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td></td> <td></td> <td></td> </tr> <tr> <td><i>BAW-1</i></td> <td><i>10-24-23</i></td> <td><i>1725</i></td> <td><i>G</i></td> <td><i>water</i></td> <td><i>NO</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td></td> <td></td> <td></td> </tr> <tr> <td><i>BAW-2A</i></td> <td><i>10-24-23</i></td> <td><i>1401</i></td> <td><i>G</i></td> <td><i>water</i></td> <td><i>NO</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td></td> <td></td> <td></td> </tr> <tr> <td><i>BAW-8</i></td> <td><i>10-24-23</i></td> <td><i>1635</i></td> <td><i>G</i></td> <td><i>water</i></td> <td><i>NO</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td></td> <td></td> <td></td> </tr> <tr> <td><i>BAW-9</i></td> <td><i>10-24-23</i></td> <td><i>1830</i></td> <td><i>G</i></td> <td><i>water</i></td> <td><i>NO</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td></td> <td></td> <td></td> </tr> <tr> <td><i>EB-01</i></td> <td><i>10-24-23</i></td> <td><i>1507</i></td> <td><i>G</i></td> <td><i>water</i></td> <td><i>NO</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td></td> <td></td> <td></td> </tr> <tr> <td><i>EB-01</i></td> <td><i>10-24-23</i></td> <td><i>1525</i></td> <td><i>G</i></td> <td><i>water</i></td> <td><i>NO</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td></td> <td></td> <td></td> </tr> <tr> <td><i>DUP-01</i></td> <td><i>10-24-23</i></td> <td><i>1301</i></td> <td><i>G</i></td> <td><i>water</i></td> <td><i>NO</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td></td> <td></td> <td></td> </tr> <tr> <td><i>BAW-3</i></td> <td><i>10-25-23</i></td> <td><i>0949</i></td> <td><i>G</i></td> <td><i>water</i></td> <td><i>NO</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td></td> <td></td> <td></td> </tr> <tr> <td><i>BAW-4</i></td> <td><i>10-25-23</i></td> <td><i>1235</i></td> <td><i>G</i></td> <td><i>water</i></td> <td><i>NO</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td></td> <td></td> <td></td> </tr> <tr> <td><i>BAW-5</i></td> <td><i>10-25-23</i></td> <td><i>1405</i></td> <td><i>G</i></td> <td><i>water</i></td> <td><i>NO</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> |                 |                                  |                                 |   | Sample Identification             | Sample Date                | Sample Time                      | Sample Type<br>(C=Comp, G=grab) | Matrix<br>(W=water, S=solid, O=waste/oil, BT=Trace, As=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 6020B Custom (14 App III and IV) | 7470 Mercury           | 90656 Chloride Fluoride Sulfate | Total Dissolved Solids | Ra 226 Ra 228 and Combined | Analysis Requested | Carrier Tracking No(s) | Lab PM | <i>BAW-7</i> | <i>10-24-23</i> | <i>1120</i> | <i>G</i> | <i>water</i> | <i>NO</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> |  |  |  | <i>BAW-1</i> | <i>10-24-23</i> | <i>1725</i> | <i>G</i> | <i>water</i> | <i>NO</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> |  |  |  | <i>BAW-2A</i> | <i>10-24-23</i> | <i>1401</i> | <i>G</i> | <i>water</i> | <i>NO</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> |  |  |  | <i>BAW-8</i> | <i>10-24-23</i> | <i>1635</i> | <i>G</i> | <i>water</i> | <i>NO</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> |  |  |  | <i>BAW-9</i> | <i>10-24-23</i> | <i>1830</i> | <i>G</i> | <i>water</i> | <i>NO</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> |  |  |  | <i>EB-01</i> | <i>10-24-23</i> | <i>1507</i> | <i>G</i> | <i>water</i> | <i>NO</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> |  |  |  | <i>EB-01</i> | <i>10-24-23</i> | <i>1525</i> | <i>G</i> | <i>water</i> | <i>NO</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> |  |  |  | <i>DUP-01</i> | <i>10-24-23</i> | <i>1301</i> | <i>G</i> | <i>water</i> | <i>NO</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> |  |  |  | <i>BAW-3</i> | <i>10-25-23</i> | <i>0949</i> | <i>G</i> | <i>water</i> | <i>NO</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> |  |  |  | <i>BAW-4</i> | <i>10-25-23</i> | <i>1235</i> | <i>G</i> | <i>water</i> | <i>NO</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> |  |  |  | <i>BAW-5</i> | <i>10-25-23</i> | <i>1405</i> | <i>G</i> | <i>water</i> | <i>NO</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> |  |  |  |
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| <i>BAW-7</i>  | <i>10-24-23</i> | <i>1120</i>                      | <i>G</i>                        | <i>water</i>  | <i>NO</i>                         | <i>X</i>                   | <i>X</i>                         | <i>X</i>                        | <i>X</i>  | <i>X</i>                          | <i>X</i>                   |                                  |                        |                                 |                        |                            |                    |                        |        |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |
| <i>BAW-1</i>  | <i>10-24-23</i> | <i>1725</i>                      | <i>G</i>                        | <i>water</i>  | <i>NO</i>                         | <i>X</i>                   | <i>X</i>                         | <i>X</i>                        | <i>X</i>  | <i>X</i>                          | <i>X</i>                   |                                  |                        |                                 |                        |                            |                    |                        |        |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |
| <i>BAW-2A</i>   | <i>10-24-23</i> | <i>1401</i>                      | <i>G</i>                        | <i>water</i>  | <i>NO</i>                         | <i>X</i>                   | <i>X</i>                         | <i>X</i>                        | <i>X</i>  | <i>X</i>                          | <i>X</i>                   |                                  |                        |                                 |                        |                            |                    |                        |        |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |
| <i>BAW-8</i>  | <i>10-24-23</i> | <i>1635</i>                      | <i>G</i>                        | <i>water</i>  | <i>NO</i>                         | <i>X</i>                   | <i>X</i>                         | <i>X</i>                        | <i>X</i>  | <i>X</i>                          | <i>X</i>                   |                                  |                        |                                 |                        |                            |                    |                        |        |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |
| <i>BAW-9</i>  | <i>10-24-23</i> | <i>1830</i>                      | <i>G</i>                        | <i>water</i>  | <i>NO</i>                         | <i>X</i>                   | <i>X</i>                         | <i>X</i>                        | <i>X</i>  | <i>X</i>                          | <i>X</i>                   |                                  |                        |                                 |                        |                            |                    |                        |        |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |
| <i>EB-01</i>  | <i>10-24-23</i> | <i>1507</i>                      | <i>G</i>                        | <i>water</i>  | <i>NO</i>                         | <i>X</i>                   | <i>X</i>                         | <i>X</i>                        | <i>X</i>  | <i>X</i>                          | <i>X</i>                   |                                  |                        |                                 |                        |                            |                    |                        |        |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |
| <i>EB-01</i>  | <i>10-24-23</i> | <i>1525</i>                      | <i>G</i>                        | <i>water</i>  | <i>NO</i>                         | <i>X</i>                   | <i>X</i>                         | <i>X</i>                        | <i>X</i>  | <i>X</i>                          | <i>X</i>                   |                                  |                        |                                 |                        |                            |                    |                        |        |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |
| <i>DUP-01</i>   | <i>10-24-23</i> | <i>1301</i>                      | <i>G</i>                        | <i>water</i>  | <i>NO</i>                         | <i>X</i>                   | <i>X</i>                         | <i>X</i>                        | <i>X</i>  | <i>X</i>                          | <i>X</i>                   |                                  |                        |                                 |                        |                            |                    |                        |        |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |
| <i>BAW-3</i>  | <i>10-25-23</i> | <i>0949</i>                      | <i>G</i>                        | <i>water</i>  | <i>NO</i>                         | <i>X</i>                   | <i>X</i>                         | <i>X</i>                        | <i>X</i>  | <i>X</i>                          | <i>X</i>                   |                                  |                        |                                 |                        |                            |                    |                        |        |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |
| <i>BAW-4</i>  | <i>10-25-23</i> | <i>1235</i>                      | <i>G</i>                        | <i>water</i>  | <i>NO</i>                         | <i>X</i>                   | <i>X</i>                         | <i>X</i>                        | <i>X</i>  | <i>X</i>                          | <i>X</i>                   |                                  |                        |                                 |                        |                            |                    |                        |        |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |
| <i>BAW-5</i>  | <i>10-25-23</i> | <i>1405</i>                      | <i>G</i>                        | <i>water</i>  | <i>NO</i>                         | <i>X</i>                   | <i>X</i>                         | <i>X</i>                        | <i>X</i>  | <i>X</i>                          | <i>X</i>                   |                                  |                        |                                 |                        |                            |                    |                        |        |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |
| Possible Hazard Identification<br><input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological<br>Deliverable Requested I, II, III, IV, Other (specify)   |                 |                                  |                                 |   |                                   |                            |                                  |                                 |   |                                   |                            |                                  |                        |                                 |                        |                            |                    |                        |        |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |
| Empty Kit Relinquished by _____ Date _____ Time _____ Method of Shipment: _____<br>Relinquished by <i>Todd Voreis</i> Date/Time <i>25 Oct 23 1547</i> Company <i>RTH BAW</i> Received by _____ Date/Time _____ Company _____<br>Relinquished by _____ Date/Time _____ Company _____ Received by _____ Date/Time _____ Company _____<br>Relinquished by _____ Date/Time _____ Company _____ Received by _____ Date/Time _____ Company _____<br>Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: _____  |                 |                                  |                                 |   |                                   |                            |                                  |                                 |   |                                   |                            |                                  |                        |                                 |                        |                            |                    |                        |        |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |               |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |              |                 |             |          |              |           |          |          |          |          |          |          |  |  |  |

180-164433 Chain of Custody

**Chain of Custody Record**

|   |  |   |  |
|---|--|---|--|
| <b>Client Information</b><br>Client Contact: SCS Contacts<br>Company: SCS<br>Address: 3535 Colonnade Pkwy Bin S 530 EC<br>City: Birmingham<br>State, Zip: Alabama<br>Phone: 205 992 6283<br>Email: SCS Contacts<br>Project Name: Daniel Ash Pond B CCR<br>Site:   |  | Lab PM: Brown, Shall<br>E-Mail: shall.brown@eurofinset.com<br>Phone: 850-336-0492<br>Fax: 850-336-0492<br>Carrier Tracking No(s):<br>Job #: 2023                        |  |
| Due Date Requested:<br>TAT Requested (days):<br>PO #:<br>WO #:<br>Project #: 18020047<br>SOW#:  |  | <b>Analysis Requested</b><br>Ra 226 Ra 228 and Combined<br>Total Dissolved Solids<br>9656 Chloride Fluoride Sulfate<br>7470 Mercury<br>6020B Custom 14 (App III and IV) |  |
| Sample Identification<br>DUP-02<br>Sample Date: 10-23-23 0849<br>Sample Time: 6-<br>Matrix: water ND<br>Sample Type (C=comp, G=grab):<br>Preservation Code:   |  | Field Filtered Sample (Yes or No)<br>Perform MS/MSD (Yes or No)<br>Total Number of Containers: 3<br>Special Instructions/Note:  |  |
| Preservation Codes:<br>A - HCL<br>B - NaOH<br>C - Zn Acetate<br>D - Nitric Acid<br>E - NaHSO4<br>F - MeOH<br>G - Amchlor<br>H - Ascorbic Acid<br>I - Ice<br>J - DI Water<br>K - EDTA<br>L - EDA<br>Other:<br>M - Hexane<br>N - None<br>O - As/NaO2<br>P - Na2O4S<br>Q - Na2SO3<br>R - Na2S2O3<br>S - H2SO4<br>T - TSP Dodecahydrate<br>U - Acetone<br>V - MCAA<br>W - pH 4.5<br>Z - other (specify) |  |   |  |
| Possible Hazard Identification<br><input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological<br>Deliverable Requested 1, II, III, IV, Other (specify)   |  |   |  |
| Empty Kit Relinquished by<br>Relinquished by: Todd Voreis<br>Relinquished by:<br>Relinquished by:   |  |   |  |
| Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)<br><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months<br>Special Instructions/QC Requirements   |  |   |  |
| Date/Time: 25 OCT 23 / 1547<br>Date/Time:<br>Date/Time:   |  | Date/Time: 10-26-23 1030<br>Date/Time:<br>Date/Time:  |  |
| Company: RDT BSW<br>Company:<br>Company:  |  | Company: BSA<br>Company:<br>Company:  |  |
| Cooler Temperature(s) °C and Other Remarks:   |  |   |  |



Do not lift using this tag.

ORIGIN ID: BIXA (402) 517-0342  
TODD VOREIS  
TESTAMERICA PITTSBURGH LAB  
SEE CHEERS 5 BEFORE BILL  
301 ALPHA DR  
PITTSBURGH, PA 15238  
UNITED STATES US

SHIP DATE: 25OCT23  
ACTWGT: 66.25 LB  
CAD: 6993600/SSFE2441  
DIMS: 24X19X15 IN  
BILL THIRD PARTY

TO **TODD VOREIS**  
**TESTAMERICA PITTSBURGH LAB**  
**SEE CHEERS 5 BEFORE BILL**  
**301 ALPHA DR**  
**PITTSBURGH PA 15238**

(402) 517-0842  
REF: 1



Uncorrected temp 3.3 °C  
Thermometer ID 21

CF 0.6 Initials WK

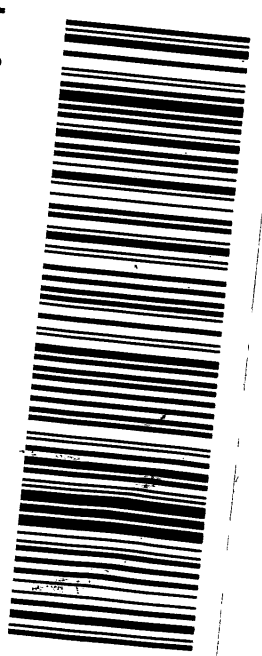
PT-WI-SR-001 effective 11/8/18



THU - 26 OCT 10:30A  
PRIORITY OVERNIGHT  
AHS 15238  
PA-US PIT

3 of 4  
MPS# 55 4126 2289  
Metr# 55 4126 2256

**XS AGCA**



Part # 156297439 PROBES EXP 05/24

ORIGIN ID: BIXA (402) 517-0342  
TODD VOREIS  
TESTAMERICA PITTSBURGH LAB  
SEE CHEERS 5 BEFORE BILL  
301 ALPHA DR  
PITTSBURGH, PA 15238  
UNITED STATES US

TO **TODD VOREIS**  
**TESTAMERICA PITTSBURGH LAB**  
**SEE CHEERS 5 BEFORE BILL**  
**301 ALPHA DR**  
**PITTSBURGH PA 15238**

(402) 517-0842  
REF: 1



Uncorrected temp 1.6 °C  
Thermometer ID 21

CF 0.6 Initials WK

PT-WI-SR-001 effective 11/8/18



THU - 26 OCT 10:30A  
PRIORITY OVERNIGHT  
AHS 15238  
PA-US PIT

3 of 4  
MPS# 7855 4126 2278  
Metr# 7855 4126 2256

**XS AGCA**



180-164433 Waybill





Part # 166297498 RRB92-EXP 05/24

SHIP DATE: 25OCT23  
ACTWGT: 66.45 LB  
CAD: 6993800/SSFE2441  
DIMS: 24x19x15 IN  
BILL THIRD PARTY

SHIP ID: B1XA (402) 517-0342  
TODD VOREIS  
TESTAMERICA PITTSBURGH LAB  
SEE CHEERS 5 BEFORE BILL  
301 ALPHA DR  
PITTSBURGH, PA 15238  
UNITED STATES US

**TODD VOREIS**  
**TESTAMERICA PITTSBURGH LAB**  
**SEE CHEERS 5 BEFORE BILL**  
**301 ALPHA DR**  
**PITTSBURGH PA 15238**

REF: (402) 517-0342

DEPT: \_\_\_\_\_



Uncorrected temp 19 °C  
Thermometer ID 21  
CF Ab Initials Wk

PT-WI-SR-001 effective 11/8/18

FedEx Express 

J234023101501

THU - 26 OCT 10:30A  
PRIORITY OVERNIGHT  
AHS 15238  
PIT

1 of 4  
MPS# 7855 4126 2256  
Met# MASTER ##

**XS AGCA**




PA-US

ORIGIN ID: B1XA (402) 517-0342  
TODD VOREIS  
TESTAMERICA PITTSBURGH LAB  
SEE CHEERS 5 BEFORE BILL  
301 ALPHA DR  
PITTSBURGH, PA 15238  
UNITED STATES US

**TODD VOREIS**  
**TESTAMERICA PITTSBURGH LAB**  
**SEE CHEERS 5 BEFORE BILL**  
**301 ALPHA DR**  
**PITTSBURGH PA 15238**

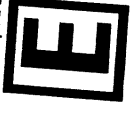
REF: (402) 517-0342

DEPT: \_\_\_\_\_



Uncorrected temp 20 °C  
Thermometer ID 21  
CF Ab Initials Wk

PT-WI-SR-001 effective 11/8/18

FedEx Express 

J234023101501

THU - 26 OCT 10:30A  
PRIORITY OVERNIGHT  
AHS 15238  
PIT

2 of 4  
MPS# 7855 4126 2267  
Met# 7855 4126 2256

**XS AGCA**



PA-US

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# Chain of Custody Record



|  |                                  |   |                              |  |                                   |                            |  |                                 |                 |                            |  |
|--|----------------------------------|---|------------------------------|--|-----------------------------------|----------------------------|--|---------------------------------|-----------------|----------------------------|--|
| <b>Client Information (Sub Contract Lab)</b>   |                                  | Sampler:  | Lab PM:                      | Carrier Tracking No(s):                                  |                                   | COC No:                    |  |                                 |                 |                            |  |
| Client Contact:<br>Shipping/Receiving  |                                  | Phone   | Brown, Shali                 | State of Origin:<br>Mississippi                          |                                   | 180-498545.1               |  |                                 |                 |                            |  |
| Company:<br>TestAmerica Laboratories, Inc.   |                                  | E-Mail:<br>Shali.Brown@eurofins.com   | Shali.Brown@eurofins.com     | Page 1 of 2  |                                   | Page                       |  |                                 |                 |                            |  |
| Address:<br>13715 Rider Trail North,   |                                  | Accreditations Required (See note)  | Job #:                       |  | 180-164433-2                      |                            |  |                                 |                 |                            |  |
| City:<br>Earth City  | Due Date Requested:<br>12/4/2023 | <b>Analysis Requested</b>   |                              |  |                                   |                            |  |                                 |                 |                            |  |
| State Zip:<br>MO, 63045  | TAT Requested (days):            |   |                              |  |                                   |                            |  |                                 |                 |                            |  |
| Phone:<br>314-298-8566(Tel) 314-298-8757(Fax)  | PO #:                            | <b>Preservation Codes:</b><br>A - HCL<br>B - NaOH<br>C - Zn Acetate<br>D - Nitric Acid<br>E - NaHSO4<br>F - MeOH<br>G - Amchlor<br>H - Ascorbic Acid<br>I - Ice<br>J - DI Water<br>K - EDTA<br>L - EDA<br>Other:<br>M - Hexane<br>N - None<br>O - AsNaO2<br>P - Na2O4S<br>Q - Na2SO3<br>R - Na2S2O3<br>S - H2SO4<br>T - TSP Dodecahydrate<br>U - Acetone<br>V - MCAA<br>W - pH 4-5<br>Y - Trizma<br>Z - other (specify) |                              |  |                                   |                            |  |                                 |                 |                            |  |
| Email:   | WO #:                            |   |                              |  |                                   |                            |  |                                 |                 |                            |  |
| Project Name:<br>Plant Daniel Ash Pond B CCR   | Project #:<br>18020047           | <b>Special Instructions/Note:</b>   |                              |  |                                   |                            |  |                                 |                 |                            |  |
| Site:<br>SSOW#   | SSOW#                            |   |                              |  |                                   |                            |  |                                 |                 |                            |  |
| <b>Sample Identification - Client ID (Lab ID)</b>  |                                  |   |                              |  |                                   |                            |  |                                 |                 |                            |  |
| Sample ID  | Sample Date                      | Sample Time   | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=wastewat, ST=stissus, A=air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 9320_Ra226/PreSep_0 Standard Target List | 9315_Ra226/PreSep_21 Radium 226 | Ra226Ra228_GFPc | Total Number of containers |  |
| BAW-7 (180-164433-1)   | 10/24/23                         | 11:20 Central   | Water                        | Water  | X                                 | X                          | X  | X                               | X               | 2                          |  |
| BAW-1 (180-164433-2)   | 10/24/23                         | 12:25 Central   | Water                        | Water  | X                                 | X                          | X  | X                               | X               | 2                          |  |
| BAW-2A (180-164433-3)  | 10/24/23                         | 14:01 Central   | Water                        | Water  | X                                 | X                          | X  | X                               | X               | 2                          |  |
| BAW-8 (180-164433-4)   | 10/24/23                         | 16:35 Central   | Water                        | Water  | X                                 | X                          | X  | X                               | X               | 2                          |  |
| BAW-9 (180-164433-5)   | 10/24/23                         | 18:30 Central   | Water                        | Water  | X                                 | X                          | X  | X                               | X               | 2                          |  |
| EB-01 (180-164433-6)   | 10/24/23                         | 15:07 Central   | Water                        | Water  | X                                 | X                          | X  | X                               | X               | 2                          |  |
| FB-01 (180-164433-7)   | 10/24/23                         | 15:25 Central   | Water                        | Water  | X                                 | X                          | X  | X                               | X               | 2                          |  |
| DUP-01 (180-164433-8)  | 10/24/23                         | 13:01 Central   | Water                        | Water  | X                                 | X                          | X  | X                               | X               | 2                          |  |
| BAW-3 (180-164433-9)   | 10/25/23                         | 09:49 Central   | Water                        | Water  | X                                 | X                          | X  | X                               | X               | 2                          |  |
| <p>Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte &amp; accreditation compliance upon our subcontractor laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.</p> |                                  |   |                              |  |                                   |                            |  |                                 |                 |                            |  |
| <b>Possible Hazard Identification</b>  |                                  |   |                              |  |                                   |                            |  |                                 |                 |                            |  |
| Unconfirmed  |                                  |   |                              |  |                                   |                            |  |                                 |                 |                            |  |
| Deliverable Requested: I, II, III, IV, Other (specify)   |                                  |   |                              |  |                                   |                            |  |                                 |                 |                            |  |
| Primary Deliverable Rank: 2  |                                  |   |                              |  |                                   |                            |  |                                 |                 |                            |  |
| Empty Kit Relinquished by:   |                                  |   |                              |  |                                   |                            |  |                                 |                 |                            |  |
| Date:  |                                  |   |                              |  |                                   |                            |  |                                 |                 |                            |  |
| Relinquished by: <i>[Signature]</i>  |                                  |   |                              |  |                                   |                            |  |                                 |                 |                            |  |
| Date/Time: 10/30/23 1000   |                                  |   |                              |  |                                   |                            |  |                                 |                 |                            |  |
| Relinquished by: <i>[Signature]</i>  |                                  |   |                              |  |                                   |                            |  |                                 |                 |                            |  |
| Date/Time: 10/31/23 0910   |                                  |   |                              |  |                                   |                            |  |                                 |                 |                            |  |
| Relinquished by: <i>[Signature]</i>  |                                  |   |                              |  |                                   |                            |  |                                 |                 |                            |  |
| Date/Time: 10/31/23 0910   |                                  |   |                              |  |                                   |                            |  |                                 |                 |                            |  |
| Relinquished by: <i>[Signature]</i>  |                                  |   |                              |  |                                   |                            |  |                                 |                 |                            |  |
| Date/Time: 10/31/23 0910   |                                  |   |                              |  |                                   |                            |  |                                 |                 |                            |  |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No   |                                  |   |                              |  |                                   |                            |  |                                 |                 |                            |  |
| Custody Seal No.:  |                                  |   |                              |  |                                   |                            |  |                                 |                 |                            |  |
| Cooler Temperature(s) °C and Other Remarks:  |                                  |   |                              |  |                                   |                            |  |                                 |                 |                            |  |
| Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)<br><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months<br>Special Instructions/QC Requirements:   |                                  |   |                              |  |                                   |                            |  |                                 |                 |                            |  |
| Method of Shipment:  |                                  |   |                              |  |                                   |                            |  |                                 |                 |                            |  |
| Date/Time: 10/31/23 0910   |                                  |   |                              |  |                                   |                            |  |                                 |                 |                            |  |
| Date/Time: 10/31/23 0910   |                                  |   |                              |  |                                   |                            |  |                                 |                 |                            |  |
| Date/Time: 10/31/23 0910   |                                  |   |                              |  |                                   |                            |  |                                 |                 |                            |  |
| Company: <i>[Signature]</i>  |                                  |   |                              |  |                                   |                            |  |                                 |                 |                            |  |
| Company: <i>[Signature]</i>  |                                  |   |                              |  |                                   |                            |  |                                 |                 |                            |  |
| Company: <i>[Signature]</i>  |                                  |   |                              |  |                                   |                            |  |                                 |                 |                            |  |



# Chain of Custody Record



Environment Testing

| <b>Client Information (Sub Contract Lab)</b>   |  | Lab PM: Brown, Shelli               |               | Carrier Tracking No(s): 180-498545.2  |   |  |                            |  |                                 |                |
|--|--|-------------------------------------|---------------|---|---|--|----------------------------|--|---------------------------------|----------------|
| Client Contact: Shipping/Receiving   |  | E-Mail: Shelli.Brown@eurofins.com   |               | Page: Page 2 of 2   |   |  |                            |  |                                 |                |
| Company: TestAmerica Laboratories, Inc.  |  | Accreditations Required (See note): |               | Job #: 180-164433-2   |   |  |                            |  |                                 |                |
| Address: 13715 Rider Trail North,  |  | Due Date Requested: 12/4/2023       |               | Preservation Codes:<br>M - Hexane<br>N - None<br>O - AsNaO2<br>P - Na2O4S<br>Q - Na2SO3<br>R - Na2SO4<br>S - H2SO4<br>T - TSP Dodecahydrate<br>U - Acetone<br>V - MCAA<br>W - pH 4-5<br>Y - Trizma<br>Z - other (specify) |   |  |                            |  |                                 |                |
| City: Earth City   |  | TAT Requested (days):               |               | A - HCL<br>B - NaOH<br>C - Zn Acetate<br>D - Nitric Acid<br>E - NaHSO4<br>F - MeOH<br>G - Amchlor<br>H - Ascorbic Acid<br>I - Ice<br>J - DI Water<br>K - EDTA<br>L - EDA<br>Other:  |   |  |                            |  |                                 |                |
| State, Zip: MO, 63045  |  | FO #:                               |               | Total Number of containers  |   |  |                            |  |                                 |                |
| Phone: 314-298-8566(Tel) 314-298-8757(Fax)   |  | WO #:                               |               | Special Instructions/Note:  |   |  |                            |  |                                 |                |
| Email:   |  | Project #:                          |               |   |   |  |                            |  |                                 |                |
| Plant Name: Daniel Ash Pond B CCR  |  | SSOW#:                              |               |   |   |  |                            |  |                                 |                |
| Site:  |  |                                     |               |   |   |  |                            |  |                                 |                |
| Sample Identification - Client ID (Lab ID)   |  | Sample Date                         | Sample Time   | Sample Type (C=Comp, G=grab)  | Matrix (W=water, S=solid, O=soil, BT=Tissue, AAU) | Field Filtered Sample (Yes or No)  | Perform MS/MSD (Yes or No) | 9320_Ra228/PreSep_0 Standard Target List | 9315_Ra226/PreSep_21 Radium 226 | Ra226Ra228_GFP |
| BAW-4 (180-164433-10)  |  | 10/25/23                            | 12:35 Central | Water   | Water   | X  | X                          | X  | X                               | X              |
| BAW-5 (180-164433-11)  |  | 10/25/23                            | 14:05 Central | Water   | Water   | X  | X                          | X  | X                               | X              |
| DUP-02 (180-164433-12)   |  | 10/25/23                            | 08:49 Central | Water   | Water   | X  | X                          | X  | X                               | X              |
| <p>Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte &amp; accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.</p> |  |                                     |               |   |   |  |                            |  |                                 |                |
| <b>Possible Hazard Identification</b>  |  |                                     |               |   |   | <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months |                            |  |                                 |                |
| Unconfirmed  |  |                                     |               |   |   | Special Instructions/QC Requirements:  |                            |  |                                 |                |
| Deliverable Requested: I, II, III, IV, Other (specify)   |  |                                     |               |   |   | Primary Deliverable Rank: 2  |                            |  |                                 |                |
| Empty Kit Relinquished by:   |  |                                     |               |   |   | Method of Shipment:  |                            |  |                                 |                |
| Relinquished by: <i>Slynn</i>  |  |                                     |               |   |   | Date/Time: 10/30/23 1600   |                            |  |                                 |                |
| Relinquished by: <i>Slynn</i>  |  |                                     |               |   |   | Date/Time: 10/30/23 1600   |                            |  |                                 |                |
| Relinquished by:   |  |                                     |               |   |   | Date/Time:   |                            |  |                                 |                |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No   |  |                                     |               |   |   | Custody Seal No.:  |                            |  |                                 |                |
| Company: EPITIME   |  |                                     |               |   |   | Received by: <i>Jayme Analt</i>  |                            |  |                                 |                |
| Company:   |  |                                     |               |   |   | Date/Time: 10/31/23 910  |                            |  |                                 |                |
| Company:   |  |                                     |               |   |   | Date/Time:   |                            |  |                                 |                |
| Cooler Temperature(s) °C and Other Remarks:  |  |                                     |               |   |   |  |                            |  |                                 |                |



# Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-164433-2

**Login Number: 164433**

**List Source: Eurofins Pittsburgh**

**List Number: 1**

**Creator: Abernathy, Eric L**

| Question   | Answer | Comment   |
|--|--------|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A    |   |
| The cooler's custody seal, if present, is intact.                                | True   |   |
| Sample custody seals, if present, are intact.                                    | True   |   |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |   |
| Samples were received on ice.  | True   |   |
| Cooler Temperature is acceptable.  | True   |   |
| Cooler Temperature is recorded.  | True   |   |
| COC is present.  | True   |   |
| COC is filled out in ink and legible.  | True   |   |
| COC is filled out with all pertinent information.                                | True   |   |
| Is the Field Sampler's name present on COC?                                      | True   |   |
| There are no discrepancies between the containers received and the COC.          | False  |   |
| Samples are received within Holding Time (excluding tests with immediate HTs)    | True   |   |
| Sample containers have legible labels.   | True   |   |
| Containers are not broken or leaking.  | True   |   |
| Sample collection date/times are provided.                                       | True   |   |
| Appropriate sample containers are used.  | True   |   |
| Sample bottles are completely filled.  | True   |   |
| Sample Preservation Verified.  | True   |   |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |   |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | True   |   |
| Multiphasic samples are not present.   | True   |   |
| Samples do not require splitting or compositing.                                 | False  | Sample splitting required for subcontract purposes. |
| Residual Chlorine Checked.   | N/A    |   |



# Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-164433-2

**Login Number: 164433**

**List Number: 3**

**Creator: Worthington, Sierra M**

**List Source: Eurofins St. Louis**

**List Creation: 10/31/23 01:21 PM**

| Question   | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | True   |         |
| The cooler's custody seal, if present, is intact.                                | True   |         |
| Sample custody seals, if present, are intact.                                    | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |         |
| Samples were received on ice.  | N/A    |         |
| Cooler Temperature is acceptable.  | True   |         |
| Cooler Temperature is recorded.  | True   |         |
| COC is present.  | True   |         |
| COC is filled out in ink and legible.  | True   |         |
| COC is filled out with all pertinent information.                                | True   |         |
| Is the Field Sampler's name present on COC?                                      | True   |         |
| There are no discrepancies between the containers received and the COC.          | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)    | True   |         |
| Sample containers have legible labels.   | True   |         |
| Containers are not broken or leaking.  | True   |         |
| Sample collection date/times are provided.                                       | True   |         |
| Appropriate sample containers are used.  | True   |         |
| Sample bottles are completely filled.  | True   |         |
| Sample Preservation Verified.  | True   |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | True   |         |
| Multiphasic samples are not present.   | True   |         |
| Samples do not require splitting or compositing.                                 | True   |         |
| Residual Chlorine Checked.   | N/A    |         |



# Low-Flow Test Report:

Test Date / Time: 10/24/2023 12:01:50 PM

Project: Daniel CCR BAW-1

Operator Name: Rick Hagendorfer

|  |  |  |
|--|--|--|
| <b>Location Name: Daniel CCR BAW-1</b><br><b>Well Diameter: 2 in</b><br><b>Casing Type: PVC</b><br><b>Screen Length: 5 ft</b><br><b>Top of Screen: 55.6 ft</b><br><b>Total Depth: 60.6 ft</b><br><b>Initial Depth to Water: 25.04 ft</b> | <b>Pump Type: BP</b><br><b>Tubing Type: PE</b><br><b>Pump Intake From TOC: 58.1 ft</b><br><b>Estimated Total Volume Pumped: 8000 ml</b><br><b>Flow Cell Volume: 90 ml</b><br><b>Final Flow Rate: 400 ml/min</b><br><b>Final Draw Down: 0.08 ft</b> | <b>Instrument Used: Aqua TROLL 400</b><br><b>Serial Number: 800306</b> |
|--|--|--|

## Test Notes:

## Weather Conditions:

Cloudy 79

## Low-Flow Readings:

| Date Time              | Elapsed Time | pH      | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP      | Depth to Water | Flow          |
|------------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
|                        |              | +/- 0.2 | +/- 0.2     | +/- 5 %               | +/- 0.2           | +/- 10    | +/- 20   | +/- 0.3        |               |
| 10/24/2023<br>12:01 PM | 00:00        | 5.45 pH | 25.77 °C    | 34.74 µS/cm           | 4.81 mg/L         |           | 133.5 mV | 25.04 ft       | 400.00 ml/min |
| 10/24/2023<br>12:06 PM | 05:00        | 4.97 pH | 23.26 °C    | 38.68 µS/cm           | 5.04 mg/L         | 0.46 NTU  | 196.2 mV | 25.12 ft       | 400.00 ml/min |
| 10/24/2023<br>12:11 PM | 10:00        | 4.95 pH | 23.28 °C    | 38.91 µS/cm           | 5.08 mg/L         | 0.73 NTU  | 136.0 mV | 25.12 ft       | 400.00 ml/min |
| 10/24/2023<br>12:16 PM | 15:00        | 4.97 pH | 23.14 °C    | 38.88 µS/cm           | 5.02 mg/L         | 0.75 NTU  | 133.2 mV | 25.12 ft       | 400.00 ml/min |
| 10/24/2023<br>12:21 PM | 20:00        | 4.99 pH | 23.14 °C    | 39.08 µS/cm           | 4.98 mg/L         | 0.72 NTU  | 134.2 mV | 25.12 ft       | 400.00 ml/min |

## Samples

| Sample ID: | Description:     |
|------------|------------------|
| BAW-1      | Sample time 1225 |

# Low-Flow Test Report:

Test Date / Time: 10/24/2023 1:38:05 PM

Project: Daniel CCR BAW-2A

Operator Name: Rick Hagendorfer

|  |   |  |
|--|---|--|
| <b>Location Name: Daniel CCR BAW-2A</b><br><b>Well Diameter: 2 in</b><br><b>Casing Type: PVC</b><br><b>Screen Length: 10 ft</b><br><b>Top of Screen: 57.2 ft</b><br><b>Total Depth: 67.2 ft</b><br><b>Initial Depth to Water: 34.32 ft</b> | <b>Pump Type: BP</b><br><b>Tubing Type: PE</b><br><b>Pump Intake From TOC: 62.7 ft</b><br><b>Estimated Total Volume Pumped: 8000 ml</b><br><b>Flow Cell Volume: 90 ml</b><br><b>Final Flow Rate: 400 ml/min</b><br><b>Final Draw Down: 0 ft</b> | <b>Instrument Used: Aqua TROLL 400</b><br><b>Serial Number: 800306</b> |
|--|---|--|

## Test Notes:

## Weather Conditions:

Cloudy 81

## Low-Flow Readings:

| Date Time             | Elapsed Time | pH      | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP      | Depth to Water | Flow          |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
|                       |              | +/- 0.2 | +/- 0.2     | +/- 5 %               | +/- 0.2           | +/- 10    | +/- 20   | +/- 0.3        |               |
| 10/24/2023<br>1:38 PM | 00:00        | 4.99 pH | 23.98 °C    | 60.40 µS/cm           | 2.62 mg/L         |           | 103.8 mV | 34.32 ft       | 400.00 ml/min |
| 10/24/2023<br>1:43 PM | 05:00        | 4.99 pH | 23.99 °C    | 60.98 µS/cm           | 2.57 mg/L         | 7.85 NTU  | 172.2 mV | 34.32 ft       | 400.00 ml/min |
| 10/24/2023<br>1:48 PM | 10:00        | 5.00 pH | 24.00 °C    | 60.35 µS/cm           | 2.53 mg/L         | 2.05 NTU  | 130.6 mV | 34.32 ft       | 400.00 ml/min |
| 10/24/2023<br>1:53 PM | 15:00        | 4.99 pH | 23.88 °C    | 60.41 µS/cm           | 2.54 mg/L         | 1.13 NTU  | 133.0 mV | 34.32 ft       | 400.00 ml/min |
| 10/24/2023<br>1:58 PM | 20:00        | 4.98 pH | 23.84 °C    | 60.32 µS/cm           | 2.55 mg/L         | 0.83 NTU  | 134.7 mV | 34.32 ft       | 400.00 ml/min |

## Samples

| Sample ID: | Description:          |
|------------|-----------------------|
| BAW-2A     | Sample time 1401      |
| Dup-01     | Fake sample time 1301 |

# Low-Flow Test Report:

Test Date / Time: 10/25/2023 9:22:59 AM

Project: Daniel CCR BAW-3

Operator Name: Todd Voreis

|   |  |  |
|---|--|--|
| <b>Location Name: Daniel CCR BAW-3</b><br><b>Well Diameter: 2 in</b><br><b>Casing Type: PVC</b><br><b>Screen Length: 10 ft</b><br><b>Top of Screen: 58.4 ft</b><br><b>Total Depth: 68.4 ft</b><br><b>Initial Depth to Water: 33.88 ft</b> | <b>Pump Type: BP</b><br><b>Tubing Type: PE</b><br><b>Pump Intake From TOC: 63.4 ft</b><br><b>Estimated Total Volume Pumped: 8000 ml</b><br><b>Flow Cell Volume: 90 ml</b><br><b>Final Flow Rate: 400 ml/min</b><br><b>Final Draw Down: 0.09 ft</b> | <b>Instrument Used: Aqua TROLL 400</b><br><b>Serial Number: 852546</b> |
|---|--|--|

## Test Notes:

## Weather Conditions:

Mostly cloudy, 71 degrees F

## Low-Flow Readings:

| Date Time          | Elapsed Time | pH      | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP      | Depth to Water | Flow          |
|--------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
|                    |              | +/- 0.2 | +/- 0.2     | +/- 5 %               | +/- 0.2           | +/- 10    | +/- 20   | +/- 0.3        |               |
| 10/25/2023 9:22 AM | 00:00        | 4.47 pH | 24.33 °C    | 47.77 µS/cm           | 1.33 mg/L         |           | 139.2 mV | 33.88 ft       | 400.00 ml/min |
| 10/25/2023 9:27 AM | 05:00        | 4.43 pH | 23.43 °C    | 49.00 µS/cm           | 0.47 mg/L         | 2.97 NTU  | 140.4 mV | 33.97 ft       | 400.00 ml/min |
| 10/25/2023 9:32 AM | 10:00        | 4.44 pH | 23.34 °C    | 49.11 µS/cm           | 0.43 mg/L         | 2.12 NTU  | 143.3 mV | 33.97 ft       | 400.00 ml/min |
| 10/25/2023 9:37 AM | 15:00        | 4.44 pH | 23.29 °C    | 48.94 µS/cm           | 0.40 mg/L         | 1.85 NTU  | 144.8 mV | 33.97 ft       | 400.00 ml/min |
| 10/25/2023 9:42 AM | 20:00        | 4.43 pH | 23.33 °C    | 48.88 µS/cm           | 0.40 mg/L         | 1.29 NTU  | 147.0 mV | 33.97 ft       | 400.00 ml/min |

## Samples

| Sample ID: | Description:          |
|------------|-----------------------|
| BAW-3      | Sample time 0949      |
| DUP-02     | Fake sample time 0849 |



# Low-Flow Test Report:

Test Date / Time: 10/25/2023 11:00:04 AM

Project: Daniel CCR BAW-4

Operator Name: Todd Voreis

|  |   |  |
|--|---|--|
| <b>Location Name: Daniel CCR BAW-4</b><br><b>Well Diameter: 2 in</b><br><b>Casing Type: PE</b><br><b>Screen Length: 10 ft</b><br><b>Top of Screen: 59.9 ft</b><br><b>Total Depth: 69.9 ft</b><br><b>Initial Depth to Water: 31.29 ft</b> | <b>Pump Type: BP</b><br><b>Tubing Type: PE</b><br><b>Pump Intake From TOC: 64.9 ft</b><br><b>Estimated Total Volume Pumped: 36000 ml</b><br><b>Flow Cell Volume: 90 ml</b><br><b>Final Flow Rate: 400 ml/min</b><br><b>Final Draw Down: 0.06 ft</b> | <b>Instrument Used: Aqua TROLL 400</b><br><b>Serial Number: 852546</b> |
|--|---|--|

## Test Notes:

## Weather Conditions:

Cloudy, 78 degrees F

## Low-Flow Readings:

| Date Time           | Elapsed Time | pH      | Temperature | Specific Conductivity | RDO Concentration | Turbidity  | ORP      | Depth to Water | Flow          |
|---------------------|--------------|---------|-------------|-----------------------|-------------------|------------|----------|----------------|---------------|
|                     |              | +/- 0.2 | +/- 0.2     | +/- 5 %               | +/- 0.2           | +/- 10     | +/- 20   | +/- 0.3        |               |
| 10/25/2023 11:00 AM | 00:00        | 6.13 pH | 29.39 °C    | 67.59 µS/cm           | 4.51 mg/L         |            | 147.3 mV | 31.29 ft       | 400.00 ml/min |
| 10/25/2023 11:05 AM | 05:00        | 5.60 pH | 24.24 °C    | 104.56 µS/cm          | 0.35 mg/L         | 233.00 NTU | 123.0 mV | 31.35 ft       | 400.00 ml/min |
| 10/25/2023 11:10 AM | 10:00        | 5.63 pH | 23.94 °C    | 103.96 µS/cm          | 0.19 mg/L         | 16.80 NTU  | 111.7 mV | 31.35 ft       | 400.00 ml/min |
| 10/25/2023 11:15 AM | 15:00        | 5.61 pH | 24.32 °C    | 101.59 µS/cm          | 0.19 mg/L         | 55.90 NTU  | 104.0 mV | 31.35 ft       | 400.00 ml/min |
| 10/25/2023 11:20 AM | 20:00        | 5.59 pH | 24.06 °C    | 97.95 µS/cm           | 0.19 mg/L         | 31.60 NTU  | 98.3 mV  | 31.35 ft       | 400.00 ml/min |
| 10/25/2023 11:25 AM | 25:00        | 5.57 pH | 23.97 °C    | 93.81 µS/cm           | 0.20 mg/L         | 42.90 NTU  | 93.8 mV  | 31.35 ft       | 400.00 ml/min |
| 10/25/2023 11:30 AM | 30:00        | 5.55 pH | 23.97 °C    | 92.08 µS/cm           | 0.21 mg/L         | 97.80 NTU  | 90.5 mV  | 31.35 ft       | 400.00 ml/min |
| 10/25/2023 11:35 AM | 35:00        | 5.54 pH | 23.90 °C    | 91.29 µS/cm           | 0.21 mg/L         | 54.80 NTU  | 87.4 mV  | 31.35 ft       | 400.00 ml/min |
| 10/25/2023 11:40 AM | 40:00        | 5.52 pH | 23.93 °C    | 89.11 µS/cm           | 0.21 mg/L         | 13.10 NTU  | 84.3 mV  | 31.35 ft       | 400.00 ml/min |
| 10/25/2023 11:45 AM | 45:00        | 5.49 pH | 23.88 °C    | 86.32 µS/cm           | 0.21 mg/L         | 9.05 NTU   | 82.0 mV  | 31.35 ft       | 400.00 ml/min |
| 10/25/2023 11:50 AM | 50:00        | 5.47 pH | 23.98 °C    | 85.17 µS/cm           | 0.21 mg/L         | 6.40 NTU   | 79.8 mV  | 31.35 ft       | 400.00 ml/min |
| 10/25/2023 11:55 AM | 55:00        | 5.46 pH | 24.26 °C    | 85.14 µS/cm           | 0.21 mg/L         | 5.05 NTU   | 77.0 mV  | 31.35 ft       | 400.00 ml/min |
| 10/25/2023 12:00 PM | 01:00:00     | 5.45 pH | 24.21 °C    | 84.86 µS/cm           | 0.21 mg/L         | 4.76 NTU   | 75.7 mV  | 31.35 ft       | 400.00 ml/min |

|                        |          |         |          |             |           |          |         |          |               |
|------------------------|----------|---------|----------|-------------|-----------|----------|---------|----------|---------------|
| 10/25/2023<br>12:05 PM | 01:05:00 | 5.45 pH | 24.06 °C | 84.28 µS/cm | 0.21 mg/L | 4.62 NTU | 74.1 mV | 31.35 ft | 400.00 ml/min |
| 10/25/2023<br>12:10 PM | 01:10:00 | 5.44 pH | 24.02 °C | 84.92 µS/cm | 0.21 mg/L | 2.99 NTU | 72.7 mV | 31.35 ft | 400.00 ml/min |
| 10/25/2023<br>12:15 PM | 01:15:00 | 5.42 pH | 23.97 °C | 84.33 µS/cm | 0.21 mg/L | 3.25 NTU | 71.9 mV | 31.35 ft | 400.00 ml/min |
| 10/25/2023<br>12:20 PM | 01:20:00 | 5.43 pH | 23.88 °C | 83.90 µS/cm | 0.21 mg/L | 2.99 NTU | 69.7 mV | 31.35 ft | 400.00 ml/min |
| 10/25/2023<br>12:25 PM | 01:25:00 | 5.43 pH | 23.84 °C | 84.07 µS/cm | 0.20 mg/L | 2.54 NTU | 67.9 mV | 31.35 ft | 400.00 ml/min |
| 10/25/2023<br>12:30 PM | 01:30:00 | 5.42 pH | 23.88 °C | 83.55 µS/cm | 0.20 mg/L | 2.46 NTU | 66.8 mV | 31.35 ft | 400.00 ml/min |

## Samples

| Sample ID: | Description:     |
|------------|------------------|
| BAW-4      | Sample time 1235 |

# Low-Flow Test Report:

Test Date / Time: 10/25/2023 1:27:31 PM

Project: Daniel CCR BAW-5

Operator Name: Todd Voreis

|   |  |  |
|---|--|--|
| <b>Location Name: Daniel BAW-5</b><br><b>Well Diameter: 2 in</b><br><b>Casing Type: PVC</b><br><b>Screen Length: 10 ft</b><br><b>Top of Screen: 59.1 ft</b><br><b>Total Depth: 69.1 ft</b><br><b>Initial Depth to Water: 34.93 ft</b> | <b>Pump Type: BP</b><br><b>Tubing Type: PE</b><br><b>Pump Intake From TOC: 64.1 ft</b><br><b>Estimated Total Volume Pumped: 12000 ml</b><br><b>Flow Cell Volume: 90 ml</b><br><b>Final Flow Rate: 400 ml/min</b><br><b>Final Draw Down: 0 ft</b> | <b>Instrument Used: Aqua TROLL 400</b><br><b>Serial Number: 852546</b> |
|---|--|--|

## Test Notes:

## Weather Conditions:

Mostly cloudy, 82 degrees F

## Low-Flow Readings:

| Date Time          | Elapsed Time | pH      | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP     | Depth to Water | Flow          |
|--------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
|                    |              | +/- 0.2 | +/- 0.2     | +/- 5 %               | +/- 0.2           | +/- 10    | +/- 20  | +/- 0.3        |               |
| 10/25/2023 1:27 PM | 00:00        | 6.31 pH | 26.60 °C    | 337.63 µS/cm          | 5.07 mg/L         |           | 96.9 mV | 34.93 ft       | 400.00 ml/min |
| 10/25/2023 1:32 PM | 05:00        | 6.06 pH | 23.90 °C    | 298.66 µS/cm          | 0.34 mg/L         | 2.02 NTU  | 81.0 mV | 34.93 ft       | 400.00 ml/min |
| 10/25/2023 1:37 PM | 10:00        | 6.08 pH | 23.66 °C    | 297.57 µS/cm          | 0.21 mg/L         | 1.37 NTU  | 72.2 mV | 34.93 ft       | 400.00 ml/min |
| 10/25/2023 1:42 PM | 15:00        | 6.10 pH | 23.61 °C    | 297.62 µS/cm          | 0.20 mg/L         | 1.65 NTU  | 66.0 mV | 34.93 ft       | 400.00 ml/min |
| 10/25/2023 1:47 PM | 20:00        | 6.11 pH | 23.87 °C    | 300.58 µS/cm          | 0.20 mg/L         | 2.05 NTU  | 60.7 mV | 34.93 ft       | 400.00 ml/min |
| 10/25/2023 1:52 PM | 25:00        | 6.11 pH | 23.76 °C    | 302.94 µS/cm          | 0.21 mg/L         | 1.72 NTU  | 56.8 mV | 34.93 ft       | 400.00 ml/min |
| 10/25/2023 1:57 PM | 30:00        | 6.11 pH | 23.68 °C    | 303.50 µS/cm          | 0.21 mg/L         | 1.58 NTU  | 53.5 mV | 34.93 ft       | 400.00 ml/min |

## Samples

| Sample ID: | Description:     |
|------------|------------------|
| BAW-5      | Sample time 1405 |

# Low-Flow Test Report:

Test Date / Time: 10/24/2023 7:57:43 AM

Project: Daniel CCR BAW-7

Operator Name: Rick Hagendorfer

|   |   |  |
|---|---|--|
| <b>Location Name: Daniel CCR BAW-7</b><br><b>Well Diameter: 2 in</b><br><b>Casing Type: PVC</b><br><b>Screen Length: 10 ft</b><br><b>Top of Screen: 53.8 ft</b><br><b>Total Depth: 63.8 ft</b><br><b>Initial Depth to Water: 28.97 ft</b> | <b>Pump Type: BP</b><br><b>Tubing Type: PE</b><br><b>Pump Intake From TOC: 58.8 ft</b><br><b>Estimated Total Volume Pumped: 80000 ml</b><br><b>Flow Cell Volume: 90 ml</b><br><b>Final Flow Rate: 400 ml/min</b><br><b>Final Draw Down: 0.07 ft</b> | <b>Instrument Used: Aqua TROLL 400</b><br><b>Serial Number: 800306</b> |
|---|---|--|

## Test Notes:

## Weather Conditions:

Sunny 63

## Low-Flow Readings:

| Date Time          | Elapsed Time | pH      | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP      | Depth to Water | Flow          |
|--------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
|                    |              | +/- 0.2 | +/- 0.2     | +/- 5 %               | +/- 0.2           | +/- 10    | +/- 20   | +/- 0.3        |               |
| 10/24/2023 7:57 AM | 00:00        | 4.86 pH | 20.64 °C    | 53.88 µS/cm           | 6.09 mg/L         |           | 45.1 mV  | 28.97 ft       | 400.00 ml/min |
| 10/24/2023 8:02 AM | 05:00        | 4.80 pH | 21.61 °C    | 49.49 µS/cm           | 5.06 mg/L         | 22.60 NTU | 50.6 mV  | 29.04 ft       | 400.00 ml/min |
| 10/24/2023 8:07 AM | 10:00        | 4.80 pH | 21.62 °C    | 48.63 µS/cm           | 4.86 mg/L         | 14.10 NTU | 59.7 mV  | 29.04 ft       | 400.00 ml/min |
| 10/24/2023 8:12 AM | 15:00        | 4.80 pH | 21.66 °C    | 48.53 µS/cm           | 4.65 mg/L         | 13.20 NTU | 69.8 mV  | 29.04 ft       | 400.00 ml/min |
| 10/24/2023 8:17 AM | 20:00        | 4.83 pH | 21.71 °C    | 48.12 µS/cm           | 4.71 mg/L         | 11.40 NTU | 76.0 mV  | 29.04 ft       | 400.00 ml/min |
| 10/24/2023 8:22 AM | 25:00        | 4.82 pH | 21.73 °C    | 47.88 µS/cm           | 4.60 mg/L         | 10.20 NTU | 83.5 mV  | 29.04 ft       | 400.00 ml/min |
| 10/24/2023 8:27 AM | 30:00        | 4.81 pH | 21.75 °C    | 48.08 µS/cm           | 4.69 mg/L         | 11.30 NTU | 91.4 mV  | 29.04 ft       | 400.00 ml/min |
| 10/24/2023 8:32 AM | 35:00        | 4.82 pH | 21.81 °C    | 47.82 µS/cm           | 4.55 mg/L         | 9.91 NTU  | 95.7 mV  | 29.04 ft       | 400.00 ml/min |
| 10/24/2023 8:37 AM | 40:00        | 4.84 pH | 21.82 °C    | 47.52 µS/cm           | 4.57 mg/L         | 8.42 NTU  | 100.6 mV | 29.04 ft       | 400.00 ml/min |
| 10/24/2023 8:42 AM | 45:00        | 4.84 pH | 21.84 °C    | 47.22 µS/cm           | 4.57 mg/L         | 7.92 NTU  | 106.6 mV | 29.04 ft       | 400.00 ml/min |
| 10/24/2023 8:47 AM | 50:00        | 4.86 pH | 21.93 °C    | 48.04 µS/cm           | 4.72 mg/L         | 7.56 NTU  | 111.1 mV | 29.04 ft       | 400.00 ml/min |
| 10/24/2023 8:52 AM | 55:00        | 4.84 pH | 21.97 °C    | 48.05 µS/cm           | 4.95 mg/L         | 7.41 NTU  | 117.3 mV | 29.04 ft       | 400.00 ml/min |
| 10/24/2023 8:57 AM | 01:00:00     | 4.85 pH | 22.05 °C    | 48.21 µS/cm           | 4.84 mg/L         | 6.83 NTU  | 121.2 mV | 29.04 ft       | 400.00 ml/min |

|                        |          |         |          |             |           |          |          |          |               |
|------------------------|----------|---------|----------|-------------|-----------|----------|----------|----------|---------------|
| 10/24/2023<br>9:02 AM  | 01:05:00 | 4.84 pH | 22.10 °C | 47.73 µS/cm | 4.80 mg/L | 7.22 NTU | 126.3 mV | 29.04 ft | 400.00 ml/min |
| 10/24/2023<br>9:07 AM  | 01:10:00 | 4.84 pH | 22.11 °C | 48.07 µS/cm | 5.08 mg/L | 6.44 NTU | 131.1 mV | 29.04 ft | 400.00 ml/min |
| 10/24/2023<br>9:12 AM  | 01:15:00 | 4.83 pH | 22.17 °C | 48.32 µS/cm | 5.08 mg/L | 5.67 NTU | 105.4 mV | 29.04 ft | 400.00 ml/min |
| 10/24/2023<br>9:17 AM  | 01:20:00 | 4.85 pH | 22.16 °C | 48.02 µS/cm | 5.01 mg/L | 5.85 NTU | 136.2 mV | 29.04 ft | 400.00 ml/min |
| 10/24/2023<br>9:22 AM  | 01:25:00 | 4.85 pH | 22.16 °C | 48.12 µS/cm | 4.94 mg/L | 5.30 NTU | 141.0 mV | 29.04 ft | 400.00 ml/min |
| 10/24/2023<br>9:27 AM  | 01:30:00 | 4.87 pH | 22.16 °C | 48.46 µS/cm | 5.15 mg/L | 5.72 NTU | 144.1 mV | 29.04 ft | 400.00 ml/min |
| 10/24/2023<br>9:32 AM  | 01:35:00 | 4.84 pH | 22.18 °C | 48.46 µS/cm | 5.11 mg/L | 5.20 NTU | 149.3 mV | 29.04 ft | 400.00 ml/min |
| 10/24/2023<br>9:37 AM  | 01:40:00 | 4.85 pH | 22.21 °C | 48.53 µS/cm | 5.38 mg/L | 5.07 NTU | 151.7 mV | 29.04 ft | 400.00 ml/min |
| 10/24/2023<br>9:42 AM  | 01:45:00 | 4.84 pH | 22.20 °C | 47.58 µS/cm | 4.89 mg/L | 5.19 NTU | 155.4 mV | 29.04 ft | 400.00 ml/min |
| 10/24/2023<br>9:47 AM  | 01:50:00 | 4.87 pH | 22.26 °C | 47.97 µS/cm | 5.13 mg/L | 4.86 NTU | 155.8 mV | 29.04 ft | 400.00 ml/min |
| 10/24/2023<br>9:52 AM  | 01:55:00 | 4.85 pH | 22.29 °C | 48.45 µS/cm | 5.07 mg/L | 4.73 NTU | 159.3 mV | 29.04 ft | 400.00 ml/min |
| 10/24/2023<br>9:57 AM  | 02:00:00 | 4.87 pH | 22.34 °C | 48.58 µS/cm | 5.30 mg/L | 4.89 NTU | 160.5 mV | 29.04 ft | 400.00 ml/min |
| 10/24/2023<br>10:02 AM | 02:05:00 | 4.85 pH | 22.38 °C | 47.66 µS/cm | 4.88 mg/L | 4.61 NTU | 163.4 mV | 29.04 ft | 400.00 ml/min |
| 10/24/2023<br>10:07 AM | 02:10:00 | 4.87 pH | 22.43 °C | 48.23 µS/cm | 5.21 mg/L | 4.41 NTU | 164.6 mV | 29.04 ft | 400.00 ml/min |
| 10/24/2023<br>10:12 AM | 02:15:00 | 4.88 pH | 22.47 °C | 49.09 µS/cm | 4.43 mg/L | 4.20 NTU | 168.1 mV | 29.04 ft | 400.00 ml/min |
| 10/24/2023<br>10:17 AM | 02:20:00 | 4.88 pH | 22.53 °C | 48.82 µS/cm | 4.36 mg/L | 4.57 NTU | 124.7 mV | 29.04 ft | 400.00 ml/min |
| 10/24/2023<br>10:22 AM | 02:25:00 | 4.86 pH | 22.56 °C | 48.29 µS/cm | 4.38 mg/L | 4.58 NTU | 168.8 mV | 29.04 ft | 400.00 ml/min |
| 10/24/2023<br>10:27 AM | 02:30:00 | 4.85 pH | 22.60 °C | 48.16 µS/cm | 4.55 mg/L | 4.81 NTU | 174.0 mV | 29.04 ft | 400.00 ml/min |
| 10/24/2023<br>10:32 AM | 02:35:00 | 4.87 pH | 22.51 °C | 48.01 µS/cm | 4.52 mg/L | 4.38 NTU | 127.8 mV | 29.04 ft | 400.00 ml/min |
| 10/24/2023<br>10:37 AM | 02:40:00 | 4.84 pH | 22.54 °C | 48.38 µS/cm | 4.42 mg/L | 4.48 NTU | 175.2 mV | 29.04 ft | 400.00 ml/min |
| 10/24/2023<br>10:42 AM | 02:45:00 | 4.86 pH | 22.61 °C | 48.27 µS/cm | 4.60 mg/L | 4.78 NTU | 178.8 mV | 29.04 ft | 400.00 ml/min |
| 10/24/2023<br>10:47 AM | 02:50:00 | 4.87 pH | 22.62 °C | 47.95 µS/cm | 4.45 mg/L | 4.54 NTU | 130.7 mV | 29.04 ft | 400.00 ml/min |
| 10/24/2023<br>10:52 AM | 02:55:00 | 4.85 pH | 22.72 °C | 47.93 µS/cm | 4.53 mg/L | 4.44 NTU | 179.5 mV | 29.04 ft | 400.00 ml/min |
| 10/24/2023<br>10:57 AM | 03:00:00 | 4.86 pH | 22.82 °C | 47.81 µS/cm | 4.60 mg/L | 4.68 NTU | 132.3 mV | 29.04 ft | 400.00 ml/min |
| 10/24/2023<br>11:02 AM | 03:05:00 | 4.87 pH | 22.78 °C | 48.44 µS/cm | 4.58 mg/L | 4.87 NTU | 180.9 mV | 29.04 ft | 400.00 ml/min |
| 10/24/2023<br>11:07 AM | 03:10:00 | 4.93 pH | 22.74 °C | 49.28 µS/cm | 4.53 mg/L | 4.38 NTU | 228.2 mV | 29.04 ft | 400.00 ml/min |
| 10/24/2023<br>11:12 AM | 03:15:00 | 4.93 pH | 22.74 °C | 47.96 µS/cm | 4.53 mg/L | 4.56 NTU | 148.3 mV | 29.04 ft | 400.00 ml/min |
| 10/24/2023<br>11:17 AM | 03:20:00 | 4.91 pH | 22.86 °C | 47.60 µS/cm | 4.59 mg/L | 4.57 NTU | 217.8 mV | 29.04 ft | 400.00 ml/min |

**Samples**

| Sample ID: | Description:     |
|------------|------------------|
| BAW-7      | Sample time 1120 |

# Low-Flow Test Report:

Test Date / Time: 10/24/2023 4:02:03 PM

Project: Daniel CCR BAW-8

Operator Name: Rick Hagendorfer

|   |   |  |
|---|---|--|
| <b>Location Name: Daniel CCR BAW-8</b><br><b>Well Diameter: 2 in</b><br><b>Casing Type: PVC</b><br><b>Screen Length: 10 ft</b><br><b>Top of Screen: 58.7 ft</b><br><b>Total Depth: 68.7 ft</b><br><b>Initial Depth to Water: 34.75 ft</b> | <b>Pump Type: BP</b><br><b>Tubing Type: PE</b><br><b>Pump Intake From TOC: 63.7 ft</b><br><b>Estimated Total Volume Pumped: 12000 ml</b><br><b>Flow Cell Volume: 90 ml</b><br><b>Final Flow Rate: 400 ml/min</b><br><b>Final Draw Down: 0.04 ft</b> | <b>Instrument Used: Aqua TROLL 400</b><br><b>Serial Number: 800306</b> |
|---|---|--|

## Test Notes:

## Weather Conditions:

Cloudy 80

## Low-Flow Readings:

| Date Time             | Elapsed Time | pH      | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP      | Depth to Water | Flow          |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
|                       |              | +/- 0.2 | +/- 0.2     | +/- 5 %               | +/- 0.2           | +/- 10    | +/- 20   | +/- 0.3        |               |
| 10/24/2023<br>4:02 PM | 00:00        | 6.10 pH | 24.42 °C    | 356.71 µS/cm          | 0.62 mg/L         |           | 35.1 mV  | 34.75 ft       | 400.00 ml/min |
| 10/24/2023<br>4:07 PM | 05:00        | 6.14 pH | 23.87 °C    | 355.90 µS/cm          | 0.29 mg/L         | 0.35 NTU  | -18.7 mV | 34.79 ft       | 400.00 ml/min |
| 10/24/2023<br>4:12 PM | 10:00        | 6.16 pH | 23.81 °C    | 355.67 µS/cm          | 0.27 mg/L         | 0.38 NTU  | -34.2 mV | 34.79 ft       | 400.00 ml/min |
| 10/24/2023<br>4:17 PM | 15:00        | 6.17 pH | 23.73 °C    | 355.73 µS/cm          | 0.24 mg/L         | 0.31 NTU  | -42.4 mV | 34.79 ft       | 400.00 ml/min |
| 10/24/2023<br>4:22 PM | 20:00        | 6.17 pH | 23.77 °C    | 356.07 µS/cm          | 0.23 mg/L         | 0.35 NTU  | -44.1 mV | 34.79 ft       | 400.00 ml/min |
| 10/24/2023<br>4:27 PM | 25:00        | 6.18 pH | 23.92 °C    | 355.65 µS/cm          | 0.23 mg/L         | 0.35 NTU  | -44.6 mV | 34.79 ft       | 400.00 ml/min |
| 10/24/2023<br>4:32 PM | 30:00        | 6.18 pH | 23.84 °C    | 354.50 µS/cm          | 0.22 mg/L         | 0.54 NTU  | -42.8 mV | 34.79 ft       | 400.00 ml/min |

## Samples

| Sample ID: | Description:     |
|------------|------------------|
| BAW-8      | Sample time 1635 |
| EB-01      | Sample time 1507 |
| FB-01      | Sample time 1525 |





# Low-Flow Test Report:

Test Date / Time: 10/24/2023 5:52:24 PM

Project: Daniel CCR BAW-9

Operator Name: Rick Hagendorfer

|   |   |  |
|---|---|--|
| <b>Location Name: Daniel CCR BAW-9</b><br><b>Well Diameter: 2 in</b><br><b>Casing Type: PVC</b><br><b>Screen Length: 10 ft</b><br><b>Top of Screen: 53.1 ft</b><br><b>Total Depth: 63.1 ft</b><br><b>Initial Depth to Water: 34.07 ft</b> | <b>Pump Type: BP</b><br><b>Tubing Type: PE</b><br><b>Pump Intake From TOC: 58.1 ft</b><br><b>Estimated Total Volume Pumped: 14000 ml</b><br><b>Flow Cell Volume: 90 ml</b><br><b>Final Flow Rate: 400 ml/min</b><br><b>Final Draw Down: 0.09 ft</b> | <b>Instrument Used: Aqua TROLL 400</b><br><b>Serial Number: 800306</b> |
|---|---|--|

## Test Notes:

## Weather Conditions:

Sunny 77

## Low-Flow Readings:

| Date Time          | Elapsed Time | pH      | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP     | Depth to Water | Flow          |
|--------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
|                    |              | +/- 0.2 | +/- 0.2     | +/- 5 %               | +/- 0.2           | +/- 10    | +/- 20  | +/- 0.3        |               |
| 10/24/2023 5:52 PM | 00:00        | 6.15 pH | 25.31 °C    | 221.42 µS/cm          | 2.08 mg/L         |           | 46.5 mV | 34.07 ft       | 400.00 ml/min |
| 10/24/2023 5:57 PM | 05:00        | 6.15 pH | 23.59 °C    | 244.24 µS/cm          | 0.35 mg/L         | 6.17 NTU  | 5.6 mV  | 34.16 ft       | 400.00 ml/min |
| 10/24/2023 6:02 PM | 10:00        | 6.15 pH | 23.41 °C    | 246.29 µS/cm          | 0.26 mg/L         | 4.07 NTU  | 9.6 mV  | 34.16 ft       | 400.00 ml/min |
| 10/24/2023 6:07 PM | 15:00        | 6.15 pH | 23.32 °C    | 242.94 µS/cm          | 0.22 mg/L         | 2.86 NTU  | 8.8 mV  | 34.16 ft       | 400.00 ml/min |
| 10/24/2023 6:12 PM | 20:00        | 6.15 pH | 23.28 °C    | 247.74 µS/cm          | 0.20 mg/L         | 1.59 NTU  | 5.5 mV  | 34.16 ft       | 400.00 ml/min |
| 10/24/2023 6:17 PM | 25:00        | 6.15 pH | 23.23 °C    | 246.95 µS/cm          | 0.18 mg/L         | 1.14 NTU  | 4.1 mV  | 34.16 ft       | 400.00 ml/min |
| 10/24/2023 6:22 PM | 30:00        | 6.15 pH | 23.18 °C    | 242.98 µS/cm          | 0.17 mg/L         | 1.05 NTU  | 3.8 mV  | 34.16 ft       | 400.00 ml/min |
| 10/24/2023 6:27 PM | 35:00        | 6.14 pH | 23.12 °C    | 243.07 µS/cm          | 0.15 mg/L         | 0.91 NTU  | 2.4 mV  | 34.16 ft       | 400.00 ml/min |

## Samples

| Sample ID: | Description:     |
|------------|------------------|
| BAW-9      | Sample time 1830 |



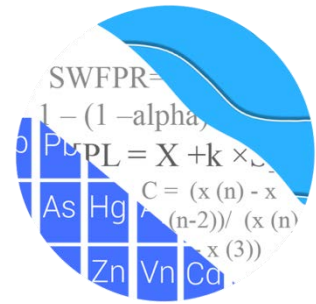
# Appendix B

**1st**  
**Semi-Annual**  
**Monitoring Event**

# GROUNDWATER STATS CONSULTING

June 7, 2023

Southern Company Services  
Attn: Mr. Trey Singleton  
3535 Colonnade Parkway  
Birmingham, AL 35243



Re: Plant Daniel Bottom Ash Pond  
2023 Annual Statistical Analysis – April 2023 Sample Event

Dear Mr. Singleton,

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 Groundwater Detection and Assessment Monitoring report for Mississippi Power Company's Plant Daniel Bottom 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 Daniel Bottom Ash Pond for the CCR program in 2016. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** BAW-1 and BAW-2A
- **Downgradient wells:** BAW-3, BAW-4, BAW-5, and BAW-7

Upgradient well BAW-2 was last sampled in October 2017 and has since been abandoned; however, data for this well are included to represent historical naturally occurring groundwater quality upgradient of the ash pond. Replacement upgradient well BAW-2A was first sampled in March 2018 and has since been sampled to supplement existing upgradient data for BAW-2.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Founder and Senior Statistician of Groundwater Stats Consulting.

The CCR program monitors the constituents listed below. The terms “parameters” and “constituents” are used interchangeably.

- **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 list of Appendix IV downgradient well/constituent pairs containing 100% non-detects follow 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 are provided for all wells and are used to evaluate concentrations over time (Figure A). Additionally, box plots are included for all constituents at upgradient and downgradient wells (Figure B). Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graph. A summary of these values follows this letter (Figure C). 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.

During the previous screening, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided with the screening to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance recommendations as discussed below.

### **Summary of Statistical Methods**

Based on the evaluation for federal regulatory requirements, the following methods were selected for Appendix III constituents:

- Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS

The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. Parametric prediction limits (or tolerance limits or confidence intervals as applicable) 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 false positive rate associated with the parametric prediction limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric prediction limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The following approaches are used for handling non-detects (USEPA, 2009):

- 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.

Note that values shown on data pages reflect raw data and any non-detects that have been substituted with one-half of the reporting limit will be shown as "<" the original reporting limit.

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 interwell case, prediction limits are updated with upgradient well data following each sampling event after careful screening for any new outliers. 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.

## **Summary of Background Screening Conducted in October 2017**

### Outlier Analysis

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not conservative from a regulatory perspective, in proposed background data. Suspected outliers at all wells for Appendix III and Appendix IV parameters were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits. No suspected outliers were observed in any of the proposed background data at upgradient wells. When any values are identified as outliers, they are plotted in a lighter font on the time series graph.

### Seasonality

No seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

### Trend Test Evaluation

While trends may be visual, a quantification of the trend and its significance is needed. 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 as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, earlier data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When the historical records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.



The results of the trend analyses showed a couple statistically significant decreasing and increasing trends. All trends noted were relatively low in magnitude when compared to average concentrations, therefore, no adjustments were made to any of the data sets.

### Appendix III – Determination of Spatial Variation

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 would not be conservative from a regulatory perspective; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

The ANOVA showed no variation for calcium, chloride, pH, sulfate, and TDS, making these parameters eligible for interwell methods. Boron and fluoride contained 100% non-detects and, therefore, could not be tested with the ANOVA. These parameters are also eligible for interwell methods since no variation is present. A summary table of the ANOVA results was included with the October 2017 screening.

### **Background Update – Appendix III Parameters – November 2019**

#### Outlier Analysis

Prior to updating background data, samples were re-evaluated for outliers at upgradient wells for all constituents. An updated summary of Tukey's test results and flagged outliers was included with the 2019 Background Update report.

#### Trend Test Evaluation

The Sen's Slope/Mann-Kendall trend test was used to determine whether concentrations are statistically increasing, decreasing or stable at upgradient wells. No statistically significant increasing or decreasing trends were noted with the exception of decreasing trends for calcium and pH in well BAW-2, which has since been abandoned. The magnitude of these trends, however, was low relative to the average concentrations in these wells. Therefore, no adjustments were required at that time; and these results were included in the 2019 Background Update report.

## Statistical Analysis of Appendix III Parameters – April 2023

Prior to constructing interwell prediction limits, data through the April 2023 sample event at upgradient wells were re-evaluated for outliers using visual screening. No additional outliers were suspected or flagged during this analysis. Tukey's outlier test had previously identified an outlier for calcium at well BAW-2 during the November 2019 statistical analysis; therefore, this value remains flagged. A summary of flagged data follows this report (Figure C). Additionally, any flagged values 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.

### Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample strategy, were established for each of the Appendix III parameters using pooled historical upgradient well data through April 2023 (Figure D). The reported measurements at downgradient wells for the April 2023 sample event were compared to the interwell prediction limits 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 would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no further action is necessary. Complete graphical results of the prediction limits may be found following this letter. Exceedances were identified for the following well/constituent pairs:

- Boron: BAW-5 and BAW-7
- Calcium: BAW-4, BAW-5, and BAW-7
- pH: BAW-3 and BAW-5
- Sulfate: BAW-3, BAW-5, and BAW-7
- TDS: BAW-5

### Trend Test Evaluation

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test at the 99% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable

(Figure E). 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. The existence of similar trends in both upgradient and downgradient wells is an indication of natural variability in groundwater that is unrelated to practices at the site. Statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- Calcium: BAW-4

Decreasing:

- Calcium: BAW-2 (upgradient)
- pH: BAW-2 (upgradient), BAW-3, and BAW-5
- Sulfate: BAW-1 (upgradient)

### **Statistical Methods – Appendix IV Parameters**

Appendix IV parameters are evaluated by statistically comparing the mean or median of each downgradient well/constituent pair against corresponding Groundwater Protection Standards (GWPS). The GWPS may be either regulatory (MCL or CCR rule-specified limits) or site-specific limits that are based on upgradient groundwater quality. Site-specific background limits are determined using upper tolerance limits, and the comparison of downgradient means or medians to GWPS is performed using confidence intervals. The methods are described below.

### **Evaluation of Appendix IV Parameters – April 2023**

For Appendix IV parameters, confidence intervals for each downgradient well/constituent pair were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Well/constituent pairs that have 100% non-detects do not require analysis. Data from upgradient wells for Appendix IV parameters are reassessed for outliers during each analysis. No additional values were flagged during this analysis. Tukey's outlier test had previously identified an outlier for lithium at upgradient well BAW-1 during the November 2019 statistical analysis, and this value remains flagged. A summary of flagged outliers follows this report (Figure C).

#### Interwell Upper Tolerance Limits

Parametric upper tolerance limits were used to calculate background limits from pooled upgradient well data through April 2023 for Appendix IV parameters with a target of 95%

confidence and 95% coverage to determine background limits (Figure F). The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples.

### Groundwater Protection Standards

The interwell upper tolerance limits were compared to the Maximum Contaminant Levels (MCLs), CCR Rule-Specified levels, and background limits in the Groundwater Protection Standard (GWPS) table following this letter to determine the highest limit for use as the GWPS in the Confidence Interval comparisons (Figure G).

### Confidence Intervals

Confidence intervals were then constructed on downgradient wells using all data through April 2023 for each of the Appendix IV parameters (Figure H). The Sanitas software was used to calculate the tolerance limits and the confidence intervals, either parametric or nonparametric, as appropriate. 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. Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its respective standard. Complete graphical results of the confidence interval follow this letter. An exceedance was identified for the following well/constituent pair:

- Lithium:                      BAW-5

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for the Daniel Bottom Ash Pond. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Andrew Collins  
Project Manager



Kristina Rayner  
Senior Statistician

# 100% Non-Detects: Appendix IV Downgradient

Analysis Run 5/10/2023 2:48 PM View: Appendix IV  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

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Antimony (mg/L)  
BAW-3, BAW-4, BAW-5, BAW-7

Arsenic (mg/L)  
BAW-3

Beryllium (mg/L)  
BAW-4, BAW-5

Cadmium (mg/L)  
BAW-4, BAW-7

Molybdenum (mg/L)  
BAW-3

Selenium (mg/L)  
BAW-4

Thallium (mg/L)  
BAW-4, BAW-5

# Appendix III Interwell Prediction Limits - Significant Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 5/10/2023, 2:44 PM

| Constituent                   | Well  | Upper Lim. | Lower Lim. | Date      | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs  | ND Adj. | Transform | Alpha     | Method                      |
|-------------------------------|-------|------------|------------|-----------|---------|------|------|---------|-----------|-------|---------|-----------|-----------|-----------------------------|
| Boron (mg/L)                  | BAW-5 | 0.0928     | n/a        | 4/21/2023 | 0.831   | Yes  | 45   | n/a     | n/a       | 86.67 | n/a     | n/a       | 0.0009429 | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)                  | BAW-7 | 0.0928     | n/a        | 4/21/2023 | 0.271   | Yes  | 45   | n/a     | n/a       | 86.67 | n/a     | n/a       | 0.0009429 | NP Inter (NDs) 1 of 2       |
| Calcium (mg/L)                | BAW-4 | 1.673      | n/a        | 4/21/2023 | 4.87    | Yes  | 44   | 0.955   | 0.1277    | 4.545 | None    | x^(1/3)   | 0.00188   | Param Inter 1 of 2          |
| Calcium (mg/L)                | BAW-5 | 1.673      | n/a        | 4/21/2023 | 26.8    | Yes  | 44   | 0.955   | 0.1277    | 4.545 | None    | x^(1/3)   | 0.00188   | Param Inter 1 of 2          |
| Calcium (mg/L)                | BAW-7 | 1.673      | n/a        | 4/21/2023 | 2.56    | Yes  | 44   | 0.955   | 0.1277    | 4.545 | None    | x^(1/3)   | 0.00188   | Param Inter 1 of 2          |
| pH (SU)                       | BAW-3 | 5.77       | 4.59       | 4/20/2023 | 4.49    | Yes  | 43   | n/a     | n/a       | 0     | n/a     | n/a       | 0.002044  | NP Inter (normality) 1 of 2 |
| pH (SU)                       | BAW-5 | 5.77       | 4.59       | 4/21/2023 | 6.09    | Yes  | 43   | n/a     | n/a       | 0     | n/a     | n/a       | 0.002044  | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L)                | BAW-3 | 7.32       | n/a        | 4/20/2023 | 8.2     | Yes  | 43   | n/a     | n/a       | 44.19 | n/a     | n/a       | 0.001022  | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L)                | BAW-5 | 7.32       | n/a        | 4/21/2023 | 47.2    | Yes  | 43   | n/a     | n/a       | 44.19 | n/a     | n/a       | 0.001022  | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L)                | BAW-7 | 7.32       | n/a        | 4/21/2023 | 8.82    | Yes  | 43   | n/a     | n/a       | 44.19 | n/a     | n/a       | 0.001022  | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | BAW-5 | 57.65      | n/a        | 4/21/2023 | 204     | Yes  | 43   | 4.947   | 1.454     | 4.651 | None    | sqrt(x)   | 0.00188   | Param Inter 1 of 2          |

# Appendix III Interwell Prediction Limits - All Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 5/10/2023, 2:44 PM

| Constituent                          | Well         | Upper Lim.    | Lower Lim.  | Date             | Observ.      | Sig.       | Bg N      | Bg Mean      | Std. Dev.     | %NDs         | ND Adj.     | Transform      | Alpha            | Method                             |
|--------------------------------------|--------------|---------------|-------------|------------------|--------------|------------|-----------|--------------|---------------|--------------|-------------|----------------|------------------|------------------------------------|
| Boron (mg/L)                         | BAW-3        | 0.0928        | n/a         | 4/20/2023        | 0.08ND       | No         | 45        | n/a          | n/a           | 86.67        | n/a         | n/a            | 0.0009429        | NP Inter (NDs) 1 of 2              |
| Boron (mg/L)                         | BAW-4        | 0.0928        | n/a         | 4/21/2023        | 0.058J       | No         | 45        | n/a          | n/a           | 86.67        | n/a         | n/a            | 0.0009429        | NP Inter (NDs) 1 of 2              |
| <b>Boron (mg/L)</b>                  | <b>BAW-5</b> | <b>0.0928</b> | <b>n/a</b>  | <b>4/21/2023</b> | <b>0.831</b> | <b>Yes</b> | <b>45</b> | <b>n/a</b>   | <b>n/a</b>    | <b>86.67</b> | <b>n/a</b>  | <b>n/a</b>     | <b>0.0009429</b> | <b>NP Inter (NDs) 1 of 2</b>       |
| <b>Boron (mg/L)</b>                  | <b>BAW-7</b> | <b>0.0928</b> | <b>n/a</b>  | <b>4/21/2023</b> | <b>0.271</b> | <b>Yes</b> | <b>45</b> | <b>n/a</b>   | <b>n/a</b>    | <b>86.67</b> | <b>n/a</b>  | <b>n/a</b>     | <b>0.0009429</b> | <b>NP Inter (NDs) 1 of 2</b>       |
| Calcium (mg/L)                       | BAW-3        | 1.673         | n/a         | 4/20/2023        | 0.789        | No         | 44        | 0.955        | 0.1277        | 4.545        | None        | x^(1/3)        | 0.00188          | Param Inter 1 of 2                 |
| <b>Calcium (mg/L)</b>                | <b>BAW-4</b> | <b>1.673</b>  | <b>n/a</b>  | <b>4/21/2023</b> | <b>4.87</b>  | <b>Yes</b> | <b>44</b> | <b>0.955</b> | <b>0.1277</b> | <b>4.545</b> | <b>None</b> | <b>x^(1/3)</b> | <b>0.00188</b>   | <b>Param Inter 1 of 2</b>          |
| <b>Calcium (mg/L)</b>                | <b>BAW-5</b> | <b>1.673</b>  | <b>n/a</b>  | <b>4/21/2023</b> | <b>26.8</b>  | <b>Yes</b> | <b>44</b> | <b>0.955</b> | <b>0.1277</b> | <b>4.545</b> | <b>None</b> | <b>x^(1/3)</b> | <b>0.00188</b>   | <b>Param Inter 1 of 2</b>          |
| <b>Calcium (mg/L)</b>                | <b>BAW-7</b> | <b>1.673</b>  | <b>n/a</b>  | <b>4/21/2023</b> | <b>2.56</b>  | <b>Yes</b> | <b>44</b> | <b>0.955</b> | <b>0.1277</b> | <b>4.545</b> | <b>None</b> | <b>x^(1/3)</b> | <b>0.00188</b>   | <b>Param Inter 1 of 2</b>          |
| Chloride (mg/L)                      | BAW-3        | 16.4          | n/a         | 4/20/2023        | 5.36         | No         | 43        | n/a          | n/a           | 0            | n/a         | n/a            | 0.001022         | NP Inter (normality) 1 of 2        |
| Chloride (mg/L)                      | BAW-4        | 16.4          | n/a         | 4/21/2023        | 6.78         | No         | 43        | n/a          | n/a           | 0            | n/a         | n/a            | 0.001022         | NP Inter (normality) 1 of 2        |
| Chloride (mg/L)                      | BAW-5        | 16.4          | n/a         | 4/21/2023        | 11.3         | No         | 43        | n/a          | n/a           | 0            | n/a         | n/a            | 0.001022         | NP Inter (normality) 1 of 2        |
| Chloride (mg/L)                      | BAW-7        | 16.4          | n/a         | 4/21/2023        | 8.95         | No         | 43        | n/a          | n/a           | 0            | n/a         | n/a            | 0.001022         | NP Inter (normality) 1 of 2        |
| Fluoride (mg/L)                      | BAW-3        | 0.1           | n/a         | 4/20/2023        | 0.1ND        | No         | 45        | n/a          | n/a           | 88.89        | n/a         | n/a            | 0.0009429        | NP Inter (NDs) 1 of 2              |
| Fluoride (mg/L)                      | BAW-4        | 0.1           | n/a         | 4/21/2023        | 0.0441J      | No         | 45        | n/a          | n/a           | 88.89        | n/a         | n/a            | 0.0009429        | NP Inter (NDs) 1 of 2              |
| Fluoride (mg/L)                      | BAW-5        | 0.1           | n/a         | 4/21/2023        | 0.0665J      | No         | 45        | n/a          | n/a           | 88.89        | n/a         | n/a            | 0.0009429        | NP Inter (NDs) 1 of 2              |
| Fluoride (mg/L)                      | BAW-7        | 0.1           | n/a         | 4/21/2023        | 0.1ND        | No         | 45        | n/a          | n/a           | 88.89        | n/a         | n/a            | 0.0009429        | NP Inter (NDs) 1 of 2              |
| <b>pH (SU)</b>                       | <b>BAW-3</b> | <b>5.77</b>   | <b>4.59</b> | <b>4/20/2023</b> | <b>4.49</b>  | <b>Yes</b> | <b>43</b> | <b>n/a</b>   | <b>n/a</b>    | <b>0</b>     | <b>n/a</b>  | <b>n/a</b>     | <b>0.002044</b>  | <b>NP Inter (normality) 1 of 2</b> |
| pH (SU)                              | BAW-4        | 5.77          | 4.59        | 4/21/2023        | 5.45         | No         | 43        | n/a          | n/a           | 0            | n/a         | n/a            | 0.002044         | NP Inter (normality) 1 of 2        |
| <b>pH (SU)</b>                       | <b>BAW-5</b> | <b>5.77</b>   | <b>4.59</b> | <b>4/21/2023</b> | <b>6.09</b>  | <b>Yes</b> | <b>43</b> | <b>n/a</b>   | <b>n/a</b>    | <b>0</b>     | <b>n/a</b>  | <b>n/a</b>     | <b>0.002044</b>  | <b>NP Inter (normality) 1 of 2</b> |
| pH (SU)                              | BAW-7        | 5.77          | 4.59        | 4/21/2023        | 4.95         | No         | 43        | n/a          | n/a           | 0            | n/a         | n/a            | 0.002044         | NP Inter (normality) 1 of 2        |
| <b>Sulfate (mg/L)</b>                | <b>BAW-3</b> | <b>7.32</b>   | <b>n/a</b>  | <b>4/20/2023</b> | <b>8.2</b>   | <b>Yes</b> | <b>43</b> | <b>n/a</b>   | <b>n/a</b>    | <b>44.19</b> | <b>n/a</b>  | <b>n/a</b>     | <b>0.001022</b>  | <b>NP Inter (normality) 1 of 2</b> |
| Sulfate (mg/L)                       | BAW-4        | 7.32          | n/a         | 4/21/2023        | 5            | No         | 43        | n/a          | n/a           | 44.19        | n/a         | n/a            | 0.001022         | NP Inter (normality) 1 of 2        |
| <b>Sulfate (mg/L)</b>                | <b>BAW-5</b> | <b>7.32</b>   | <b>n/a</b>  | <b>4/21/2023</b> | <b>47.2</b>  | <b>Yes</b> | <b>43</b> | <b>n/a</b>   | <b>n/a</b>    | <b>44.19</b> | <b>n/a</b>  | <b>n/a</b>     | <b>0.001022</b>  | <b>NP Inter (normality) 1 of 2</b> |
| <b>Sulfate (mg/L)</b>                | <b>BAW-7</b> | <b>7.32</b>   | <b>n/a</b>  | <b>4/21/2023</b> | <b>8.82</b>  | <b>Yes</b> | <b>43</b> | <b>n/a</b>   | <b>n/a</b>    | <b>44.19</b> | <b>n/a</b>  | <b>n/a</b>     | <b>0.001022</b>  | <b>NP Inter (normality) 1 of 2</b> |
| Total Dissolved Solids (mg/L)        | BAW-3        | 57.65         | n/a         | 4/20/2023        | 31           | No         | 43        | 4.947        | 1.454         | 4.651        | None        | sqrt(x)        | 0.00188          | Param Inter 1 of 2                 |
| Total Dissolved Solids (mg/L)        | BAW-4        | 57.65         | n/a         | 4/21/2023        | 50           | No         | 43        | 4.947        | 1.454         | 4.651        | None        | sqrt(x)        | 0.00188          | Param Inter 1 of 2                 |
| <b>Total Dissolved Solids (mg/L)</b> | <b>BAW-5</b> | <b>57.65</b>  | <b>n/a</b>  | <b>4/21/2023</b> | <b>204</b>   | <b>Yes</b> | <b>43</b> | <b>4.947</b> | <b>1.454</b>  | <b>4.651</b> | <b>None</b> | <b>sqrt(x)</b> | <b>0.00188</b>   | <b>Param Inter 1 of 2</b>          |
| Total Dissolved Solids (mg/L)        | BAW-7        | 57.65         | n/a         | 4/21/2023        | 47           | No         | 43        | 4.947        | 1.454         | 4.651        | None        | sqrt(x)        | 0.00188          | Param Inter 1 of 2                 |

# Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 5/10/2023, 2:46 PM

| Constituent    | Well       | Slope    | Calc. | Critical | Sig. | N  | %NDs | Normality | Xform | Alpha | Method |
|----------------|------------|----------|-------|----------|------|----|------|-----------|-------|-------|--------|
| Calcium (mg/L) | BAW-2 (bg) | -0.4143  | -23   | -21      | Yes  | 8  | 0    | n/a       | n/a   | 0.01  | NP     |
| Calcium (mg/L) | BAW-4      | 0.2888   | 104   | 98       | Yes  | 23 | 0    | n/a       | n/a   | 0.01  | NP     |
| pH (SU)        | BAW-2 (bg) | -0.5393  | -29   | -25      | Yes  | 9  | 0    | n/a       | n/a   | 0.01  | NP     |
| pH (SU)        | BAW-3      | -0.05974 | -137  | -92      | Yes  | 22 | 0    | n/a       | n/a   | 0.01  | NP     |
| pH (SU)        | BAW-5      | -0.06166 | -132  | -92      | Yes  | 22 | 0    | n/a       | n/a   | 0.01  | NP     |
| Sulfate (mg/L) | BAW-1 (bg) | -0.3739  | -104  | -92      | Yes  | 22 | 50   | n/a       | n/a   | 0.01  | NP     |



# Trend Tests - Prediction Limit Exceedances - All Results

Plant Daniel    Client: Southern Company    Data: Bottom Ash CCR    Printed 5/10/2023, 2:46 PM

| Constituent                   | Well              | Slope           | Calc.       | Critical   | Sig.       | N         | %NDs      | Normality  | Xform      | Alpha       | Method    |
|-------------------------------|-------------------|-----------------|-------------|------------|------------|-----------|-----------|------------|------------|-------------|-----------|
| Boron (mg/L)                  | BAW-1 (bg)        | 0               | 8           | 98         | No         | 23        | 95.65     | n/a        | n/a        | 0.01        | NP        |
| Boron (mg/L)                  | BAW-2 (bg)        | 0               | 0           | 25         | No         | 9         | 100       | n/a        | n/a        | 0.01        | NP        |
| Boron (mg/L)                  | BAW-2A (bg)       | 0               | -24         | -43        | No         | 13        | 61.54     | n/a        | n/a        | 0.01        | NP        |
| Boron (mg/L)                  | BAW-5             | 0.001109        | 20          | 98         | No         | 23        | 0         | n/a        | n/a        | 0.01        | NP        |
| Boron (mg/L)                  | BAW-7             | 0               | 88          | 98         | No         | 23        | 78.26     | n/a        | n/a        | 0.01        | NP        |
| Calcium (mg/L)                | BAW-1 (bg)        | 0.0304          | 68          | 98         | No         | 23        | 4.348     | n/a        | n/a        | 0.01        | NP        |
| <b>Calcium (mg/L)</b>         | <b>BAW-2 (bg)</b> | <b>-0.4143</b>  | <b>-23</b>  | <b>-21</b> | <b>Yes</b> | <b>8</b>  | <b>0</b>  | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| Calcium (mg/L)                | BAW-2A (bg)       | -0.0499         | -32         | -43        | No         | 13        | 7.692     | n/a        | n/a        | 0.01        | NP        |
| <b>Calcium (mg/L)</b>         | <b>BAW-4</b>      | <b>0.2888</b>   | <b>104</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> |
| Calcium (mg/L)                | BAW-5             | 0               | -5          | -98        | No         | 23        | 0         | n/a        | n/a        | 0.01        | NP        |
| Calcium (mg/L)                | BAW-7             | 0.04488         | 49          | 98         | No         | 23        | 0         | n/a        | n/a        | 0.01        | NP        |
| pH (SU)                       | BAW-1 (bg)        | -0.0213         | -45         | -92        | No         | 22        | 0         | n/a        | n/a        | 0.01        | NP        |
| <b>pH (SU)</b>                | <b>BAW-2 (bg)</b> | <b>-0.5393</b>  | <b>-29</b>  | <b>-25</b> | <b>Yes</b> | <b>9</b>  | <b>0</b>  | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| pH (SU)                       | BAW-2A (bg)       | -0.04932        | -27         | -38        | No         | 12        | 0         | n/a        | n/a        | 0.01        | NP        |
| <b>pH (SU)</b>                | <b>BAW-3</b>      | <b>-0.05974</b> | <b>-137</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 (SU)</b>                | <b>BAW-5</b>      | <b>-0.06166</b> | <b>-132</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 (mg/L)</b>         | <b>BAW-1 (bg)</b> | <b>-0.3739</b>  | <b>-104</b> | <b>-92</b> | <b>Yes</b> | <b>22</b> | <b>50</b> | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| Sulfate (mg/L)                | BAW-2 (bg)        | 0               | -11         | -25        | No         | 9         | 77.78     | n/a        | n/a        | 0.01        | NP        |
| Sulfate (mg/L)                | BAW-2A (bg)       | 0.8796          | 35          | 38         | No         | 12        | 8.333     | n/a        | n/a        | 0.01        | NP        |
| Sulfate (mg/L)                | BAW-3             | 0.1636          | 55          | 92         | No         | 22        | 18.18     | n/a        | n/a        | 0.01        | NP        |
| Sulfate (mg/L)                | BAW-5             | 0.3911          | 41          | 92         | No         | 22        | 0         | n/a        | n/a        | 0.01        | NP        |
| Sulfate (mg/L)                | BAW-7             | 0               | -17         | -92        | No         | 22        | 40.91     | n/a        | n/a        | 0.01        | NP        |
| Total Dissolved Solids (mg/L) | BAW-1 (bg)        | 1.323           | 63          | 92         | No         | 22        | 9.091     | n/a        | n/a        | 0.01        | NP        |
| Total Dissolved Solids (mg/L) | BAW-2 (bg)        | -5.236          | -4          | -25        | No         | 9         | 0         | n/a        | n/a        | 0.01        | NP        |
| Total Dissolved Solids (mg/L) | BAW-2A (bg)       | 0.8816          | 7           | 38         | No         | 12        | 0         | n/a        | n/a        | 0.01        | NP        |
| Total Dissolved Solids (mg/L) | BAW-5             | 2.29            | 17          | 92         | No         | 22        | 0         | n/a        | n/a        | 0.01        | NP        |

# Upper Tolerance Limits Summary Table

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 6/7/2023, 8:58 AM

| Constituent                       | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig.Bg N | Bg Mean | Std. Dev. | %NDs  | ND Adj. | Transform Alpha | Method                     |
|-----------------------------------|------|------------|------------|------|---------|----------|---------|-----------|-------|---------|-----------------|----------------------------|
| Antimony (mg/L)                   | n/a  | 0.002      | n/a        | n/a  | n/a     | n/a 37   | n/a     | n/a       | 97.3  | n/a     | n/a             | 0.1499 NP Inter(NDs)       |
| Arsenic (mg/L)                    | n/a  | 0.001      | n/a        | n/a  | n/a     | n/a 43   | n/a     | n/a       | 100   | n/a     | n/a             | 0.1102 NP Inter(NDs)       |
| Barium (mg/L)                     | n/a  | 0.0512     | n/a        | n/a  | n/a     | n/a 43   | n/a     | n/a       | 2.326 | n/a     | n/a             | 0.1102 NP Inter(normality) |
| Beryllium (mg/L)                  | n/a  | 0.001      | n/a        | n/a  | n/a     | n/a 39   | n/a     | n/a       | 97.44 | n/a     | n/a             | 0.1353 NP Inter(NDs)       |
| Cadmium (mg/L)                    | n/a  | 0.001      | n/a        | n/a  | n/a     | n/a 43   | n/a     | n/a       | 97.67 | n/a     | n/a             | 0.1102 NP Inter(NDs)       |
| Chromium (mg/L)                   | n/a  | 0.00286    | n/a        | n/a  | n/a     | n/a 41   | n/a     | n/a       | 90.24 | n/a     | n/a             | 0.1221 NP Inter(NDs)       |
| Cobalt (mg/L)                     | n/a  | 0.002      | n/a        | n/a  | n/a     | n/a 43   | n/a     | n/a       | 6.977 | n/a     | n/a             | 0.1102 NP Inter(normality) |
| Combined Radium 226 + 228 (pCi/L) | n/a  | 2.5        | n/a        | n/a  | n/a     | n/a 43   | n/a     | n/a       | 4.651 | n/a     | n/a             | 0.1102 NP Inter(normality) |
| Fluoride (mg/L)                   | n/a  | 0.1        | n/a        | n/a  | n/a     | n/a 45   | n/a     | n/a       | 88.89 | n/a     | n/a             | 0.09944 NP Inter(NDs)      |
| Lead (mg/L)                       | n/a  | 0.001      | n/a        | n/a  | n/a     | n/a 41   | n/a     | n/a       | 100   | n/a     | n/a             | 0.1221 NP Inter(NDs)       |
| Lithium (mg/L)                    | n/a  | 0.00505    | n/a        | n/a  | n/a     | n/a 42   | n/a     | n/a       | 69.05 | n/a     | n/a             | 0.116 NP Inter(NDs)        |
| Mercury (mg/L)                    | n/a  | 0.0002     | n/a        | n/a  | n/a     | n/a 35   | n/a     | n/a       | 94.29 | n/a     | n/a             | 0.1661 NP Inter(NDs)       |
| Molybdenum (mg/L)                 | n/a  | 0.005      | n/a        | n/a  | n/a     | n/a 39   | n/a     | n/a       | 89.74 | n/a     | n/a             | 0.1353 NP Inter(NDs)       |
| Selenium (mg/L)                   | n/a  | 0.005      | n/a        | n/a  | n/a     | n/a 39   | n/a     | n/a       | 84.62 | n/a     | n/a             | 0.1353 NP Inter(NDs)       |
| Thallium (mg/L)                   | n/a  | 0.001      | n/a        | n/a  | n/a     | n/a 39   | n/a     | n/a       | 97.44 | n/a     | n/a             | 0.1353 NP Inter(NDs)       |

| <b>PLANT DANIEL BOTTOM ASH GWPS</b> |            |                           |                         |             |
|-------------------------------------|------------|---------------------------|-------------------------|-------------|
| <b>Constituent Name</b>             | <b>MCL</b> | <b>CCR-Rule Specified</b> | <b>Background Limit</b> | <b>GWPS</b> |
| Antimony, Total (mg/L)              | 0.006      |                           | 0.002                   | 0.006       |
| Arsenic, Total (mg/L)               | 0.01       |                           | 0.001                   | 0.01        |
| Barium, Total (mg/L)                | 2          |                           | 0.051                   | 2           |
| Beryllium, Total (mg/L)             | 0.004      |                           | 0.001                   | 0.004       |
| Cadmium, Total (mg/L)               | 0.005      |                           | 0.001                   | 0.005       |
| Chromium, Total (mg/L)              | 0.1        |                           | 0.0029                  | 0.1         |
| Cobalt, Total (mg/L)                | n/a        | 0.006                     | 0.002                   | 0.006       |
| Combined Radium, Total (pCi/L)      | 5          |                           | 2.5                     | 5           |
| Fluoride, Total (mg/L)              | 4          |                           | 0.1                     | 4           |
| Lead, Total (mg/L)                  | 0.015      |                           | 0.001                   | 0.015       |
| Lithium, Total (mg/L)               | n/a        | 0.04                      | 0.0051                  | 0.04        |
| Mercury, Total (mg/L)               | 0.002      |                           | 0.0002                  | 0.002       |
| Molybdenum, Total (mg/L)            | n/a        | 0.1                       | 0.005                   | 0.1         |
| Selenium, Total (mg/L)              | 0.05       |                           | 0.005                   | 0.05        |
| Thallium, Total (mg/L)              | 0.002      |                           | 0.001                   | 0.002       |

\*MCL = Maximum Contaminant Level

\*CCR = Coal Combustion Residuals

\*GWPS = Groundwater Protection Standard

# Confidence Intervals - Significant Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 6/7/2023, 9:00 AM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Compliance</u> | <u>Sig.</u> | <u>N</u> | <u>Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|--------------------|-------------|-------------------|-------------------|-------------------|-------------|----------|-------------|------------------|-------------|----------------|------------------|--------------|---------------|
| Lithium (mg/L)     | BAW-5       | 0.1885            | 0.1449            | 0.04              | Yes         | 22       | 0.1608      | 0.05013          | 0           | None           | x^2              | 0.01         | Param.        |

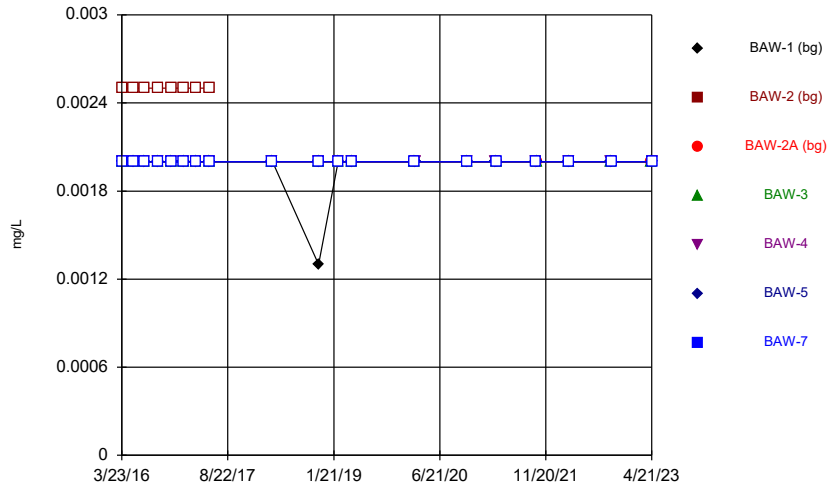
# Confidence Intervals - All Results

Plant Daniel    Client: Southern Company    Data: Bottom Ash CCR    Printed 6/7/2023, 9:00 AM

| Constituent                       | Well         | Upper Lim.    | Lower Lim.    | Compliance  | Sig.       | N         | Mean          | Std. Dev.      | %NDs     | ND Adj.      | Transform  | Alpha       | Method         |
|-----------------------------------|--------------|---------------|---------------|-------------|------------|-----------|---------------|----------------|----------|--------------|------------|-------------|----------------|
| Arsenic (mg/L)                    | BAW-4        | 0.0013        | 0.000737      | 0.01        | No         | 22        | 0.001472      | 0.001319       | 18.18    | None         | No         | 0.01        | NP (normality) |
| Arsenic (mg/L)                    | BAW-5        | 0.004159      | 0.001899      | 0.01        | No         | 22        | 0.003733      | 0.003305       | 0        | None         | ln(x)      | 0.01        | Param.         |
| Arsenic (mg/L)                    | BAW-7        | 0.001         | 0.00052       | 0.01        | No         | 22        | 0.0009555     | 0.0001442      | 90.91    | None         | No         | 0.01        | NP (NDs)       |
| Barium (mg/L)                     | BAW-3        | 0.03128       | 0.02286       | 2           | No         | 22        | 0.02707       | 0.007847       | 0        | None         | No         | 0.01        | Param.         |
| Barium (mg/L)                     | BAW-4        | 0.012         | 0.0091        | 2           | No         | 22        | 0.01336       | 0.007388       | 0        | None         | No         | 0.01        | NP (normality) |
| Barium (mg/L)                     | BAW-5        | 0.0493        | 0.041         | 2           | No         | 22        | 0.04865       | 0.01527        | 0        | None         | No         | 0.01        | NP (normality) |
| Barium (mg/L)                     | BAW-7        | 0.014         | 0.011         | 2           | No         | 22        | 0.01779       | 0.01795        | 0        | None         | No         | 0.01        | NP (normality) |
| Beryllium (mg/L)                  | BAW-3        | 0.001         | 0.000225      | 0.004       | No         | 20        | 0.0009613     | 0.0001733      | 95       | None         | No         | 0.01        | NP (NDs)       |
| Beryllium (mg/L)                  | BAW-7        | 0.001         | 0.000185      | 0.004       | No         | 20        | 0.0009593     | 0.0001822      | 95       | None         | No         | 0.01        | NP (NDs)       |
| Cadmium (mg/L)                    | BAW-3        | 0.0008835     | 0.0005845     | 0.005       | No         | 22        | 0.000734      | 0.0002785      | 4.545    | None         | No         | 0.01        | Param.         |
| Cadmium (mg/L)                    | BAW-5        | 0.001         | 0.000155      | 0.005       | No         | 22        | 0.0009616     | 0.0001802      | 95.45    | None         | No         | 0.01        | NP (NDs)       |
| Chromium (mg/L)                   | BAW-3        | 0.003         | 0.00165       | 0.1         | No         | 21        | 0.002845      | 0.003732       | 85.71    | None         | No         | 0.01        | NP (NDs)       |
| Chromium (mg/L)                   | BAW-4        | 0.002         | 0.0015        | 0.1         | No         | 21        | 0.00191       | 0.0002385      | 85.71    | None         | No         | 0.01        | NP (NDs)       |
| Chromium (mg/L)                   | BAW-5        | 0.0024        | 0.0012        | 0.1         | No         | 21        | 0.002124      | 0.0006884      | 85.71    | None         | No         | 0.01        | NP (NDs)       |
| Chromium (mg/L)                   | BAW-7        | 0.00206       | 0.002         | 0.1         | No         | 21        | 0.002003      | 0.00001309     | 95.24    | None         | No         | 0.01        | NP (NDs)       |
| Cobalt (mg/L)                     | BAW-3        | 0.006429      | 0.004958      | 0.006       | No         | 22        | 0.005694      | 0.001371       | 0        | None         | No         | 0.01        | Param.         |
| Cobalt (mg/L)                     | BAW-4        | 0.001371      | 0.001023      | 0.006       | No         | 22        | 0.001212      | 0.0003442      | 0        | None         | sqrt(x)    | 0.01        | Param.         |
| Cobalt (mg/L)                     | BAW-5        | 0.000802      | 0.0005        | 0.006       | No         | 22        | 0.0006759     | 0.0005147      | 77.27    | None         | No         | 0.01        | NP (NDs)       |
| Cobalt (mg/L)                     | BAW-7        | 0.0011        | 0.00071       | 0.006       | No         | 22        | 0.001148      | 0.001023       | 0        | None         | No         | 0.01        | NP (normality) |
| Combined Radium 226 + 228 (pCi/L) | BAW-3        | 0.78          | 0.27          | 5           | No         | 22        | 0.6151        | 0.7057         | 9.091    | None         | No         | 0.01        | NP (normality) |
| Combined Radium 226 + 228 (pCi/L) | BAW-4        | 0.7281        | 0.1135        | 5           | No         | 22        | 0.6049        | 0.8067         | 13.64    | None         | x^(1/3)    | 0.01        | Param.         |
| Combined Radium 226 + 228 (pCi/L) | BAW-5        | 0.915         | 0.366         | 5           | No         | 21        | 0.7063        | 0.5959         | 4.762    | None         | sqrt(x)    | 0.01        | Param.         |
| Combined Radium 226 + 228 (pCi/L) | BAW-7        | 1.056         | 0.307         | 5           | No         | 22        | 0.8108        | 0.8255         | 13.64    | None         | sqrt(x)    | 0.01        | Param.         |
| Fluoride (mg/L)                   | BAW-3        | 0.1           | 0.034         | 4           | No         | 23        | 0.09412       | 0.0195         | 91.3     | None         | No         | 0.01        | NP (NDs)       |
| Fluoride (mg/L)                   | BAW-4        | 0.0544        | 0.04          | 4           | No         | 23        | 0.05795       | 0.02625        | 26.09    | None         | No         | 0.01        | NP (normality) |
| Fluoride (mg/L)                   | BAW-5        | 0.0665        | 0.05          | 4           | No         | 23        | 0.06417       | 0.02764        | 4.348    | None         | No         | 0.01        | NP (normality) |
| Fluoride (mg/L)                   | BAW-7        | 0.1           | 0.0415        | 4           | No         | 23        | 0.09427       | 0.01913        | 91.3     | None         | No         | 0.01        | NP (NDs)       |
| Lead (mg/L)                       | BAW-3        | 0.001         | 0.000236      | 0.015       | No         | 21        | 0.000687      | 0.0003818      | 57.14    | None         | No         | 0.01        | NP (NDs)       |
| Lead (mg/L)                       | BAW-4        | 0.001         | 0.00042       | 0.015       | No         | 21        | 0.0008645     | 0.0002911      | 80.95    | None         | No         | 0.01        | NP (NDs)       |
| Lead (mg/L)                       | BAW-5        | 0.001         | 0.000152      | 0.015       | No         | 21        | 0.0009596     | 0.000185       | 95.24    | None         | No         | 0.01        | NP (NDs)       |
| Lead (mg/L)                       | BAW-7        | 0.001         | 0.000129      | 0.015       | No         | 21        | 0.0009585     | 0.0001901      | 95.24    | None         | No         | 0.01        | NP (NDs)       |
| Lithium (mg/L)                    | BAW-3        | 0.005         | 0.00322       | 0.04        | No         | 22        | 0.004348      | 0.001284       | 63.64    | None         | No         | 0.01        | NP (NDs)       |
| Lithium (mg/L)                    | BAW-4        | 0.02669       | 0.01829       | 0.04        | No         | 22        | 0.02249       | 0.007821       | 0        | None         | No         | 0.01        | Param.         |
| <b>Lithium (mg/L)</b>             | <b>BAW-5</b> | <b>0.1885</b> | <b>0.1449</b> | <b>0.04</b> | <b>Yes</b> | <b>22</b> | <b>0.1608</b> | <b>0.05013</b> | <b>0</b> | <b>None</b>  | <b>x^2</b> | <b>0.01</b> | <b>Param.</b>  |
| Lithium (mg/L)                    | BAW-7        | 0.005         | 0.00375       | 0.04        | No         | 22        | 0.004986      | 0.002315       | 54.55    | None         | No         | 0.01        | NP (NDs)       |
| Mercury (mg/L)                    | BAW-3        | 0.000497      | 0.00013       | 0.002       | No         | 18        | 0.0002062     | 0.00007892     | 83.33    | None         | No         | 0.01        | NP (NDs)       |
| Mercury (mg/L)                    | BAW-4        | 0.0002        | 0.00013       | 0.002       | No         | 18        | 0.0001891     | 0.00003332     | 88.89    | None         | No         | 0.01        | NP (NDs)       |
| Mercury (mg/L)                    | BAW-5        | 0.0002        | 0.000074      | 0.002       | No         | 18        | 0.000193      | 0.0000297      | 94.44    | None         | No         | 0.01        | NP (NDs)       |
| Mercury (mg/L)                    | BAW-7        | 0.000235      | 0.000151      | 0.002       | No         | 18        | 0.0002476     | 0.00024        | 77.78    | None         | No         | 0.01        | NP (NDs)       |
| Molybdenum (mg/L)                 | BAW-4        | 0.015         | 0.00109       | 0.1         | No         | 20        | 0.01089       | 0.006455       | 70       | None         | No         | 0.01        | NP (NDs)       |
| Molybdenum (mg/L)                 | BAW-5        | 0.003781      | 0.0015        | 0.1         | No         | 20        | 0.006679      | 0.0059         | 30       | Kaplan-Meier | x^(1/3)    | 0.01        | Param.         |
| Molybdenum (mg/L)                 | BAW-7        | 0.005         | 0.0038        | 0.1         | No         | 20        | 0.00494       | 0.0002683      | 95       | Kaplan-Meier | No         | 0.01        | NP (NDs)       |
| Selenium (mg/L)                   | BAW-3        | 0.005         | 0.00041       | 0.05        | No         | 20        | 0.003419      | 0.002215       | 65       | None         | No         | 0.01        | NP (NDs)       |
| Selenium (mg/L)                   | BAW-5        | 0.005         | 0.00033       | 0.05        | No         | 20        | 0.004766      | 0.001044       | 95       | None         | No         | 0.01        | NP (NDs)       |
| Selenium (mg/L)                   | BAW-7        | 0.005         | 0.0021        | 0.05        | No         | 20        | 0.003914      | 0.001964       | 75       | None         | No         | 0.01        | NP (NDs)       |
| Thallium (mg/L)                   | BAW-3        | 0.001         | 0.000276      | 0.002       | No         | 20        | 0.0008307     | 0.0003491      | 80       | None         | No         | 0.01        | NP (NDs)       |
| Thallium (mg/L)                   | BAW-7        | 0.001         | 0.000153      | 0.002       | No         | 20        | 0.0009577     | 0.0001894      | 95       | None         | No         | 0.01        | NP (NDs)       |

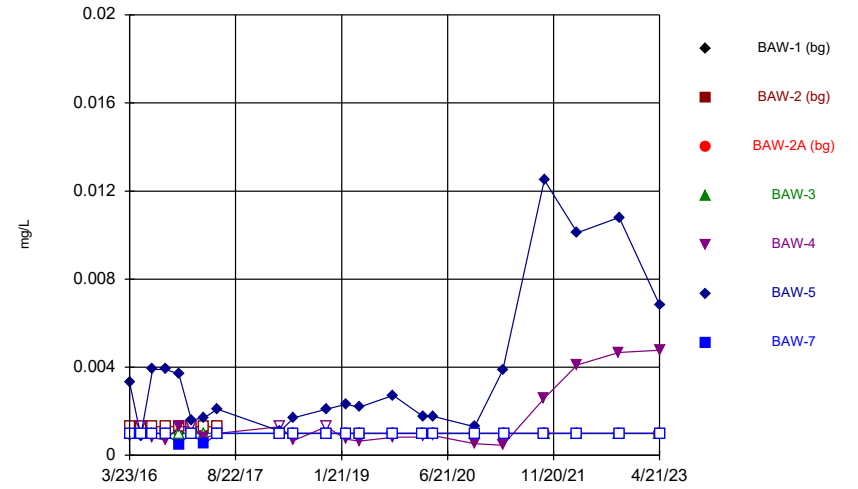
FIGURE A.

Time Series



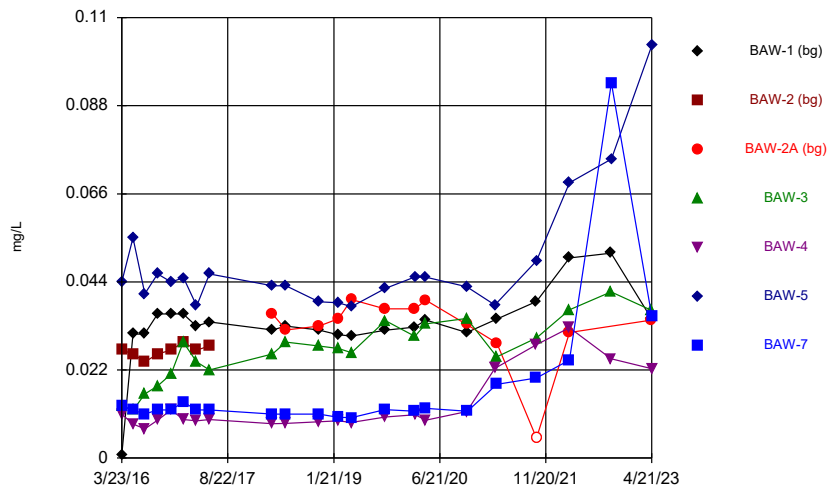
Constituent: Antimony Analysis Run 6/7/2023 8:53 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



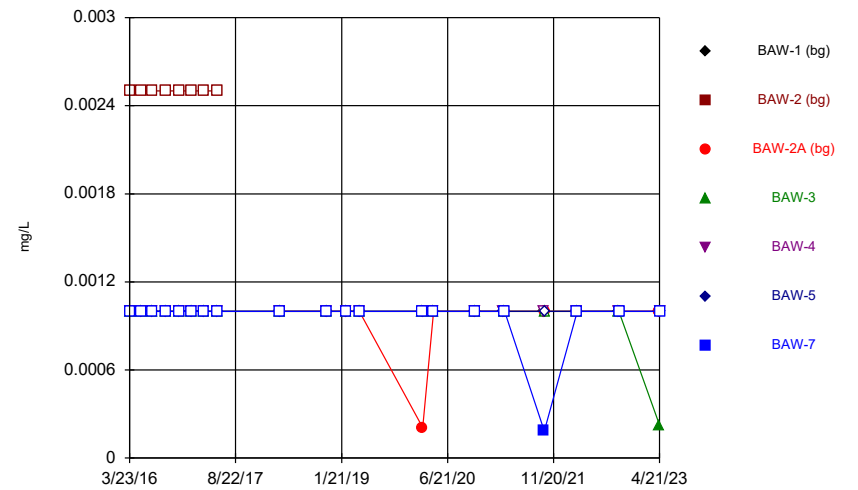
Constituent: Arsenic Analysis Run 6/7/2023 8:53 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



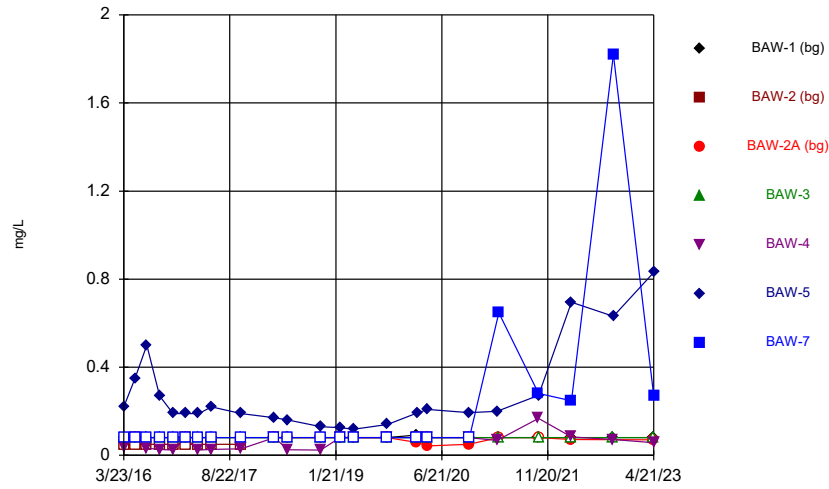
Constituent: Barium Analysis Run 6/7/2023 8:53 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



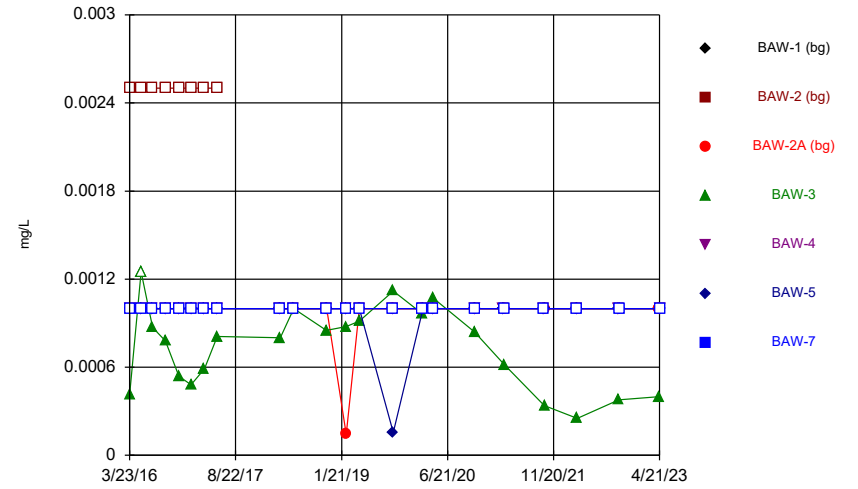
Constituent: Beryllium Analysis Run 6/7/2023 8:53 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Time Series



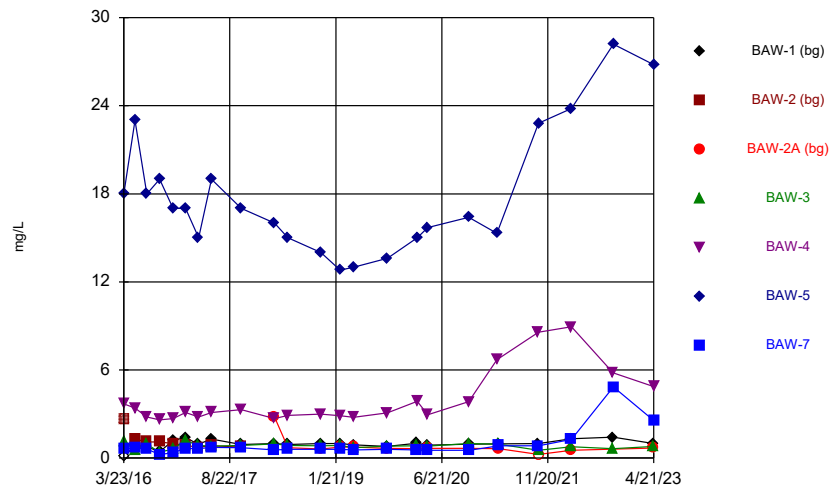
Constituent: Boron Analysis Run 6/7/2023 8:53 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Time Series



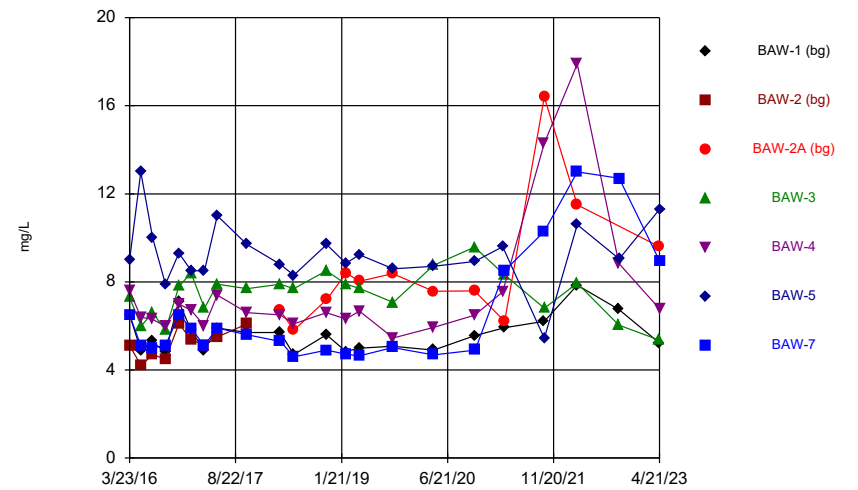
Constituent: Cadmium Analysis Run 6/7/2023 8:53 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Time Series



Constituent: Calcium Analysis Run 6/7/2023 8:53 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

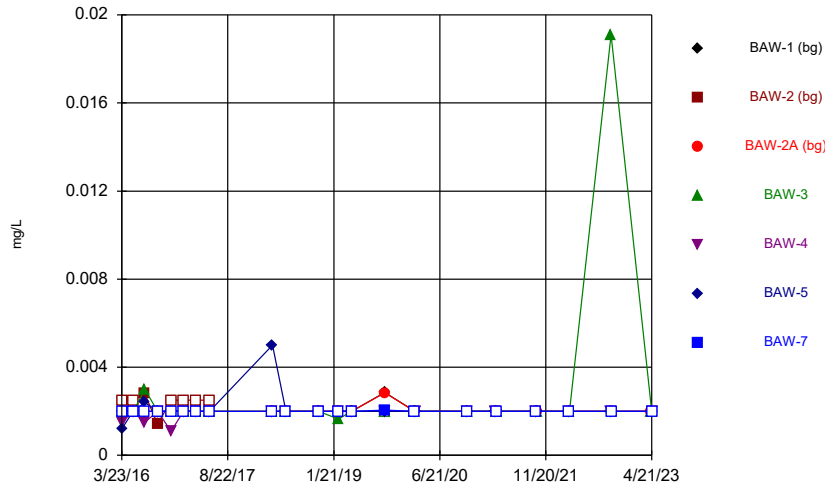
### Time Series



Constituent: Chloride Analysis Run 6/7/2023 8:53 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

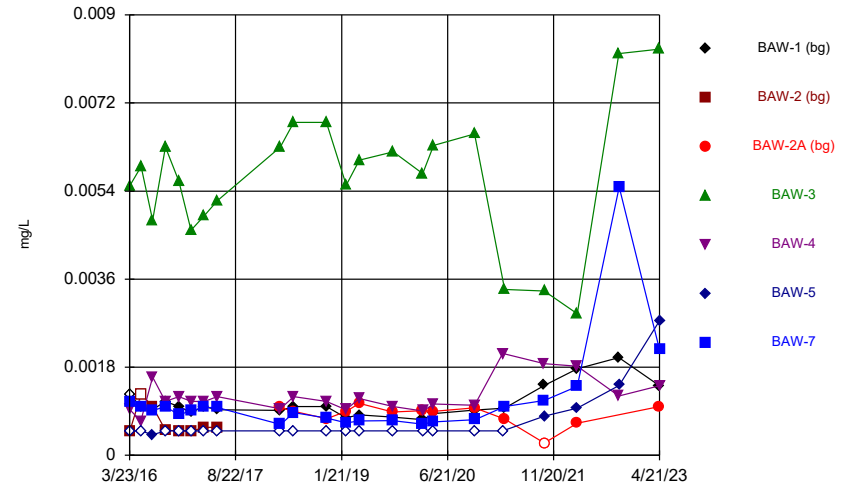


Time Series



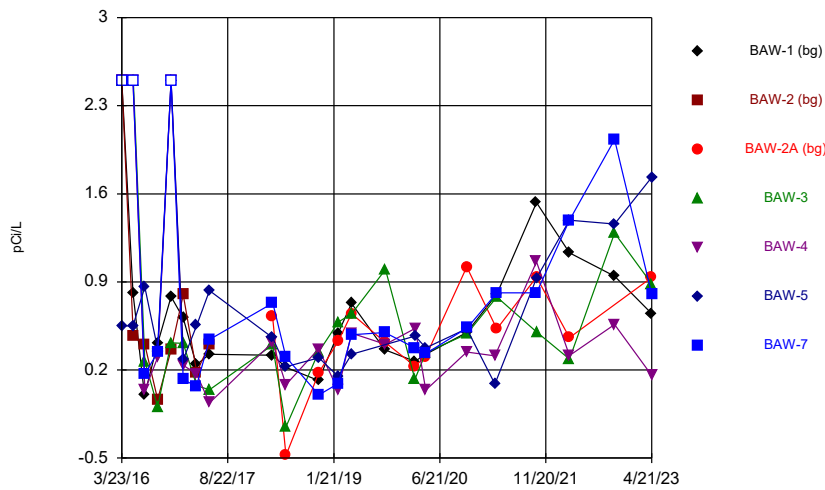
Constituent: Chromium Analysis Run 6/7/2023 8:53 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



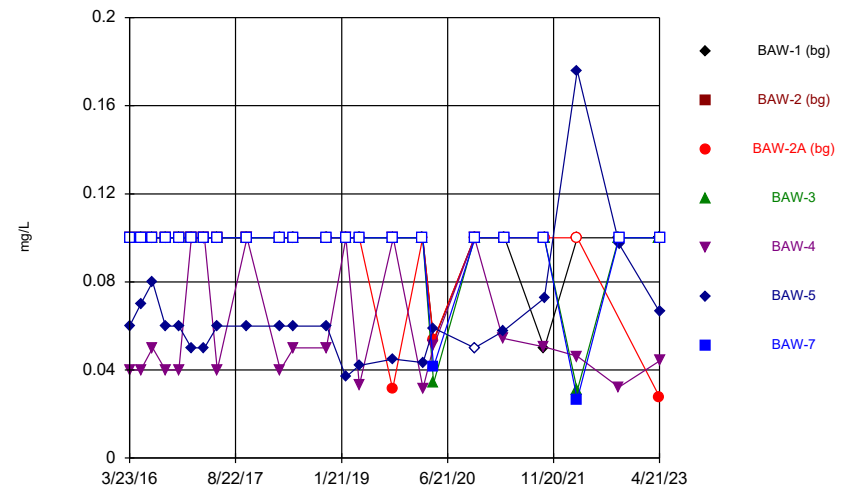
Constituent: Cobalt Analysis Run 6/7/2023 8:53 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



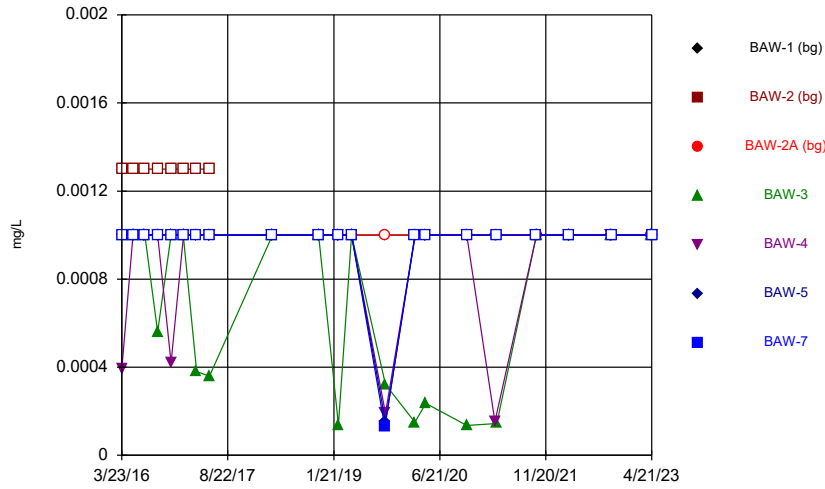
Constituent: Combined Radium 226 + 228 Analysis Run 6/7/2023 8:53 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



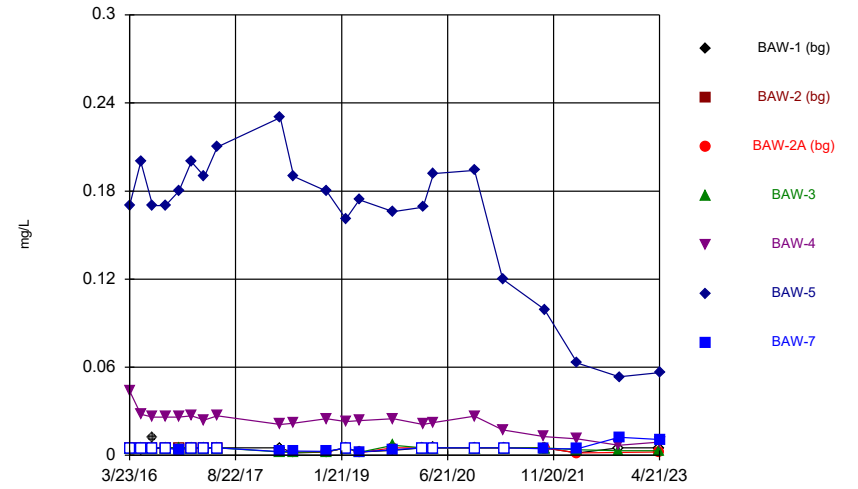
Constituent: Fluoride Analysis Run 6/7/2023 8:53 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



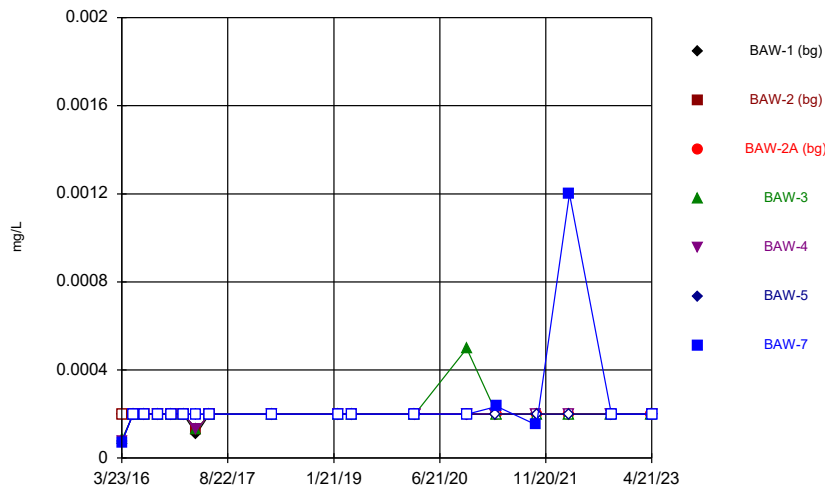
Constituent: Lead Analysis Run 6/7/2023 8:53 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



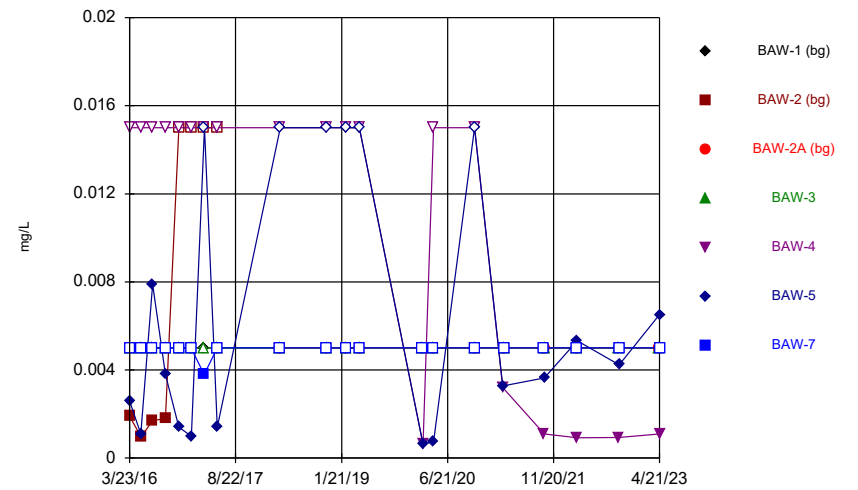
Constituent: Lithium Analysis Run 6/7/2023 8:53 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



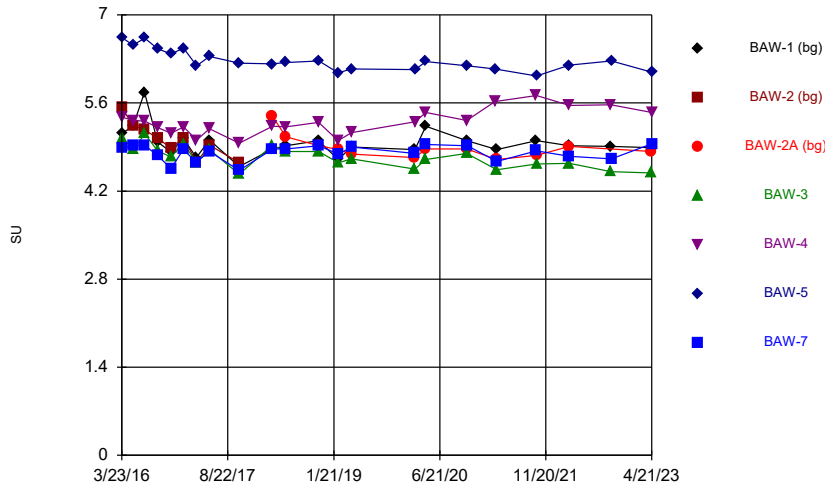
Constituent: Mercury Analysis Run 6/7/2023 8:53 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



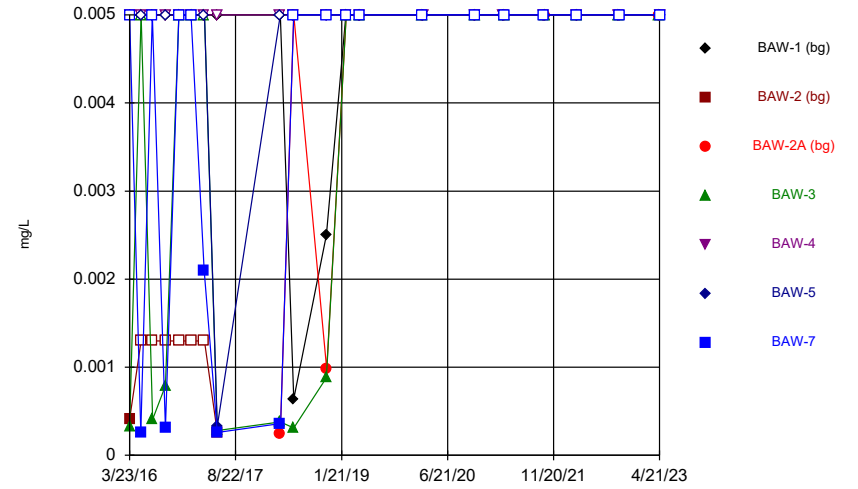
Constituent: Molybdenum Analysis Run 6/7/2023 8:53 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



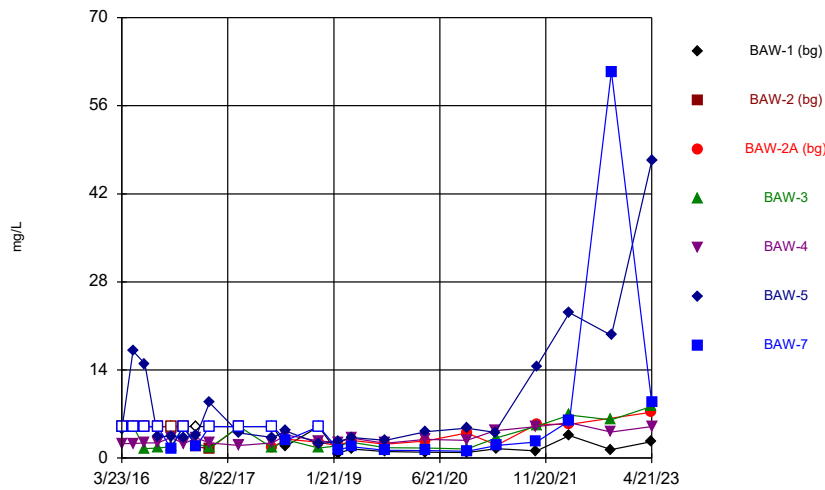
Constituent: pH Analysis Run 6/7/2023 8:53 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



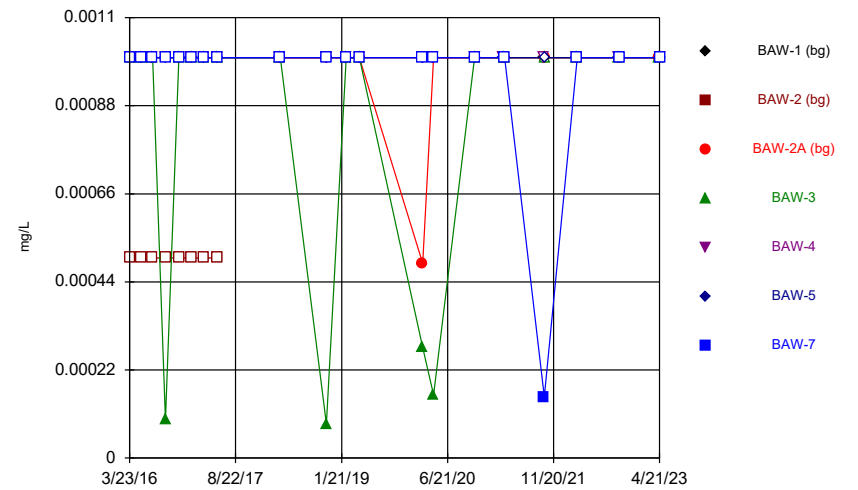
Constituent: Selenium Analysis Run 6/7/2023 8:53 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



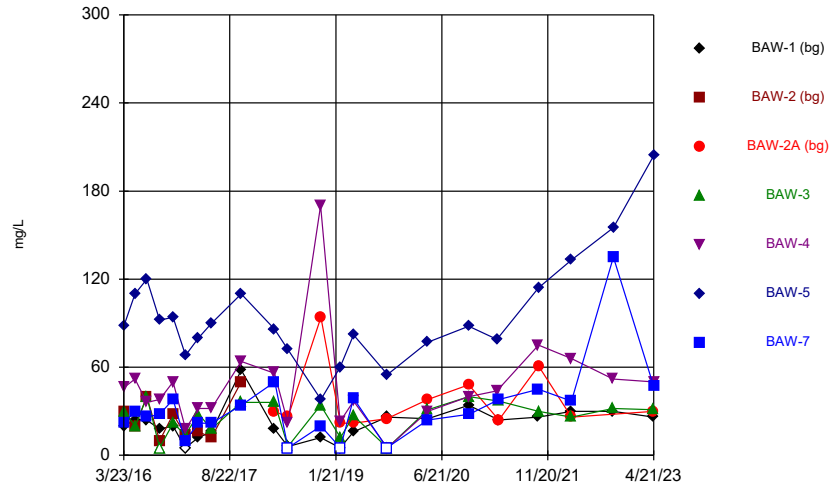
Constituent: Sulfate Analysis Run 6/7/2023 8:54 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



Constituent: Thallium Analysis Run 6/7/2023 8:54 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Time Series



Constituent: Total Dissolved Solids Analysis Run 6/7/2023 8:54 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

# Time Series

Constituent: Antimony (mg/L) Analysis Run 6/7/2023 8:55 AM

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3  | BAW-4  | BAW-5  | BAW-7  |
|------------|------------|------------|-------------|--------|--------|--------|--------|
| 3/23/2016  | <0.002     | <0.0025    |             | <0.002 | <0.002 | <0.002 | <0.002 |
| 5/17/2016  | <0.002     |            |             |        | <0.002 | <0.002 | <0.002 |
| 5/18/2016  |            | <0.0025    |             | <0.002 |        |        |        |
| 7/12/2016  | <0.002     |            |             |        |        |        | <0.002 |
| 7/13/2016  |            | <0.0025    |             | <0.002 | <0.002 | <0.002 |        |
| 9/13/2016  | <0.002     |            |             |        |        | <0.002 | <0.002 |
| 9/14/2016  |            | <0.0025    |             | <0.002 | <0.002 |        |        |
| 11/19/2016 | <0.002     | <0.0025    |             | <0.002 | <0.002 | <0.002 | <0.002 |
| 1/17/2017  | <0.002     | <0.0025    |             | <0.002 |        |        | <0.002 |
| 1/18/2017  |            |            |             |        | <0.002 | <0.002 |        |
| 3/22/2017  | <0.002     |            |             |        |        |        | <0.002 |
| 3/23/2017  |            | <0.0025    |             | <0.002 | <0.002 | <0.002 |        |
| 5/24/2017  | <0.002     | <0.0025    |             | <0.002 | <0.002 | <0.002 | <0.002 |
| 3/28/2018  | <0.002     |            | <0.002      | <0.002 | <0.002 | <0.002 |        |
| 3/29/2018  |            |            |             |        |        |        | <0.002 |
| 11/8/2018  | 0.0013 (J) |            |             | <0.002 | <0.002 |        |        |
| 11/9/2018  |            |            | <0.002      |        |        | <0.002 | <0.002 |
| 2/11/2019  | <0.002     |            |             |        | <0.002 | <0.002 |        |
| 2/12/2019  |            |            | <0.002      | <0.002 |        |        | <0.002 |
| 4/17/2019  | <0.002     |            | <0.002      | <0.002 | <0.002 | <0.002 |        |
| 4/18/2019  |            |            |             |        |        |        | <0.002 |
| 2/21/2020  | <0.002     |            | <0.002      | <0.002 |        |        | <0.002 |
| 2/22/2020  |            |            |             |        | <0.002 | <0.002 |        |
| 10/30/2020 | <0.002     |            | <0.002      | <0.002 | <0.002 | <0.002 |        |
| 11/2/2020  |            |            |             |        |        |        | <0.002 |
| 3/17/2021  |            |            |             |        | <0.002 | <0.002 |        |
| 3/26/2021  | <0.002     |            | <0.002      | <0.002 |        |        | <0.002 |
| 10/5/2021  | <0.002     |            |             |        | <0.002 |        | <0.002 |
| 10/6/2021  |            |            | <0.002      | <0.002 |        | <0.002 |        |
| 3/16/2022  | <0.002     |            | <0.002      | <0.002 | <0.002 | <0.002 | <0.002 |
| 10/5/2022  | <0.002     |            |             | <0.002 | <0.002 |        |        |
| 10/6/2022  |            |            |             |        |        | <0.002 | <0.002 |
| 4/20/2023  | <0.002     |            | <0.002      | <0.002 |        |        |        |
| 4/21/2023  |            |            |             |        | <0.002 | <0.002 | <0.002 |

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/7/2023 8:55 AM  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3  | BAW-4        | BAW-5       | BAW-7       |
|------------|------------|------------|-------------|--------|--------------|-------------|-------------|
| 3/23/2016  | <0.001     | <0.0013    |             | <0.001 | 0.00087 (J)  | 0.0033      | <0.001      |
| 5/17/2016  | <0.001     |            |             |        | <0.0013      | 0.00089 (J) | <0.001      |
| 5/18/2016  |            | <0.0013    |             | <0.001 |              |             |             |
| 7/12/2016  | <0.001     |            |             |        |              |             | <0.001      |
| 7/13/2016  |            | <0.0013    |             | <0.001 | 0.00081 (J)  | 0.0039      |             |
| 9/13/2016  | <0.001     |            |             |        |              | 0.0039      | <0.001      |
| 9/14/2016  |            | <0.0013    |             | <0.001 | 0.00069 (J)  |             |             |
| 11/19/2016 | <0.001     | <0.0013    |             | <0.001 | 0.0013       | 0.0037      | 0.0005 (J)  |
| 1/17/2017  | <0.001     | <0.0013    |             | <0.001 |              |             | <0.001      |
| 1/18/2017  |            |            |             |        | <0.0013      | 0.0016      |             |
| 3/22/2017  | <0.001     |            |             |        |              |             | 0.00052 (J) |
| 3/23/2017  |            | <0.0013    |             | <0.001 | 0.00078 (J)  | 0.0017      |             |
| 5/24/2017  | <0.001     | <0.0013    |             | <0.001 | 0.001 (J)    | 0.0021      | <0.001      |
| 3/28/2018  | <0.001     |            | <0.001      | <0.001 | <0.0013      | 0.0011 (J)  |             |
| 3/29/2018  |            |            |             |        |              |             | <0.001      |
| 6/2/2018   | <0.001     |            | <0.001      | <0.001 | 0.00068 (J)  | 0.0017      | <0.001      |
| 11/8/2018  | <0.001     |            |             | <0.001 | <0.0013      |             |             |
| 11/9/2018  |            |            | <0.001      |        |              | 0.0021      | <0.001      |
| 2/11/2019  | <0.001     |            |             |        | 0.000737 (J) | 0.00232     |             |
| 2/12/2019  |            |            | <0.001      | <0.001 |              |             | <0.001      |
| 4/17/2019  | <0.001     |            | <0.001      | <0.001 | 0.000645 (J) | 0.00218     |             |
| 4/18/2019  |            |            |             |        |              |             | <0.001      |
| 9/27/2019  | <0.001     |            | <0.001      |        |              |             | <0.001      |
| 9/30/2019  |            |            |             | <0.001 | 0.000821 (J) | 0.00272     |             |
| 2/21/2020  | <0.001     |            | <0.001      | <0.001 |              |             | <0.001      |
| 2/22/2020  |            |            |             |        | 0.000837 (J) | 0.00177     |             |
| 4/14/2020  | <0.001     |            | <0.001      | <0.001 | 0.000896 (J) | 0.00177     | <0.001      |
| 10/30/2020 | <0.001     |            | <0.001      | <0.001 | 0.000529 (J) | 0.0013      |             |
| 11/2/2020  |            |            |             |        |              |             | <0.001      |
| 3/17/2021  |            |            |             |        | 0.000454 (J) | 0.00385     |             |
| 3/26/2021  | <0.001     |            | <0.001      | <0.001 |              |             | <0.001      |
| 10/5/2021  | <0.001     |            |             |        | 0.00259      |             | <0.001      |
| 10/6/2021  |            |            | <0.001      | <0.001 |              | 0.0125      |             |
| 3/16/2022  | <0.001     |            | <0.001      | <0.001 | 0.00411      | 0.0101      | <0.001      |
| 10/5/2022  | <0.001     |            |             | <0.001 | 0.00467      |             |             |
| 10/6/2022  |            |            |             |        |              | 0.0108      | <0.001      |
| 4/20/2023  | <0.001     |            | <0.001      | <0.001 |              |             |             |
| 4/21/2023  |            |            |             |        | 0.00477      | 0.00683     | <0.001      |

# Time Series

Constituent: Barium (mg/L) Analysis Run 6/7/2023 8:55 AM  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg)  | BAW-2 (bg) | BAW-2A (bg) | BAW-3  | BAW-4       | BAW-5  | BAW-7  |
|------------|-------------|------------|-------------|--------|-------------|--------|--------|
| 3/23/2016  | 0.00084 (J) | 0.027      |             | 0.013  | 0.011       | 0.044  | 0.013  |
| 5/17/2016  | 0.031       |            |             |        | 0.0085      | 0.055  | 0.012  |
| 5/18/2016  |             | 0.026      |             | 0.012  |             |        |        |
| 7/12/2016  | 0.031       |            |             |        |             |        | 0.011  |
| 7/13/2016  |             | 0.024      |             | 0.016  | 0.0073      | 0.041  |        |
| 9/13/2016  | 0.036       |            |             |        |             | 0.046  | 0.012  |
| 9/14/2016  |             | 0.026      |             | 0.018  | 0.0095      |        |        |
| 11/19/2016 | 0.036       | 0.027      |             | 0.021  | 0.012       | 0.044  | 0.012  |
| 1/17/2017  | 0.036       | 0.029      |             | 0.029  |             |        | 0.014  |
| 1/18/2017  |             |            |             |        | 0.0096      | 0.045  |        |
| 3/22/2017  | 0.033       |            |             |        |             |        | 0.012  |
| 3/23/2017  |             | 0.027      |             | 0.024  | 0.0093      | 0.038  |        |
| 5/24/2017  | 0.034       | 0.028      |             | 0.022  | 0.0096      | 0.046  | 0.012  |
| 3/28/2018  | 0.032       |            | 0.036       | 0.026  | 0.0086      | 0.043  |        |
| 3/29/2018  |             |            |             |        |             |        | 0.011  |
| 6/2/2018   | 0.033       |            | 0.032       | 0.029  | 0.0087      | 0.043  | 0.011  |
| 11/8/2018  | 0.032       |            |             | 0.028  | 0.0091      |        |        |
| 11/9/2018  |             |            | 0.033       |        |             | 0.039  | 0.011  |
| 2/11/2019  | 0.0308      |            |             |        | 0.00931     | 0.0388 |        |
| 2/12/2019  |             |            | 0.0348      | 0.0274 |             |        | 0.0102 |
| 4/17/2019  | 0.0305      |            | 0.0396      | 0.0263 | 0.00888     | 0.0378 |        |
| 4/18/2019  |             |            |             |        |             |        | 0.0101 |
| 9/27/2019  | 0.0319      |            | 0.0373      |        |             |        | 0.0121 |
| 9/30/2019  |             |            |             | 0.0343 | 0.0103      | 0.0424 |        |
| 2/21/2020  | 0.0327      |            | 0.0373      | 0.0304 |             |        | 0.0117 |
| 2/22/2020  |             |            |             |        | 0.0108      | 0.0453 |        |
| 4/14/2020  | 0.0345      |            | 0.0394      | 0.0335 | 0.00949 (J) | 0.0452 | 0.0124 |
| 10/30/2020 | 0.0314      |            | 0.0334      | 0.0349 | 0.0116      | 0.0428 |        |
| 11/2/2020  |             |            |             |        |             |        | 0.0117 |
| 3/17/2021  |             |            |             |        | 0.0224      | 0.0382 |        |
| 3/26/2021  | 0.0347      |            | 0.0287      | 0.0253 |             |        | 0.0184 |
| 10/5/2021  | 0.0391      |            |             |        | 0.0283      |        | 0.02   |
| 10/6/2021  |             |            | <0.01       | 0.03   |             | 0.0493 |        |
| 3/16/2022  | 0.05        |            | 0.0314      | 0.037  | 0.0326      | 0.0688 | 0.0245 |
| 10/5/2022  | 0.0512      |            |             | 0.0415 | 0.0248      |        |        |
| 10/6/2022  |             |            |             |        |             | 0.0747 | 0.0937 |
| 4/20/2023  | 0.0347      |            | 0.0345      | 0.0369 |             |        |        |
| 4/21/2023  |             |            |             |        | 0.0223      | 0.103  | 0.0355 |

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/7/2023 8:55 AM

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg)  | BAW-3        | BAW-4  | BAW-5  | BAW-7        |
|------------|------------|------------|--------------|--------------|--------|--------|--------------|
| 3/23/2016  | <0.001     | <0.0025    |              | <0.001       | <0.001 | <0.001 | <0.001       |
| 5/17/2016  | <0.001     |            |              |              | <0.001 | <0.001 | <0.001       |
| 5/18/2016  |            | <0.0025    |              | <0.001       |        |        |              |
| 7/12/2016  | <0.001     |            |              |              |        |        | <0.001       |
| 7/13/2016  |            | <0.0025    |              | <0.001       | <0.001 | <0.001 |              |
| 9/13/2016  | <0.001     |            |              |              |        | <0.001 | <0.001       |
| 9/14/2016  |            | <0.0025    |              | <0.001       | <0.001 |        |              |
| 11/19/2016 | <0.001     | <0.0025    |              | <0.001       | <0.001 | <0.001 | <0.001       |
| 1/17/2017  | <0.001     | <0.0025    |              | <0.001       |        |        | <0.001       |
| 1/18/2017  |            |            |              |              | <0.001 | <0.001 |              |
| 3/22/2017  | <0.001     |            |              |              |        |        | <0.001       |
| 3/23/2017  |            | <0.0025    |              | <0.001       | <0.001 | <0.001 |              |
| 5/24/2017  | <0.001     | <0.0025    |              | <0.001       | <0.001 | <0.001 | <0.001       |
| 3/28/2018  | <0.001     |            | <0.001       | <0.001       | <0.001 | <0.001 |              |
| 3/29/2018  |            |            |              |              |        |        | <0.001       |
| 11/8/2018  | <0.001     |            |              | <0.001       | <0.001 |        |              |
| 11/9/2018  |            |            | <0.001       |              |        | <0.001 | <0.001       |
| 2/11/2019  | <0.001     |            |              |              | <0.001 | <0.001 |              |
| 2/12/2019  |            |            | <0.001       | <0.001       |        |        | <0.001       |
| 4/17/2019  | <0.001     |            | <0.001       | <0.001       | <0.001 | <0.001 |              |
| 4/18/2019  |            |            |              |              |        |        | <0.001       |
| 2/21/2020  | <0.001     |            | 0.000207 (J) | <0.001       |        |        | <0.001       |
| 2/22/2020  |            |            |              |              | <0.001 | <0.001 |              |
| 4/14/2020  | <0.001     |            | <0.001       | <0.001       | <0.001 | <0.001 | <0.001       |
| 10/30/2020 | <0.001     |            | <0.001       | <0.001       | <0.001 | <0.001 |              |
| 11/2/2020  |            |            |              |              |        |        | <0.001       |
| 3/17/2021  |            |            |              |              | <0.001 | <0.001 |              |
| 3/26/2021  | <0.001     |            | <0.001       | <0.001       |        |        | <0.001       |
| 10/5/2021  | <0.001     |            |              |              | <0.001 |        | 0.000185 (J) |
| 10/6/2021  |            |            | <0.001       | <0.001       |        | <0.001 |              |
| 3/16/2022  | <0.001     |            | <0.001       | <0.001       | <0.001 | <0.001 | <0.001       |
| 10/5/2022  | <0.001     |            |              | <0.001       | <0.001 |        |              |
| 10/6/2022  |            |            |              |              |        | <0.001 | <0.001       |
| 4/20/2023  | <0.001     |            | <0.001       | 0.000225 (J) |        |        |              |
| 4/21/2023  |            |            |              |              | <0.001 | <0.001 | <0.001       |



# Time Series

Constituent: Boron (mg/L) Analysis Run 6/7/2023 8:55 AM

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3 | BAW-4      | BAW-5 | BAW-7 |
|------------|------------|------------|-------------|-------|------------|-------|-------|
| 3/23/2016  | <0.08      | <0.05      |             | <0.08 | 0.037 (J)  | 0.22  | <0.08 |
| 5/17/2016  | <0.08      |            |             |       | <0.08      | 0.35  | <0.08 |
| 5/18/2016  |            | <0.05      |             | <0.08 |            |       |       |
| 7/12/2016  | <0.08      |            |             |       |            |       | <0.08 |
| 7/13/2016  |            | <0.05      |             | <0.08 | 0.032 (J)  | 0.5   |       |
| 9/13/2016  | <0.08      |            |             |       |            | 0.27  | <0.08 |
| 9/14/2016  |            | <0.05      |             | <0.08 | 0.027 (J)  |       |       |
| 11/19/2016 | <0.08      | <0.05      |             | <0.08 | 0.024 (J)  | 0.19  | <0.08 |
| 1/17/2017  | <0.08      | <0.05      |             | <0.08 |            |       | <0.08 |
| 1/18/2017  |            |            |             |       | <0.08      | 0.19  |       |
| 3/22/2017  | <0.08      |            |             |       |            |       | <0.08 |
| 3/23/2017  |            | <0.05      |             | <0.08 | 0.024 (J)  | 0.19  |       |
| 5/24/2017  | <0.08      | <0.05      |             | <0.08 | 0.027 (J)  | 0.22  | <0.08 |
| 10/16/2017 | <0.08      | <0.05      |             | <0.08 | 0.03 (J)   | 0.19  | <0.08 |
| 3/28/2018  | <0.08      |            | <0.08       | <0.08 | <0.08      | 0.17  |       |
| 3/29/2018  |            |            |             |       |            |       | <0.08 |
| 6/2/2018   | <0.08      |            | <0.08       | <0.08 | 0.025 (J)  | 0.16  | <0.08 |
| 11/8/2018  | <0.08      |            |             | <0.08 | 0.024 (J)  |       |       |
| 11/9/2018  |            |            | <0.08       |       |            | 0.13  | <0.08 |
| 2/11/2019  | <0.08      |            |             |       | <0.08      | 0.126 |       |
| 2/12/2019  |            |            | <0.08       | <0.08 |            |       | <0.08 |
| 4/17/2019  | <0.08      |            | <0.08       | <0.08 | <0.08      | 0.118 |       |
| 4/18/2019  |            |            |             |       |            |       | <0.08 |
| 9/27/2019  | <0.08      |            | <0.08       |       |            |       | <0.08 |
| 9/30/2019  |            |            |             | <0.08 | <0.08      | 0.14  |       |
| 2/21/2020  | 0.0928     |            | 0.0589 (J)  | <0.08 |            |       | <0.08 |
| 2/22/2020  |            |            |             |       | <0.08      | 0.193 |       |
| 4/14/2020  | <0.08      |            | 0.0424 (J)  | <0.08 | <0.08      | 0.209 | <0.08 |
| 10/30/2020 | <0.08      |            | 0.0495 (J)  | <0.08 | <0.08      | 0.194 |       |
| 11/2/2020  |            |            |             |       |            |       | <0.08 |
| 3/17/2021  |            |            |             |       | 0.0673 (J) | 0.2   |       |
| 3/26/2021  | <0.08      |            | <0.08       | <0.08 |            |       | 0.647 |
| 10/5/2021  | <0.08      |            |             |       | 0.168      |       | 0.281 |
| 10/6/2021  |            |            | <0.08       | <0.08 |            | 0.272 |       |
| 3/16/2022  | <0.08      |            | 0.0717 (J)  | <0.08 | 0.084      | 0.695 | 0.247 |
| 10/5/2022  | <0.08      |            |             | <0.08 | 0.0714 (J) |       |       |
| 10/6/2022  |            |            |             |       |            | 0.631 | 1.82  |
| 4/20/2023  | <0.08      |            | 0.0711 (J)  | <0.08 |            |       |       |
| 4/21/2023  |            |            |             |       | 0.058 (J)  | 0.831 | 0.271 |

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/7/2023 8:55 AM

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg)  | BAW-3        | BAW-4  | BAW-5        | BAW-7  |
|------------|------------|------------|--------------|--------------|--------|--------------|--------|
| 3/23/2016  | <0.001     | <0.0025    |              | 0.00041 (J)  | <0.001 | <0.001       | <0.001 |
| 5/17/2016  | <0.001     |            |              |              | <0.001 | <0.001       | <0.001 |
| 5/18/2016  |            | <0.0025    |              | <0.0025      |        |              |        |
| 7/12/2016  | <0.001     |            |              |              |        |              | <0.001 |
| 7/13/2016  |            | <0.0025    |              | 0.00087 (J)  | <0.001 | <0.001       |        |
| 9/13/2016  | <0.001     |            |              |              |        | <0.001       | <0.001 |
| 9/14/2016  |            | <0.0025    |              | 0.00078 (J)  | <0.001 |              |        |
| 11/19/2016 | <0.001     | <0.0025    |              | 0.00054 (J)  | <0.001 | <0.001       | <0.001 |
| 1/17/2017  | <0.001     | <0.0025    |              | 0.00048 (J)  |        |              | <0.001 |
| 1/18/2017  |            |            |              |              | <0.001 | <0.001       |        |
| 3/22/2017  | <0.001     |            |              |              |        |              | <0.001 |
| 3/23/2017  |            | <0.0025    |              | 0.00059 (J)  | <0.001 | <0.001       |        |
| 5/24/2017  | <0.001     | <0.0025    |              | 0.00081 (J)  | <0.001 | <0.001       | <0.001 |
| 3/28/2018  | <0.001     |            | <0.001       | 0.0008 (J)   | <0.001 | <0.001       |        |
| 3/29/2018  |            |            |              |              |        |              | <0.001 |
| 6/2/2018   | <0.001     |            | <0.001       | 0.001 (J)    | <0.001 | <0.001       | <0.001 |
| 11/8/2018  | <0.001     |            |              | 0.00085 (J)  | <0.001 |              |        |
| 11/9/2018  |            |            | <0.001       |              |        | <0.001       | <0.001 |
| 2/11/2019  | <0.001     |            |              |              | <0.001 | <0.001       |        |
| 2/12/2019  |            |            | 0.000143 (J) | 0.000877 (J) |        |              | <0.001 |
| 4/17/2019  | <0.001     |            | <0.001       | 0.000915 (J) | <0.001 | <0.001       |        |
| 4/18/2019  |            |            |              |              |        |              | <0.001 |
| 9/27/2019  | <0.001     |            | <0.001       |              |        |              | <0.001 |
| 9/30/2019  |            |            |              | 0.00112 (J)  | <0.001 | 0.000155 (J) |        |
| 2/21/2020  | <0.001     |            | <0.001       | 0.000962 (J) |        |              | <0.001 |
| 2/22/2020  |            |            |              |              | <0.001 | <0.001       |        |
| 4/14/2020  | <0.001     |            | <0.001       | 0.00107 (J)  | <0.001 | <0.001       | <0.001 |
| 10/30/2020 | <0.001     |            | <0.001       | 0.00084 (J)  | <0.001 | <0.001       |        |
| 11/2/2020  |            |            |              |              |        |              | <0.001 |
| 3/17/2021  |            |            |              |              | <0.001 | <0.001       |        |
| 3/26/2021  | <0.001     |            | <0.001       | 0.000615 (J) |        |              | <0.001 |
| 10/5/2021  | <0.001     |            |              |              | <0.001 |              | <0.001 |
| 10/6/2021  |            |            | <0.001       | 0.000338 (J) |        | <0.001       |        |
| 3/16/2022  | <0.001     |            | <0.001       | 0.000252 (J) | <0.001 | <0.001       | <0.001 |
| 10/5/2022  | <0.001     |            |              | 0.000379 (J) | <0.001 |              |        |
| 10/6/2022  |            |            |              |              |        | <0.001       | <0.001 |
| 4/20/2023  | <0.001     |            | <0.001       | 0.0004 (J)   |        |              |        |
| 4/21/2023  |            |            |              |              | <0.001 | <0.001       | <0.001 |

# Time Series

Constituent: Calcium (mg/L) Analysis Run 6/7/2023 8:55 AM  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|------------|------------|-------------|-------|-------|-------|-------|
| 3/23/2016  | <0.25      | 2.6 (o)    |             | 1.1   | 3.7   | 18    | 0.65  |
| 5/17/2016  | 0.84       |            |             |       | 3.4   | 23    | 0.68  |
| 5/18/2016  |            | 1.3        |             | 0.56  |       |       |       |
| 7/12/2016  | 0.79       |            |             |       |       |       | 0.62  |
| 7/13/2016  |            | 1.1        |             | 0.95  | 2.8   | 18    |       |
| 9/13/2016  | 0.42       |            |             |       |       | 19    | 0.25  |
| 9/14/2016  |            | 1.1        |             | 0.4   | 2.6   |       |       |
| 11/19/2016 | 1.2        | 1          |             | 0.62  | 2.7   | 17    | 0.36  |
| 1/17/2017  | 1.4        | 0.87       |             | 1.2   |       |       | 0.66  |
| 1/18/2017  |            |            |             |       | 3.1   | 17    |       |
| 3/22/2017  | 0.95       |            |             |       |       |       | 0.65  |
| 3/23/2017  |            | 0.74       |             | 0.87  | 2.8   | 15    |       |
| 5/24/2017  | 1.3        | 0.84       |             | 0.81  | 3.1   | 19    | 0.72  |
| 10/16/2017 | 0.93       | 0.76       |             | 0.86  | 3.3   | 17    | 0.7   |
| 3/28/2018  | 1          |            | 2.8         | 0.97  | 2.7   | 16    |       |
| 3/29/2018  |            |            |             |       |       |       | 0.55  |
| 6/2/2018   | 0.93       |            | 0.71        | 0.86  | 2.9   | 15    | 0.6   |
| 11/8/2018  | 1          |            |             | 0.84  | 3     |       |       |
| 11/9/2018  |            |            | 0.61        |       |       | 14    | 0.59  |
| 2/11/2019  | 1          |            |             |       | 2.88  | 12.8  |       |
| 2/12/2019  |            |            | 0.757       | 0.856 |       |       | 0.608 |
| 4/17/2019  | 0.893      |            | 0.755       | 0.711 | 2.77  | 13    |       |
| 4/18/2019  |            |            |             |       |       |       | 0.55  |
| 9/27/2019  | 0.8        |            | 0.663       |       |       |       | 0.598 |
| 9/30/2019  |            |            |             | 0.826 | 3.08  | 13.6  |       |
| 2/21/2020  | 1.02       |            | 0.648       | 0.841 |       |       | 0.552 |
| 2/22/2020  |            |            |             |       | 3.86  | 15    |       |
| 4/14/2020  | 0.887      |            | 0.67        | 0.811 | 2.95  | 15.7  | 0.532 |
| 10/30/2020 | 0.945      |            | 0.672       | 1     | 3.84  | 16.4  |       |
| 11/2/2020  |            |            |             |       |       |       | 0.535 |
| 3/17/2021  |            |            |             |       | 6.69  | 15.3  |       |
| 3/26/2021  | 0.965      |            | 0.644       | 0.937 |       |       | 0.848 |
| 10/5/2021  | 0.996      |            |             |       | 8.57  |       | 0.829 |
| 10/6/2021  |            |            | <0.5        | 0.532 |       | 22.8  |       |
| 3/16/2022  | 1.32       |            | 0.539       | 0.78  | 8.94  | 23.8  | 1.28  |
| 10/5/2022  | 1.42       |            |             | 0.647 | 5.81  |       |       |
| 10/6/2022  |            |            |             |       |       | 28.2  | 4.84  |
| 4/20/2023  | 0.996      |            | 0.685       | 0.789 |       |       |       |
| 4/21/2023  |            |            |             |       | 4.87  | 26.8  | 2.56  |

# Time Series

Constituent: Chloride (mg/L) Analysis Run 6/7/2023 8:55 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|------------|------------|-------------|-------|-------|-------|-------|
| 3/23/2016  | 6.5        | 5.1        |             | 7.3   | 7.6   | 9     | 6.5   |
| 5/17/2016  | 4.9        |            |             |       | 6.4   | 13    | 5.1   |
| 5/18/2016  |            | 4.2        |             | 6     |       |       |       |
| 7/12/2016  | 5.3        |            |             |       |       |       | 5     |
| 7/13/2016  |            | 4.7        |             | 6.6   | 6.3   | 10    |       |
| 9/13/2016  | 4.8 (F1)   |            |             |       |       | 7.9   | 5.1   |
| 9/14/2016  |            | 4.5        |             | 5.8   | 6     |       |       |
| 11/19/2016 | 7.1        | 6.1        |             | 7.8   | 7     | 9.3   | 6.5   |
| 1/17/2017  | 5.8        | 5.4        |             | 8.4   |       |       | 5.9   |
| 1/18/2017  |            |            |             |       | 6.7   | 8.5   |       |
| 3/22/2017  | 4.9        |            |             |       |       |       | 5.1   |
| 3/23/2017  |            | 5.1        |             | 6.8   | 6     | 8.5   |       |
| 5/24/2017  | 5.9        | 5.5        |             | 7.9   | 7.4   | 11    | 5.9   |
| 10/16/2017 | 5.7        | 6.1        |             | 7.7   | 6.6   | 9.7   | 5.6   |
| 3/28/2018  | 5.7        |            | 6.7         | 7.9   | 6.5   | 8.8   |       |
| 3/29/2018  |            |            |             |       |       |       | 5.3   |
| 6/2/2018   | 4.7        |            | 5.8         | 7.7   | 6.1   | 8.3   | 4.6   |
| 11/8/2018  | 5.6        |            |             | 8.5   | 6.6   |       |       |
| 11/9/2018  |            |            | 7.2         |       |       | 9.7   | 4.9   |
| 2/11/2019  | 4.84       |            |             |       | 6.31  | 8.84  |       |
| 2/12/2019  |            |            | 8.4         | 7.89  |       |       | 4.72  |
| 4/17/2019  | 4.99       |            | 8.03        | 7.71  | 6.68  | 9.24  |       |
| 4/18/2019  |            |            |             |       |       |       | 4.64  |
| 9/27/2019  | 5.08       |            | 8.37        |       |       |       | 5.02  |
| 9/30/2019  |            |            |             | 7.07  | 5.45  | 8.59  |       |
| 4/14/2020  | 4.91       |            | 7.57        | 8.75  | 5.93  | 8.71  | 4.68  |
| 10/30/2020 | 5.55       |            | 7.59        | 9.58  | 6.49  | 8.93  |       |
| 11/2/2020  |            |            |             |       |       |       | 4.91  |
| 3/17/2021  |            |            |             |       | 7.55  | 9.6   |       |
| 3/26/2021  | 5.92       |            | 6.21        | 8.32  |       |       | 8.5   |
| 10/5/2021  | 6.21       |            |             |       | 14.3  |       | 10.3  |
| 10/6/2021  |            |            | 16.4        | 6.8   |       | 5.44  |       |
| 3/16/2022  | 7.85       |            | 11.5        | 7.94  | 17.9  | 10.6  | 13    |
| 10/5/2022  | 6.75       |            |             | 6.04  | 8.84  |       |       |
| 10/6/2022  |            |            |             |       |       | 9.04  | 12.7  |
| 4/20/2023  | 5.22       |            | 9.6         | 5.36  |       |       |       |
| 4/21/2023  |            |            |             |       | 6.78  | 11.3  | 8.95  |

# Time Series

Constituent: Chromium (mg/L) Analysis Run 6/7/2023 8:55 AM  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3       | BAW-4      | BAW-5      | BAW-7       |
|------------|------------|------------|-------------|-------------|------------|------------|-------------|
| 3/23/2016  | <0.002     | <0.0025    |             | <0.002      | 0.0015 (J) | 0.0012 (J) | <0.002      |
| 5/17/2016  | <0.002     |            |             |             | <0.002     | <0.002     | <0.002      |
| 5/18/2016  |            | <0.0025    |             | <0.002      |            |            |             |
| 7/12/2016  | <0.002     |            |             |             |            |            | <0.002      |
| 7/13/2016  |            | 0.0028     |             | 0.003       | 0.0015 (J) | 0.0024 (J) |             |
| 9/13/2016  | <0.002     |            |             |             |            | <0.002     | <0.002      |
| 9/14/2016  |            | 0.0014 (J) |             | <0.002      | <0.002     |            |             |
| 11/19/2016 | <0.002     | <0.0025    |             | <0.002      | 0.0011 (J) | <0.002     | <0.002      |
| 1/17/2017  | <0.002     | <0.0025    |             | <0.002      |            |            | <0.002      |
| 1/18/2017  |            |            |             |             | <0.002     | <0.002     |             |
| 3/22/2017  | <0.002     |            |             |             |            |            | <0.002      |
| 3/23/2017  |            | <0.0025    |             | <0.002      | <0.002     | <0.002     |             |
| 5/24/2017  | <0.002     | <0.0025    |             | <0.002      | <0.002     | <0.002     | <0.002      |
| 3/28/2018  | <0.002     |            | <0.002      | <0.002      | <0.002     | 0.005      |             |
| 3/29/2018  |            |            |             |             |            |            | <0.002      |
| 6/2/2018   | <0.002     |            | <0.002      | <0.002      | <0.002     | <0.002     | <0.002      |
| 11/8/2018  | <0.002     |            |             | <0.002      | <0.002     |            |             |
| 11/9/2018  |            |            | <0.002      |             |            | <0.002     | <0.002      |
| 2/11/2019  | <0.002     |            |             |             | <0.002     | <0.002     |             |
| 2/12/2019  |            |            | <0.002      | 0.00165 (J) |            |            | <0.002      |
| 4/17/2019  | <0.002     |            | <0.002      | <0.002      | <0.002     | <0.002     |             |
| 4/18/2019  |            |            |             |             |            |            | <0.002      |
| 9/27/2019  | 0.00286    |            | 0.00284     |             |            |            | 0.00206 (J) |
| 9/30/2019  |            |            |             | <0.002      | <0.002     | <0.002     |             |
| 2/21/2020  | <0.002     |            | <0.002      | <0.002      |            |            | <0.002      |
| 2/22/2020  |            |            |             |             | <0.002     | <0.002     |             |
| 10/30/2020 | <0.002     |            | <0.002      | <0.002      | <0.002     | <0.002     |             |
| 11/2/2020  |            |            |             |             |            |            | <0.002      |
| 3/17/2021  |            |            |             |             | <0.002     | <0.002     |             |
| 3/26/2021  | <0.002     |            | <0.002      | <0.002      |            |            | <0.002      |
| 10/5/2021  | <0.002     |            |             |             | <0.002     |            | <0.002      |
| 10/6/2021  |            |            | <0.002      | <0.002      |            | <0.002     |             |
| 3/16/2022  | <0.002     |            | <0.002      | <0.002      | <0.002     | <0.002     | <0.002      |
| 10/5/2022  | <0.002     |            |             | 0.0191      | <0.002     |            |             |
| 10/6/2022  |            |            |             |             |            | <0.002     | <0.002      |
| 4/20/2023  | <0.002     |            | <0.002      | <0.002      |            |            |             |
| 4/21/2023  |            |            |             |             | <0.002     | <0.002     | <0.002      |

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/7/2023 8:55 AM

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg)   | BAW-2 (bg)  | BAW-2A (bg)  | BAW-3   | BAW-4        | BAW-5       | BAW-7        |
|------------|--------------|-------------|--------------|---------|--------------|-------------|--------------|
| 3/23/2016  | <0.0025      | 0.00048 (J) |              | 0.0055  | 0.00094 (J)  | <0.0005     | 0.0011 (J)   |
| 5/17/2016  | 0.00099 (J)  |             |              |         | 0.0007 (J)   | <0.0005     | 0.001 (J)    |
| 5/18/2016  |              | <0.0025     |              | 0.0059  |              |             |              |
| 7/12/2016  | 0.00093 (J)  |             |              |         |              |             | 0.00091 (J)  |
| 7/13/2016  |              | 0.001 (J)   |              | 0.0048  | 0.0016 (J)   | 0.00042 (J) |              |
| 9/13/2016  | 0.0011 (J)   |             |              |         |              | <0.0005     | 0.001 (J)    |
| 9/14/2016  |              | 0.00051 (J) |              | 0.0063  | 0.0011 (J)   |             |              |
| 11/19/2016 | 0.001 (J)    | 0.0005 (J)  |              | 0.0056  | 0.0012 (J)   | <0.0005     | 0.00083 (J)  |
| 1/17/2017  | 0.00088 (J)  | 0.00049 (J) |              | 0.0046  |              |             | 0.00091 (J)  |
| 1/18/2017  |              |             |              |         | 0.0011 (J)   | <0.0005     |              |
| 3/22/2017  | 0.001 (J)    |             |              |         |              |             | 0.00098 (J)  |
| 3/23/2017  |              | 0.00057 (J) |              | 0.0049  | 0.0011 (J)   | <0.0005     |              |
| 5/24/2017  | 0.00093 (J)  | 0.00057 (J) |              | 0.0052  | 0.0012 (J)   | <0.0005     | 0.00098 (J)  |
| 3/28/2018  | 0.00092 (J)  |             | 0.00098 (J)  | 0.0063  | 0.00095 (J)  | <0.0005     |              |
| 3/29/2018  |              |             |              |         |              |             | 0.00063 (J)  |
| 6/2/2018   | 0.001 (J)    |             | 0.0009 (J)   | 0.0068  | 0.0012 (J)   | <0.0005     | 0.00087 (J)  |
| 11/8/2018  | 0.001 (J)    |             |              | 0.0068  | 0.0011 (J)   |             |              |
| 11/9/2018  |              |             | 0.00075 (J)  |         |              | <0.0005     | 0.00076 (J)  |
| 2/11/2019  | 0.000768 (J) |             |              |         | 0.00093 (J)  | <0.0005     |              |
| 2/12/2019  |              |             | 0.000896 (J) | 0.00552 |              |             | 0.000661 (J) |
| 4/17/2019  | 0.000825 (J) |             | 0.00106 (J)  | 0.00603 | 0.00116 (J)  | <0.0005     |              |
| 4/18/2019  |              |             |              |         |              |             | 0.000705 (J) |
| 9/27/2019  | 0.000783 (J) |             | 0.000885 (J) |         |              |             | 0.00071 (J)  |
| 9/30/2019  |              |             |              | 0.0062  | 0.001 (J)    | <0.0005     |              |
| 2/21/2020  | 0.00073 (J)  |             | 0.000909 (J) | 0.00576 |              |             | 0.000634 (J) |
| 2/22/2020  |              |             |              |         | 0.000907 (J) | <0.0005     |              |
| 4/14/2020  | 0.000853 (J) |             | 0.000899 (J) | 0.00633 | 0.00105 (J)  | <0.0005     | 0.000684 (J) |
| 10/30/2020 | 0.000924 (J) |             | 0.000972 (J) | 0.00657 | 0.00102 (J)  | <0.0005     |              |
| 11/2/2020  |              |             |              |         |              |             | 0.000729 (J) |
| 3/17/2021  |              |             |              |         | 0.00208      | <0.0005     |              |
| 3/26/2021  | 0.000961     |             | 0.000744     | 0.00339 |              |             | 0.000995     |
| 10/5/2021  | 0.00143      |             |              |         | 0.00187      |             | 0.00112      |
| 10/6/2021  |              |             | <0.0005      | 0.00336 |              | 0.000802    |              |
| 3/16/2022  | 0.00177      |             | 0.000658     | 0.00289 | 0.00182      | 0.000967    | 0.00141      |
| 10/5/2022  | 0.002        |             |              | 0.00821 | 0.00121      |             |              |
| 10/6/2022  |              |             |              |         |              | 0.00143     | 0.00548      |
| 4/20/2023  | 0.00142      |             | 0.000995     | 0.0083  |              |             |              |
| 4/21/2023  |              |             |              |         | 0.00142      | 0.00275     | 0.00216      |

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/7/2023 8:55 AM

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg)   | BAW-2 (bg) | BAW-2A (bg) | BAW-3       | BAW-4       | BAW-5      | BAW-7       |
|------------|--------------|------------|-------------|-------------|-------------|------------|-------------|
| 3/23/2016  | <5           | <5         |             | <5          | <5          | 0.549      | <5          |
| 5/17/2016  | 0.813        |            |             |             | <5          | 0.551      | <5          |
| 5/18/2016  |              | 0.471      |             | <5          |             |            |             |
| 7/12/2016  | -0.00163 (U) |            |             |             |             |            | 0.165 (U)   |
| 7/13/2016  |              | 0.401      |             | 0.27 (U)    | 0.0365 (U)  | 0.859      |             |
| 9/13/2016  | 0.41 (U)     |            |             |             |             | 0.367 (U)  | 0.341 (U)   |
| 9/14/2016  |              | -0.033 (U) |             | -0.0909 (U) | 0.3 (U)     |            |             |
| 11/19/2016 | 0.783        | 0.358      |             | 0.416       | <5 (U)      | <5 (U)     | <5 (U)      |
| 1/17/2017  | 0.613        | 0.799      |             | 0.412 (U)   |             |            | 0.124 (U)   |
| 1/18/2017  |              |            |             |             | 0.235 (U)   | 0.289 (U)  |             |
| 3/22/2017  | 0.241 (U)    |            |             |             |             |            | 0.0719 (U)  |
| 3/23/2017  |              | 0.182 (U)  |             | 0.0761 (U)  | 0.168 (U)   | 0.554      |             |
| 5/24/2017  | 0.325        | 0.404      |             | 0.0415 (U)  | -0.0607 (U) | 0.831      | 0.441       |
| 3/28/2018  | 0.318 (U)    |            | 0.629       | 0.398       | 0.42        | 0.458      |             |
| 3/29/2018  |              |            |             |             |             |            | 0.731       |
| 6/2/2018   | 0.222 (U)    |            | -0.478 (U)  | -0.253 (U)  | 0.0844 (U)  | 0.226 (U)  | 0.303 (U)   |
| 11/8/2018  | 0.117 (U)    |            |             | 0.343 (U)   | 0.367 (U)   |            |             |
| 11/9/2018  |              |            | 0.179 (U)   |             |             | 0.298 (U)  | 0.00226 (U) |
| 2/11/2019  | 0.493        |            |             |             | 0.0402 (U)  | 0.15 (U)   |             |
| 2/12/2019  |              |            | 0.432       | 0.581       |             |            | 0.094 (U)   |
| 4/17/2019  | 0.729        |            | 0.648       | 0.646       | 0.493       | 0.326 (U)  |             |
| 4/18/2019  |              |            |             |             |             |            | 0.48        |
| 9/27/2019  | 0.36 (U)     |            | 0.422 (U)   |             |             |            | 0.497       |
| 9/30/2019  |              |            |             | 1           | 0.404       |            |             |
| 2/21/2020  | 0.268 (U)    |            | 0.23 (U)    | 0.126 (U)   |             |            | 0.375       |
| 2/22/2020  |              |            |             |             | 0.53        | 0.47       |             |
| 4/14/2020  | 0.324 (U)    |            | 0.307 (U)   | 0.338       | 0.0408 (U)  | 0.376 (U)  | 0.329 (U)   |
| 10/30/2020 | 0.497        |            | 1.02        | 0.485       | 0.344       | 0.528      |             |
| 11/2/2020  |              |            |             |             |             |            | 0.535       |
| 3/17/2021  |              |            |             |             | 0.312 (U)   | 0.0889 (U) |             |
| 3/26/2021  | 0.804        |            | 0.526       | 0.78        |             |            | 0.813       |
| 10/5/2021  | 1.53         |            |             |             | 1.06        |            | 0.814       |
| 10/6/2021  |              |            | 0.937       | 0.503       |             | 0.931      |             |
| 3/16/2022  | 1.13         |            | 0.458       | 0.286 (U)   | 0.314 (U)   | 1.39       | 1.39        |
| 10/21/2022 | 0.946        |            |             | 1.29        | 0.562 (U)   | 1.36       | 2.03        |
| 4/20/2023  | 0.647        |            | 0.935       | 0.884       |             |            |             |
| 4/21/2023  |              |            |             |             | 0.158 (U)   | 1.73       | 0.802       |

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 6/7/2023 8:55 AM  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3      | BAW-4      | BAW-5      | BAW-7      |
|------------|------------|------------|-------------|------------|------------|------------|------------|
| 3/23/2016  | <0.1       | <0.1       |             | <0.1       | 0.04 (J)   | 0.06 (J)   | <0.1       |
| 5/17/2016  | <0.1       |            |             |            | 0.04 (J)   | 0.07 (J)   | <0.1       |
| 5/18/2016  |            | <0.1       |             | <0.1       |            |            |            |
| 7/12/2016  | <0.1       |            |             |            |            |            | <0.1       |
| 7/13/2016  |            | <0.1       |             | <0.1       | 0.05 (J)   | 0.08 (J)   |            |
| 9/13/2016  | <0.1       |            |             |            |            | 0.06 (J)   | <0.1       |
| 9/14/2016  |            | <0.1       |             | <0.1       | 0.04 (J)   |            |            |
| 11/19/2016 | <0.1       | <0.1       |             | <0.1       | 0.04 (J)   | 0.06 (J)   | <0.1       |
| 1/17/2017  | <0.1       | <0.1       |             | <0.1       |            |            | <0.1       |
| 1/18/2017  |            |            |             |            | <0.1       | 0.05 (J)   |            |
| 3/22/2017  | <0.1       |            |             |            |            |            | <0.1       |
| 3/23/2017  |            | <0.1       |             | <0.1       | <0.1       | 0.05 (J)   |            |
| 5/24/2017  | <0.1       | <0.1       |             | <0.1       | 0.04 (J)   | 0.06 (J)   | <0.1 (D)   |
| 10/16/2017 | <0.1       | <0.1       |             | <0.1       | <0.1       | 0.06 (J)   | <0.1       |
| 3/28/2018  | <0.1       |            | <0.1        | <0.1       | 0.04 (J)   | 0.06 (J)   |            |
| 3/29/2018  |            |            |             |            |            |            | <0.1       |
| 6/2/2018   | <0.1       |            | <0.1        | <0.1       | 0.05 (J)   | 0.06 (J)   | <0.1       |
| 11/8/2018  | <0.1       |            |             | <0.1       | 0.05 (J)   |            |            |
| 11/9/2018  |            |            | <0.1        |            |            | 0.06 (J)   | <0.1       |
| 2/11/2019  | <0.1       |            |             |            | <0.1       | 0.0368 (J) |            |
| 2/12/2019  |            |            | <0.1        | <0.1       |            |            | <0.1       |
| 4/17/2019  | <0.1       |            | <0.1        | <0.1       | 0.033 (J)  | 0.0421 (J) |            |
| 4/18/2019  |            |            |             |            |            |            | <0.1       |
| 9/27/2019  | <0.1       |            | 0.0313 (J)  |            |            |            | <0.1       |
| 9/30/2019  |            |            |             | <0.1       | <0.1       | 0.045 (J)  |            |
| 2/21/2020  | <0.1       |            | <0.1        | <0.1       |            |            | <0.1       |
| 2/22/2020  |            |            |             |            | 0.0317 (J) | 0.0434 (J) |            |
| 4/14/2020  | 0.0532 (J) |            | 0.0537 (J)  | 0.034 (J)  | 0.0508 (J) | 0.059 (J)  | 0.0415 (J) |
| 10/30/2020 | <0.1       |            | <0.1        | <0.1       | <0.1       | <0.1       |            |
| 11/2/2020  |            |            |             |            |            |            | <0.1       |
| 3/17/2021  |            |            |             |            | 0.0544 (J) | 0.0575 (J) |            |
| 3/26/2021  | <0.1       |            | <0.1        | <0.1       |            |            | <0.1       |
| 10/5/2021  | 0.0499 (J) |            |             |            | 0.0505 (J) |            | <0.1       |
| 10/6/2021  |            |            | <0.1        | <0.1       |            | 0.0725 (J) |            |
| 3/16/2022  | <0.1       |            | <0.1        | 0.0307 (J) | 0.0462 (J) | 0.176      | 0.0266 (J) |
| 10/5/2022  | <0.1       |            |             | <0.1       | 0.0322 (J) |            |            |
| 10/6/2022  |            |            |             |            |            | 0.0972 (J) | <0.1       |
| 4/20/2023  | <0.1       |            | 0.0278 (J)  | <0.1       |            |            |            |
| 4/21/2023  |            |            |             |            | 0.0441 (J) | 0.0665 (J) | <0.1       |



# Time Series

Constituent: Lead (mg/L) Analysis Run 6/7/2023 8:55 AM

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3        | BAW-4        | BAW-5        | BAW-7        |
|------------|------------|------------|-------------|--------------|--------------|--------------|--------------|
| 3/23/2016  | <0.001     | <0.0013    |             | <0.001       | 0.00039 (J)  | <0.001       | <0.001       |
| 5/17/2016  | <0.001     |            |             |              | <0.001       | <0.001       | <0.001       |
| 5/18/2016  |            | <0.0013    |             | <0.001       |              |              |              |
| 7/12/2016  | <0.001     |            |             |              |              |              | <0.001       |
| 7/13/2016  |            | <0.0013    |             | <0.001       | <0.001       | <0.001       |              |
| 9/13/2016  | <0.001     |            |             |              |              | <0.001       | <0.001       |
| 9/14/2016  |            | <0.0013    |             | 0.00056 (J)  | <0.001       |              |              |
| 11/19/2016 | <0.001     | <0.0013    |             | <0.001       | 0.00042 (J)  | <0.001       | <0.001       |
| 1/17/2017  | <0.001     | <0.0013    |             | <0.001       |              |              | <0.001       |
| 1/18/2017  |            |            |             |              | <0.001       | <0.001       |              |
| 3/22/2017  | <0.001     |            |             |              |              |              | <0.001       |
| 3/23/2017  |            | <0.0013    |             | 0.00038 (J)  | <0.001       | <0.001       |              |
| 5/24/2017  | <0.001     | <0.0013    |             | 0.00036 (J)  | <0.001       | <0.001       | <0.001       |
| 3/28/2018  | <0.001     |            | <0.001      | <0.001       | <0.001       | <0.001       |              |
| 3/29/2018  |            |            |             |              |              |              | <0.001       |
| 11/8/2018  | <0.001     |            |             | <0.001       | <0.001       |              |              |
| 11/9/2018  |            |            | <0.001      |              |              | <0.001       | <0.001       |
| 2/11/2019  | <0.001     |            |             |              | <0.001       | <0.001       |              |
| 2/12/2019  |            |            | <0.001      | 0.000139 (J) |              |              | <0.001       |
| 4/17/2019  | <0.001     |            | <0.001      | <0.001       | <0.001       | <0.001       |              |
| 4/18/2019  |            |            |             |              |              |              | <0.001       |
| 9/27/2019  | <0.001     |            | <0.001      |              |              |              | 0.000129 (J) |
| 9/30/2019  |            |            |             | 0.000322 (J) | 0.000191 (J) | 0.000152 (J) |              |
| 2/21/2020  | <0.001     |            | <0.001      | 0.00015 (J)  |              |              | <0.001       |
| 2/22/2020  |            |            |             |              | <0.001       | <0.001       |              |
| 4/14/2020  | <0.001     |            | <0.001      | 0.000236 (J) | <0.001       | <0.001       | <0.001       |
| 10/30/2020 | <0.001     |            | <0.001      | 0.000136 (J) | <0.001       | <0.001       |              |
| 11/2/2020  |            |            |             |              |              |              | <0.001       |
| 3/17/2021  |            |            |             |              | 0.000153 (J) | <0.001       |              |
| 3/26/2021  | <0.001     |            | <0.001      | 0.000145 (J) |              |              | <0.001       |
| 10/5/2021  | <0.001     |            |             |              | <0.001       |              | <0.001       |
| 10/6/2021  |            |            | <0.001      | <0.001       |              | <0.001       |              |
| 3/16/2022  | <0.001     |            | <0.001      | <0.001       | <0.001       | <0.001       | <0.001       |
| 10/5/2022  | <0.001     |            |             | <0.001       | <0.001       |              |              |
| 10/6/2022  |            |            |             |              |              | <0.001       | <0.001       |
| 4/20/2023  | <0.001     |            | <0.001      | <0.001       |              |              |              |
| 4/21/2023  |            |            |             |              | <0.001       | <0.001       | <0.001       |

# Time Series

Constituent: Lithium (mg/L) Analysis Run 6/7/2023 8:55 AM

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg)  | BAW-2 (bg) | BAW-2A (bg) | BAW-3       | BAW-4   | BAW-5  | BAW-7       |
|------------|-------------|------------|-------------|-------------|---------|--------|-------------|
| 3/23/2016  | <0.005      | <0.005     |             | <0.005      | 0.044   | 0.17   | <0.005      |
| 5/17/2016  | 0.0037 (J)  |            |             |             | 0.028   | 0.2    | <0.005      |
| 5/18/2016  |             | <0.005     |             | <0.005      |         |        |             |
| 7/12/2016  | 0.012 (o)   |            |             |             |         |        | <0.005      |
| 7/13/2016  |             | <0.005     |             | <0.005      | 0.026   | 0.17   |             |
| 9/13/2016  | <0.005      |            |             |             |         | 0.17   | <0.005      |
| 9/14/2016  |             | <0.005     |             | <0.005      | 0.026   |        |             |
| 11/19/2016 | <0.005      | <0.005     |             | <0.005      | 0.026   | 0.18   | 0.0035 (J)  |
| 1/17/2017  | <0.005      | <0.005     |             | <0.005      |         |        | <0.005      |
| 1/18/2017  |             |            |             |             | 0.027   | 0.2    |             |
| 3/22/2017  | <0.005      |            |             |             |         |        | <0.005      |
| 3/23/2017  |             | <0.005     |             | <0.005      | 0.024   | 0.19   |             |
| 5/24/2017  | <0.005      | <0.005     |             | <0.005      | 0.027   | 0.21   | <0.005      |
| 3/28/2018  | <0.005      |            | 0.0026 (J)  | 0.0023 (J)  | 0.021   | 0.23   |             |
| 3/29/2018  |             |            |             |             |         |        | 0.0026 (J)  |
| 6/2/2018   | 0.0017 (J)  |            | 0.0021 (J)  | 0.002 (J)   | 0.022   | 0.19   | 0.0029 (J)  |
| 11/8/2018  | 0.0023 (J)  |            |             | 0.0024 (J)  | 0.025   |        |             |
| 11/9/2018  |             |            | 0.0024 (J)  |             |         | 0.18   | 0.0027 (J)  |
| 2/11/2019  | <0.005      |            |             |             | 0.0229  | 0.161  |             |
| 2/12/2019  |             |            | <0.005      | <0.005      |         |        | <0.005      |
| 4/17/2019  | 0.00229 (J) |            | 0.00191 (J) | 0.00197 (J) | 0.0236  | 0.174  |             |
| 4/18/2019  |             |            |             |             |         |        | 0.00238 (J) |
| 9/27/2019  | 0.00346 (J) |            | <0.005      |             |         |        | 0.00375 (J) |
| 9/30/2019  |             |            |             | 0.00687     | 0.0249  | 0.166  |             |
| 2/21/2020  | <0.005      |            | <0.005      | <0.005      |         |        | <0.005      |
| 2/22/2020  |             |            |             |             | 0.0211  | 0.169  |             |
| 4/14/2020  | 0.00505     |            | <0.005      | <0.005      | 0.0224  | 0.192  | <0.005      |
| 10/30/2020 | <0.005      |            | <0.005      | <0.005      | 0.0267  | 0.194  |             |
| 11/2/2020  |             |            |             |             |         |        | <0.005      |
| 3/17/2021  |             |            |             |             | 0.0174  | 0.12   |             |
| 3/26/2021  | <0.005      |            | <0.005      | <0.005      |         |        | <0.005      |
| 10/5/2021  | <0.005      |            |             |             | 0.0127  |        | 0.0045 (J)  |
| 10/6/2021  |             |            | <0.005      | <0.005      |         | 0.0994 |             |
| 3/16/2022  | 0.00171 (J) |            | 0.00165 (J) | 0.0038 (J)  | 0.0112  | 0.0629 | 0.00437 (J) |
| 10/5/2022  | <0.005      |            |             | 0.00322 (J) | 0.00676 |        |             |
| 10/6/2022  |             |            |             |             |         | 0.0534 | 0.0123      |
| 4/20/2023  | <0.005      |            | 0.00235 (J) | 0.00309 (J) |         |        |             |
| 4/21/2023  |             |            |             |             | 0.0091  | 0.0564 | 0.0107      |

# Time Series

Constituent: Mercury (mg/L) Analysis Run 6/7/2023 8:55 AM  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg)  | BAW-2 (bg)  | BAW-2A (bg) | BAW-3        | BAW-4        | BAW-5        | BAW-7        |
|------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|
| 3/23/2016  | <0.0002     | <0.0002     |             | 8.4E-05 (JB) | 7.3E-05 (JB) | 7.4E-05 (JB) | 7.1E-05 (JB) |
| 5/17/2016  | <0.0002     |             |             |              | <0.0002      | <0.0002      | <0.0002      |
| 5/18/2016  |             | <0.0002     |             | <0.0002      |              |              |              |
| 7/12/2016  | <0.0002     |             |             |              |              |              | <0.0002      |
| 7/13/2016  |             | <0.0002     |             | <0.0002      | <0.0002      | <0.0002      |              |
| 9/13/2016  | <0.0002     |             |             |              |              | <0.0002      | <0.0002      |
| 9/14/2016  |             | <0.0002     |             | <0.0002      | <0.0002      |              |              |
| 11/19/2016 | <0.0002     | <0.0002     |             | <0.0002      | <0.0002      | <0.0002      | <0.0002      |
| 1/17/2017  | <0.0002     | <0.0002     |             | <0.0002      |              |              | <0.0002      |
| 1/18/2017  |             |             |             |              | <0.0002      | <0.0002      |              |
| 3/22/2017  | 0.00011 (J) |             |             |              |              |              | <0.0002      |
| 3/23/2017  |             | 0.00013 (J) |             | 0.00013 (J)  | 0.00013 (J)  | <0.0002      |              |
| 5/24/2017  | <0.0002     | <0.0002     |             | <0.0002      | <0.0002      | <0.0002      | <0.0002      |
| 3/28/2018  | <0.0002     |             | <0.0002     | <0.0002      | <0.0002      | <0.0002      |              |
| 3/29/2018  |             |             |             |              |              |              | <0.0002      |
| 2/11/2019  | <0.0002     |             |             |              | <0.0002      | <0.0002      |              |
| 2/12/2019  |             |             | <0.0002     | <0.0002      |              |              | <0.0002      |
| 4/17/2019  | <0.0002     |             | <0.0002     | <0.0002      | <0.0002      | <0.0002      |              |
| 4/18/2019  |             |             |             |              |              |              | <0.0002      |
| 2/21/2020  | <0.0002     |             | <0.0002     | <0.0002      |              |              | <0.0002      |
| 2/22/2020  |             |             |             |              | <0.0002      | <0.0002      |              |
| 10/30/2020 | <0.0002     |             | <0.0002     | 0.000497     | <0.0002      | <0.0002      |              |
| 11/2/2020  |             |             |             |              |              |              | <0.0002      |
| 3/17/2021  |             |             |             |              | <0.0002      | <0.0002      |              |
| 3/26/2021  | <0.0002     |             | <0.0002     | <0.0002      |              |              | 0.000235     |
| 10/5/2021  | <0.0002     |             |             |              | <0.0002      |              | 0.000151 (J) |
| 10/6/2021  |             |             | <0.0002     | <0.0002      |              | <0.0002      |              |
| 3/16/2022  | <0.0002     |             | <0.0002     | <0.0002      | <0.0002      | <0.0002      | 0.0012       |
| 10/5/2022  | <0.0002     |             |             | <0.0002      | <0.0002      |              |              |
| 10/6/2022  |             |             |             |              |              | <0.0002      | <0.0002      |
| 4/20/2023  | <0.0002     |             | <0.0002     | <0.0002      |              |              |              |
| 4/21/2023  |             |             |             |              | <0.0002      | <0.0002      | <0.0002      |

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/7/2023 8:55 AM

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-2 (bg)  | BAW-2A (bg) | BAW-3  | BAW-4        | BAW-5        | BAW-7      |
|------------|------------|-------------|-------------|--------|--------------|--------------|------------|
| 3/23/2016  | <0.005     | 0.0019 (J)  |             | <0.005 | <0.015       | 0.0026 (J)   | <0.005     |
| 5/17/2016  | <0.005     |             |             |        | <0.015       | 0.0011 (J)   | <0.005     |
| 5/18/2016  |            | 0.00096 (J) |             | <0.005 |              |              |            |
| 7/12/2016  | <0.005     |             |             |        |              |              | <0.005     |
| 7/13/2016  |            | 0.0017 (J)  |             | <0.005 | <0.015       | 0.0079 (J)   |            |
| 9/13/2016  | <0.005     |             |             |        |              | 0.0038 (J)   | <0.005     |
| 9/14/2016  |            | 0.0018 (J)  |             | <0.005 | <0.015       |              |            |
| 11/19/2016 | <0.005     | <0.015      |             | <0.005 | <0.015       | 0.0014 (J)   | <0.005     |
| 1/17/2017  | <0.005     | <0.015      |             | <0.005 |              |              | <0.005     |
| 1/18/2017  |            |             |             |        | <0.015       | 0.001 (J)    |            |
| 3/22/2017  | <0.005     |             |             |        |              |              | 0.0038 (J) |
| 3/23/2017  |            | <0.015      |             | <0.005 | <0.015       | <0.015       |            |
| 5/24/2017  | <0.005     | <0.015      |             | <0.005 | <0.015       | 0.0014 (J)   | <0.005     |
| 3/28/2018  | <0.005     |             | <0.005      | <0.005 | <0.015       | <0.015       |            |
| 3/29/2018  |            |             |             |        |              |              | <0.005     |
| 11/8/2018  | <0.005     |             |             | <0.005 | <0.015       |              |            |
| 11/9/2018  |            |             | <0.005      |        |              | <0.015       | <0.005     |
| 2/11/2019  | <0.005     |             |             |        | <0.015       | <0.015       |            |
| 2/12/2019  |            |             | <0.005      | <0.005 |              |              | <0.005     |
| 4/17/2019  | <0.005     |             | <0.005      | <0.005 | <0.015       | <0.015       |            |
| 4/18/2019  |            |             |             |        |              |              | <0.005     |
| 2/21/2020  | <0.005     |             | <0.005      | <0.005 |              |              | <0.005     |
| 2/22/2020  |            |             |             |        | 0.000616 (J) | 0.000627 (J) |            |
| 4/14/2020  | <0.005     |             | <0.005      | <0.005 | <0.015       | 0.000747 (J) | <0.005     |
| 10/30/2020 | <0.005     |             | <0.005      | <0.005 | <0.015       | <0.015       |            |
| 11/2/2020  |            |             |             |        |              |              | <0.005     |
| 3/17/2021  |            |             |             |        | 0.0032 (J)   | 0.00328 (J)  |            |
| 3/26/2021  | <0.005     |             | <0.005      | <0.005 |              |              | <0.005     |
| 10/5/2021  | <0.005     |             |             |        | 0.00109 (J)  |              | <0.005     |
| 10/6/2021  |            |             | <0.005      | <0.005 |              | 0.00364 (J)  |            |
| 3/16/2022  | <0.005     |             | <0.005      | <0.005 | 0.000916 (J) | 0.00533      | <0.005     |
| 10/5/2022  | <0.005     |             |             | <0.005 | 0.000939 (J) |              |            |
| 10/6/2022  |            |             |             |        |              | 0.00424 (J)  | <0.005     |
| 4/20/2023  | <0.005     |             | <0.005      | <0.005 |              |              |            |
| 4/21/2023  |            |             |             |        | 0.00109 (J)  | 0.00651      | <0.005     |

# Time Series

Constituent: pH (SU) Analysis Run 6/7/2023 8:55 AM

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|------------|------------|-------------|-------|-------|-------|-------|
| 3/23/2016  | 5.12       | 5.52       |             | 5.05  | 5.38  | 6.64  | 4.89  |
| 5/17/2016  | 5.23       |            |             |       | 5.32  | 6.52  | 4.92  |
| 5/18/2016  |            | 5.24       |             | 4.86  |       |       |       |
| 7/12/2016  | 5.77       |            |             |       |       |       | 4.93  |
| 7/13/2016  |            | 5.17       |             | 5.11  | 5.31  | 6.63  |       |
| 9/13/2016  | 4.98       |            |             |       |       | 6.46  | 4.76  |
| 9/14/2016  |            | 5.04       |             | 4.84  | 5.21  |       |       |
| 11/19/2016 | 4.82       | 4.88       |             | 4.74  | 5.12  | 6.38  | 4.56  |
| 1/17/2017  | 5.04       | 5.04       |             | 4.95  |       |       | 4.86  |
| 1/18/2017  |            |            |             |       | 5.22  | 6.47  |       |
| 3/22/2017  | 4.73       |            |             |       |       |       | 4.66  |
| 3/23/2017  |            | 4.66       |             | 4.66  | 5.01  | 6.19  |       |
| 5/24/2017  | 5.01       | 4.93       |             | 4.86  | 5.19  | 6.34  | 4.83  |
| 10/16/2017 | 4.59       | 4.65       |             | 4.47  | 4.96  | 6.23  | 4.53  |
| 3/28/2018  | 4.87       |            | 5.39        | 4.93  | 5.23  | 6.22  |       |
| 3/29/2018  |            |            |             |       |       |       | 4.87  |
| 6/2/2018   | 4.92       |            | 5.06        | 4.83  | 5.22  | 6.24  | 4.87  |
| 11/8/2018  | 5          |            |             | 4.83  | 5.29  |       |       |
| 11/9/2018  |            |            | 4.92        |       |       | 6.27  | 4.92  |
| 2/11/2019  | 4.7        |            |             |       | 5     | 6.08  |       |
| 2/12/2019  |            |            | 4.86        | 4.65  |       |       | 4.79  |
| 4/17/2019  | 4.9        |            | 4.79        | 4.71  | 5.13  | 6.14  |       |
| 4/18/2019  |            |            |             |       |       |       | 4.9   |
| 2/21/2020  | 4.86       |            | 4.73        | 4.55  |       |       | 4.8   |
| 2/22/2020  |            |            |             |       | 5.3   | 6.13  |       |
| 4/14/2020  | 5.23       |            | 4.87        | 4.7   | 5.45  | 6.26  | 4.94  |
| 10/30/2020 | 5          |            | 4.87        | 4.8   | 5.32  | 6.19  |       |
| 11/2/2020  |            |            |             |       |       |       | 4.92  |
| 3/17/2021  |            |            |             |       | 5.62  | 6.14  |       |
| 3/26/2021  | 4.86       |            | 4.7         | 4.54  |       |       | 4.67  |
| 10/5/2021  | 5          |            |             |       | 5.72  |       | 4.84  |
| 10/6/2021  |            |            | 4.77        | 4.63  |       | 6.03  |       |
| 3/16/2022  | 4.92       |            | 4.91        | 4.64  | 5.56  | 6.2   | 4.75  |
| 10/5/2022  | 4.91       |            |             | 4.51  | 5.57  |       |       |
| 10/6/2022  |            |            |             |       |       | 6.27  | 4.71  |
| 4/20/2023  | 4.89       |            | 4.83        | 4.49  |       |       |       |
| 4/21/2023  |            |            |             |       | 5.45  | 6.09  | 4.95  |

# Time Series

Constituent: Selenium (mg/L) Analysis Run 6/7/2023 8:55 AM

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg)  | BAW-2 (bg)  | BAW-2A (bg) | BAW-3       | BAW-4  | BAW-5       | BAW-7       |
|------------|-------------|-------------|-------------|-------------|--------|-------------|-------------|
| 3/23/2016  | <0.005      | 0.00041 (J) |             | 0.00033 (J) | <0.005 | <0.005      | <0.005      |
| 5/17/2016  | <0.005      |             |             |             | <0.005 | <0.005      | 0.00026 (J) |
| 5/18/2016  |             | <0.0013     |             | <0.005      |        |             |             |
| 7/12/2016  | <0.005      |             |             |             |        |             | <0.005      |
| 7/13/2016  |             | <0.0013     |             | 0.00041 (J) | <0.005 | <0.005      |             |
| 9/13/2016  | <0.005      |             |             |             |        | <0.005      | 0.00031 (J) |
| 9/14/2016  |             | <0.0013     |             | 0.00079 (J) | <0.005 |             |             |
| 11/19/2016 | <0.005      | <0.0013     |             | <0.005      | <0.005 | <0.005      | <0.005      |
| 1/17/2017  | <0.005      | <0.0013     |             | <0.005      |        |             | <0.005      |
| 1/18/2017  |             |             |             |             | <0.005 | <0.005      |             |
| 3/22/2017  | <0.005      |             |             |             |        |             | 0.0021      |
| 3/23/2017  |             | <0.0013     |             | <0.005      | <0.005 | <0.005      |             |
| 5/24/2017  | <0.005      | 0.00026 (J) |             | 0.00028 (J) | <0.005 | 0.00033 (J) | 0.00026 (J) |
| 3/28/2018  | <0.005      |             | 0.00024 (J) | 0.00038 (J) | <0.005 | <0.005      |             |
| 3/29/2018  |             |             |             |             |        |             | 0.00036 (J) |
| 6/2/2018   | 0.00064 (J) |             | <0.005      | 0.00031 (J) | <0.005 | <0.005      | <0.005      |
| 11/8/2018  | 0.0025      |             |             | 0.00088 (J) | <0.005 |             |             |
| 11/9/2018  |             |             | 0.00098 (J) |             |        | <0.005      | <0.005      |
| 2/11/2019  | <0.005      |             |             |             | <0.005 | <0.005      |             |
| 2/12/2019  |             |             | <0.005      | <0.005      |        |             | <0.005      |
| 4/17/2019  | <0.005      |             | <0.005      | <0.005      | <0.005 | <0.005      |             |
| 4/18/2019  |             |             |             |             |        |             | <0.005      |
| 2/21/2020  | <0.005      |             | <0.005      | <0.005      |        |             | <0.005      |
| 2/22/2020  |             |             |             |             | <0.005 | <0.005      |             |
| 10/30/2020 | <0.005      |             | <0.005      | <0.005      | <0.005 | <0.005      |             |
| 11/2/2020  |             |             |             |             |        |             | <0.005      |
| 3/17/2021  |             |             |             |             | <0.005 | <0.005      |             |
| 3/26/2021  | <0.005      |             | <0.005      | <0.005      |        |             | <0.005      |
| 10/5/2021  | <0.005      |             |             |             | <0.005 |             | <0.005      |
| 10/6/2021  |             |             | <0.005      | <0.005      |        | <0.005      |             |
| 3/16/2022  | <0.005      |             | <0.005      | <0.005      | <0.005 | <0.005      | <0.005      |
| 10/5/2022  | <0.005      |             |             | <0.005      | <0.005 |             |             |
| 10/6/2022  |             |             |             |             |        | <0.005      | <0.005      |
| 4/20/2023  | <0.005      |             | <0.005      | <0.005      |        |             |             |
| 4/21/2023  |             |             |             |             | <0.005 | <0.005      | <0.005      |

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 6/7/2023 8:55 AM  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3   | BAW-4   | BAW-5   | BAW-7   |
|------------|------------|------------|-------------|---------|---------|---------|---------|
| 3/23/2016  | <5         | <5         |             | <5      | 2.3 (J) | 4.5 (J) | <5      |
| 5/17/2016  | <5         |            |             |         | 2.3 (J) | 17      | <5      |
| 5/18/2016  |            | <5         |             | <5      |         |         |         |
| 7/12/2016  | <5         |            |             |         |         |         | <5      |
| 7/13/2016  |            | <5         |             | 1.5 (J) | 2.4 (J) | 15      |         |
| 9/13/2016  | <5         |            |             |         |         | 3.4 (J) | <5      |
| 9/14/2016  |            | <5         |             | 1.6 (J) | 2.4 (J) |         |         |
| 11/19/2016 | <5         | <5         |             | 1.8 (J) | 3.3 (J) | 3.5 (J) | 1.5 (J) |
| 1/17/2017  | <5         | <5         |             | <5      |         |         | <5      |
| 1/18/2017  |            |            |             |         | 2.3 (J) | 3.2 (J) |         |
| 3/22/2017  | <5         |            |             |         |         |         | 1.9 (J) |
| 3/23/2017  |            | 1.8 (J)    |             | 2.3 (J) | 3.2 (J) | 3.7 (J) |         |
| 5/24/2017  | <5         | 1.5 (J)    |             | 1.6 (J) | 2.4 (J) | 8.8     | <5      |
| 10/16/2017 | <5         | <5         |             | <5      | 2 (J)   | 4 (J)   | <5      |
| 3/28/2018  | <5         |            | 1.7 (J)     | 1.6 (J) | 2.4 (J) | 3.3 (J) |         |
| 3/29/2018  |            |            |             |         |         |         | <5      |
| 6/2/2018   | 1.9 (J)    |            | 3 (J)       | 2.9 (J) | 3.7 (J) | 4.3 (J) | 2.8 (J) |
| 11/8/2018  | <5         |            |             | 1.6 (J) | 2.7 (J) |         |         |
| 11/9/2018  |            |            | <5          |         |         | 2.3 (J) | <5      |
| 2/11/2019  | 0.774 (J)  |            |             |         | 2.5     | 2.64    |         |
| 2/12/2019  |            |            | 1.97        | 1.97    |         |         | 1.35    |
| 4/17/2019  | 1.43       |            | 2.82        | 2.5     | 3.15    | 3.27    |         |
| 4/18/2019  |            |            |             |         |         |         | 1.82    |
| 9/27/2019  | 1.03       |            | 2.19        |         |         |         | 1.22    |
| 9/30/2019  |            |            |             | 1.64    | 2.34    | 2.82    |         |
| 4/14/2020  | 0.928 (J)  |            | 2.71        | 1.62    | 2.99    | 4.2     | 1.18    |
| 10/30/2020 | 0.91 (J)   |            | 3.97        | 1.44    | 2.84    | 4.76    |         |
| 11/2/2020  |            |            |             |         |         |         | 1.08    |
| 3/17/2021  |            |            |             |         | 4.35    | 4.07    |         |
| 3/26/2021  | 1.49       |            | 2.04        | 3.25    |         |         | 2       |
| 10/5/2021  | 1.13       |            |             |         | 5.02    |         | 2.55    |
| 10/6/2021  |            |            | 5.37        | 5.07    |         | 14.5    |         |
| 3/16/2022  | 3.6        |            | 5.37        | 6.85    | 5.64    | 23.1    | 5.93    |
| 10/5/2022  | 1.34       |            |             | 6.07    | 4.12    |         |         |
| 10/6/2022  |            |            |             |         |         | 19.5    | 61.4    |
| 4/20/2023  | 2.6        |            | 7.32        | 8.2     |         |         |         |
| 4/21/2023  |            |            |             |         | 5       | 47.2    | 8.82    |

# Time Series

Constituent: Thallium (mg/L) Analysis Run 6/7/2023 8:55 AM  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg)  | BAW-3        | BAW-4  | BAW-5  | BAW-7        |
|------------|------------|------------|--------------|--------------|--------|--------|--------------|
| 3/23/2016  | <0.001     | <0.0005    |              | <0.001       | <0.001 | <0.001 | <0.001       |
| 5/17/2016  | <0.001     |            |              |              | <0.001 | <0.001 | <0.001       |
| 5/18/2016  |            | <0.0005    |              | <0.001       |        |        |              |
| 7/12/2016  | <0.001     |            |              |              |        |        | <0.001       |
| 7/13/2016  |            | <0.0005    |              | <0.001       | <0.001 | <0.001 |              |
| 9/13/2016  | <0.001     |            |              |              |        | <0.001 | <0.001       |
| 9/14/2016  |            | <0.0005    |              | 9.5E-05 (J)  | <0.001 |        |              |
| 11/19/2016 | <0.001     | <0.0005    |              | <0.001       | <0.001 | <0.001 | <0.001       |
| 1/17/2017  | <0.001     | <0.0005    |              | <0.001       |        |        | <0.001       |
| 1/18/2017  |            |            |              |              | <0.001 | <0.001 |              |
| 3/22/2017  | <0.001     |            |              |              |        |        | <0.001       |
| 3/23/2017  |            | <0.0005    |              | <0.001       | <0.001 | <0.001 |              |
| 5/24/2017  | <0.001     | <0.0005    |              | <0.001       | <0.001 | <0.001 | <0.001       |
| 3/28/2018  | <0.001     |            | <0.001       | <0.001       | <0.001 | <0.001 |              |
| 3/29/2018  |            |            |              |              |        |        | <0.001       |
| 11/8/2018  | <0.001     |            |              | 8.5E-05 (J)  | <0.001 |        |              |
| 11/9/2018  |            |            | <0.001       |              |        | <0.001 | <0.001       |
| 2/11/2019  | <0.001     |            |              |              | <0.001 | <0.001 |              |
| 2/12/2019  |            |            | <0.001       | <0.001       |        |        | <0.001       |
| 4/17/2019  | <0.001     |            | <0.001       | <0.001       | <0.001 | <0.001 |              |
| 4/18/2019  |            |            |              |              |        |        | <0.001       |
| 2/21/2020  | <0.001     |            | 0.000486 (J) | 0.000276 (J) |        |        | <0.001       |
| 2/22/2020  |            |            |              |              | <0.001 | <0.001 |              |
| 4/14/2020  | <0.001     |            | <0.001       | 0.000158 (J) | <0.001 | <0.001 | <0.001       |
| 10/30/2020 | <0.001     |            | <0.001       | <0.001       | <0.001 | <0.001 |              |
| 11/2/2020  |            |            |              |              |        |        | <0.001       |
| 3/17/2021  |            |            |              |              | <0.001 | <0.001 |              |
| 3/26/2021  | <0.001     |            | <0.001       | <0.001       |        |        | <0.001       |
| 10/5/2021  | <0.001     |            |              |              | <0.001 |        | 0.000153 (J) |
| 10/6/2021  |            |            | <0.001       | <0.001       |        | <0.001 |              |
| 3/16/2022  | <0.001     |            | <0.001       | <0.001       | <0.001 | <0.001 | <0.001       |
| 10/5/2022  | <0.001     |            |              | <0.001       | <0.001 |        |              |
| 10/6/2022  |            |            |              |              |        | <0.001 | <0.001       |
| 4/20/2023  | <0.001     |            | <0.001       | <0.001       |        |        |              |
| 4/21/2023  |            |            |              |              | <0.001 | <0.001 | <0.001       |



# Time Series

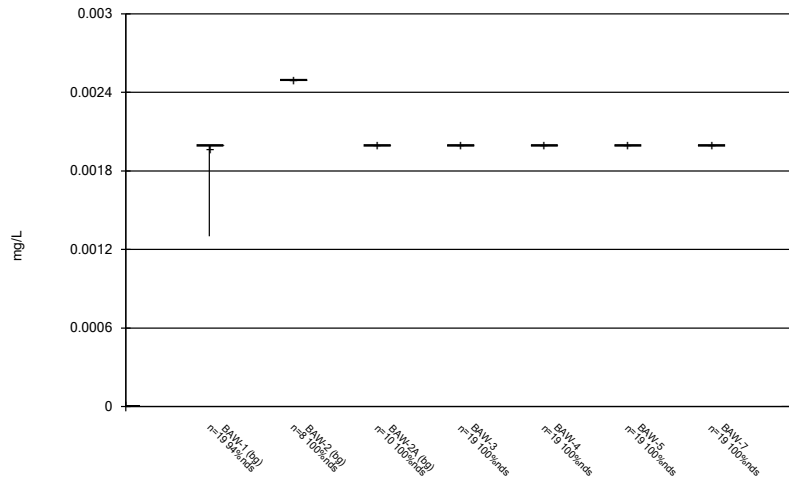
Constituent: Total Dissolved Solids (mg/L) Analysis Run 6/7/2023 8:55 AM

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|------------|------------|-------------|-------|-------|-------|-------|
| 3/23/2016  | 20         | 30         |             | 30    | 46    | 88    | 22    |
| 5/17/2016  | 24         |            |             |       | 52    | 110   | 30    |
| 5/18/2016  |            | 20         |             | 20    |       |       |       |
| 7/12/2016  | 24         |            |             |       |       |       | 26    |
| 7/13/2016  |            | 40         |             | 40    | 36    | 120   |       |
| 9/13/2016  | 18         |            |             |       |       | 92    | 28    |
| 9/14/2016  |            | 10         |             | <10   | 38    |       |       |
| 11/19/2016 | 20         | 28         |             | 22    | 50    | 94    | 38    |
| 1/17/2017  | <10        | 14         |             | 14    |       |       | 10    |
| 1/18/2017  |            |            |             |       | 18    | 68    |       |
| 3/22/2017  | 12         |            |             |       |       |       | 22    |
| 3/23/2017  |            | 16         |             | 28    | 32    | 80    |       |
| 5/24/2017  | 16 (D)     | 12         |             | 18    | 32    | 90    | 22    |
| 10/16/2017 | 58         | 50         |             | 36    | 64    | 110   | 34    |
| 3/28/2018  | 18         |            | 30          | 36    | 56    | 86    |       |
| 3/29/2018  |            |            |             |       |       |       | 50    |
| 6/2/2018   | 6          |            | 26          | 6     | 22    | 72    | <10   |
| 11/8/2018  | 12         |            |             | 34    | 170   |       |       |
| 11/9/2018  |            |            | 94          |       |       | 38    | 20    |
| 2/11/2019  | <10        |            |             |       | 23    | 60    |       |
| 2/12/2019  |            |            | 22          | 12    |       |       | <10   |
| 4/17/2019  | 16         |            | 22          | 27    | 37    | 82    |       |
| 4/18/2019  |            |            |             |       |       |       | 39    |
| 9/27/2019  | 26         |            | 25          |       |       |       | <10   |
| 9/30/2019  |            |            |             | <10   | <10   | 55    |       |
| 4/14/2020  | 25         |            | 38          | 31    | 30    | 77    | 24    |
| 10/30/2020 | 34         |            | 48          | 40    | 40    | 88    |       |
| 11/2/2020  |            |            |             |       |       |       | 28    |
| 3/17/2021  |            |            |             |       | 44    | 79    |       |
| 3/26/2021  | 24         |            | 24          | 37    |       |       | 38    |
| 10/5/2021  | 26         |            |             |       | 75    |       | 45    |
| 10/6/2021  |            |            | 61          | 30    |       | 114   |       |
| 3/16/2022  | 30         |            | 26          | 26    | 66    | 133   | 37    |
| 10/5/2022  | 30         |            |             | 32    | 52    |       |       |
| 10/6/2022  |            |            |             |       |       | 155   | 135   |
| 4/20/2023  | 26         |            | 30          | 31    |       |       |       |
| 4/21/2023  |            |            |             |       | 50    | 204   | 47    |

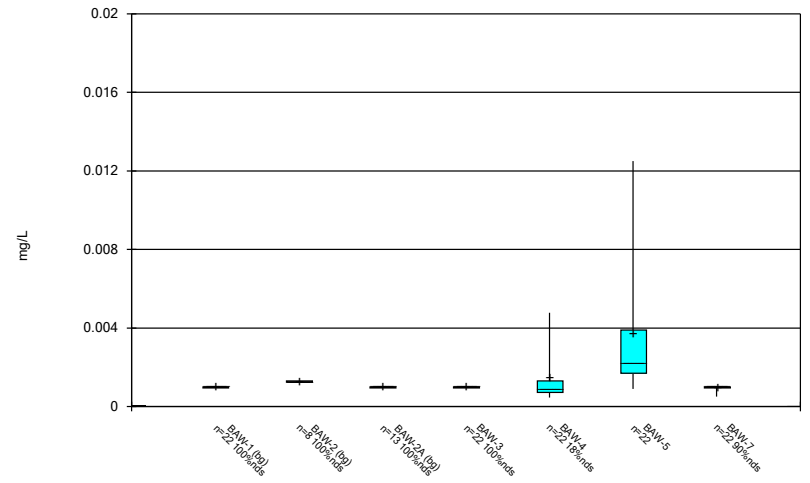
FIGURE B.

Box & Whiskers Plot



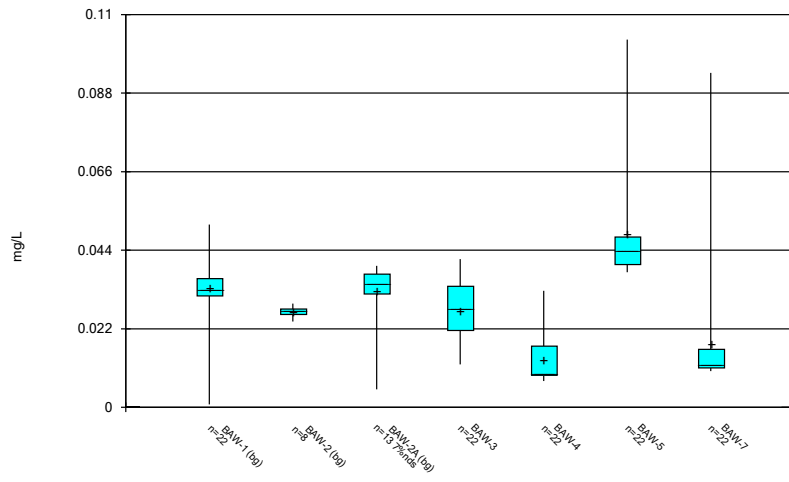
Constituent: Antimony Analysis Run 6/7/2023 8:56 AM  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



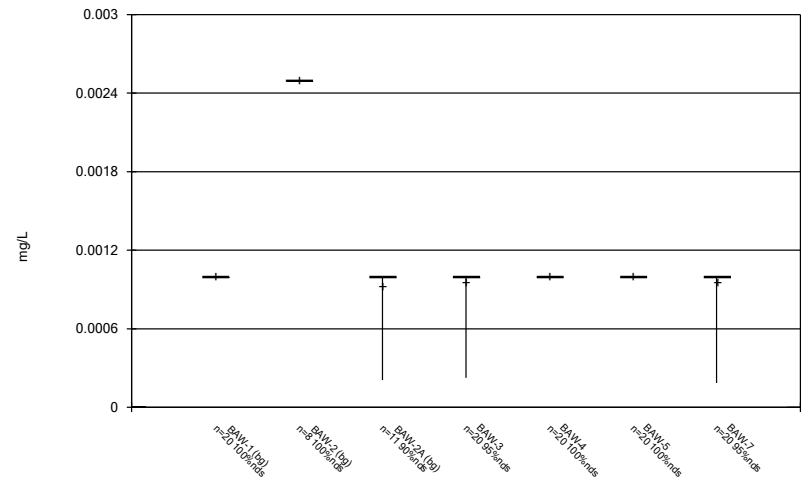
Constituent: Arsenic Analysis Run 6/7/2023 8:56 AM  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



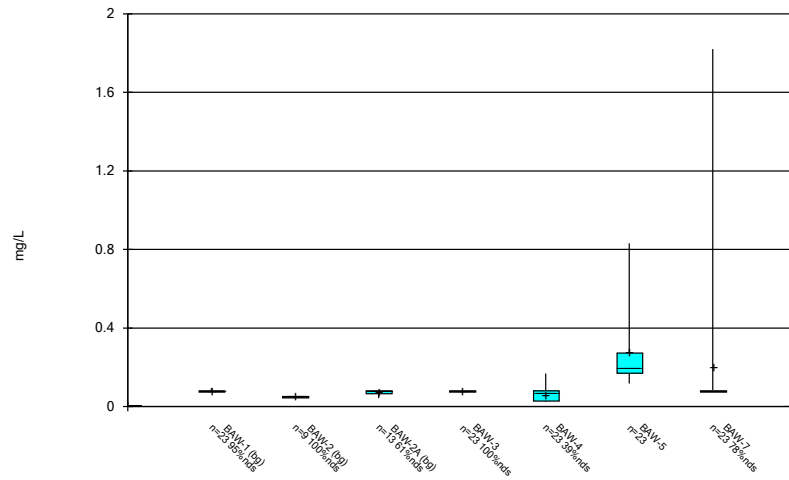
Constituent: Barium Analysis Run 6/7/2023 8:56 AM  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



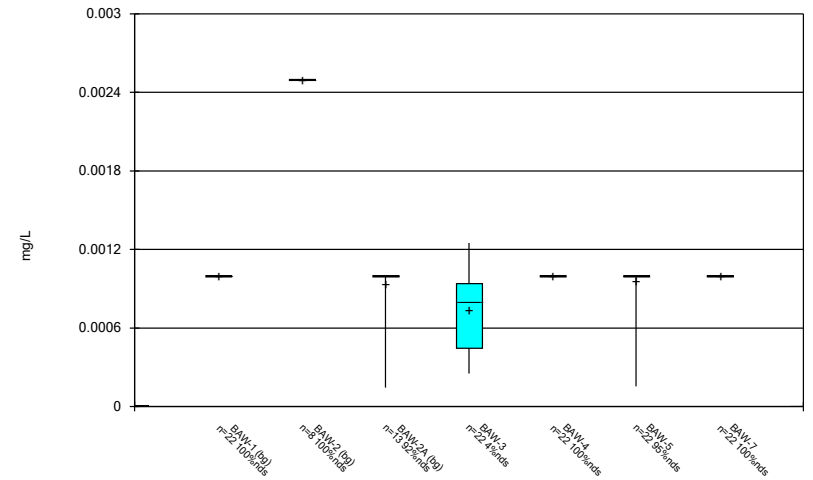
Constituent: Beryllium Analysis Run 6/7/2023 8:56 AM  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



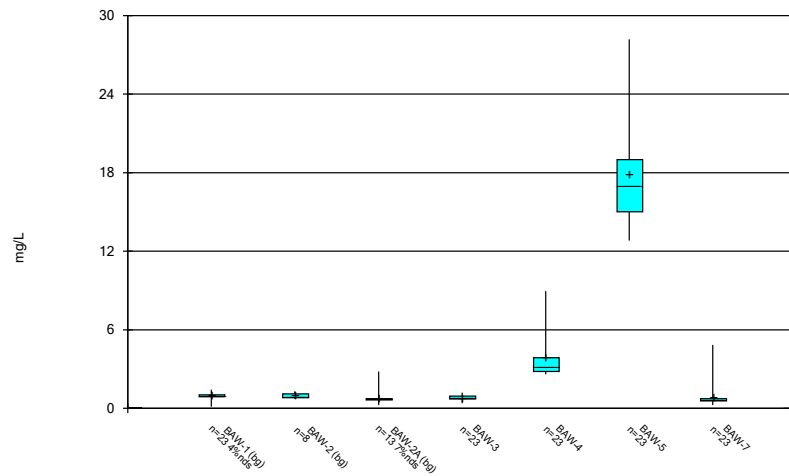
Constituent: Boron Analysis Run 6/7/2023 8:56 AM  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



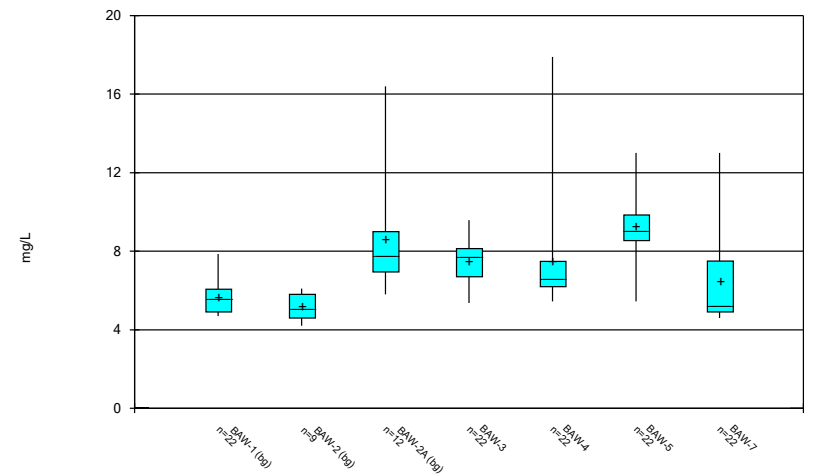
Constituent: Cadmium Analysis Run 6/7/2023 8:56 AM  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



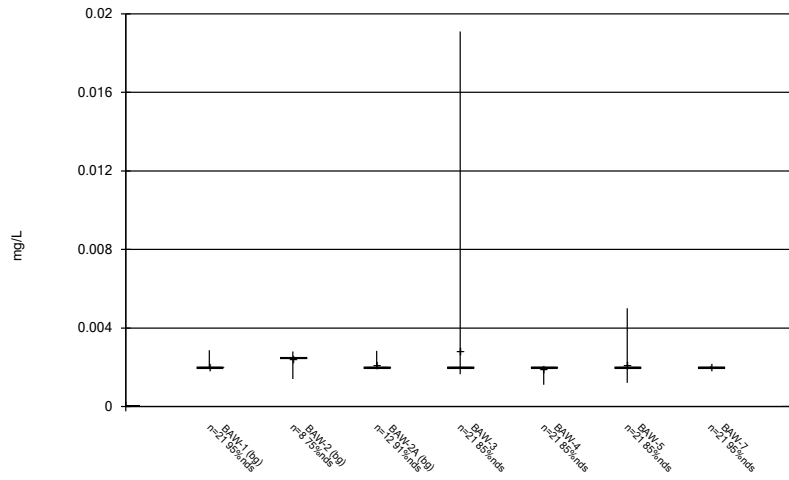
Constituent: Calcium Analysis Run 6/7/2023 8:56 AM  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



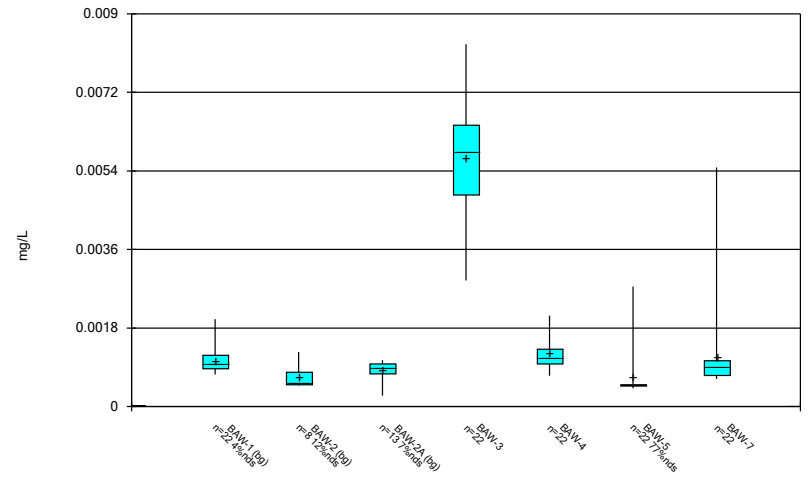
Constituent: Chloride Analysis Run 6/7/2023 8:56 AM  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



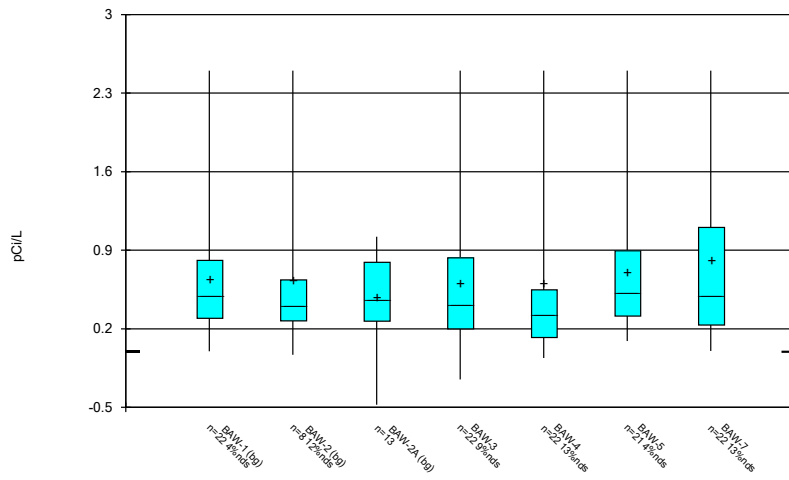
Constituent: Chromium Analysis Run 6/7/2023 8:56 AM  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



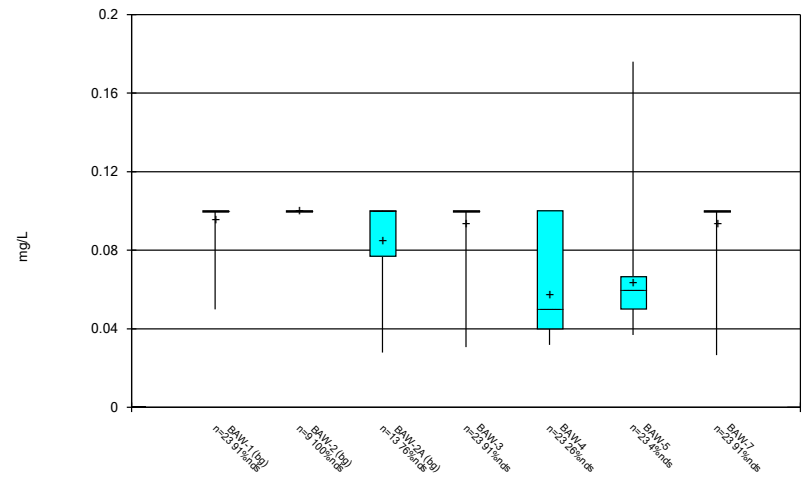
Constituent: Cobalt Analysis Run 6/7/2023 8:56 AM  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



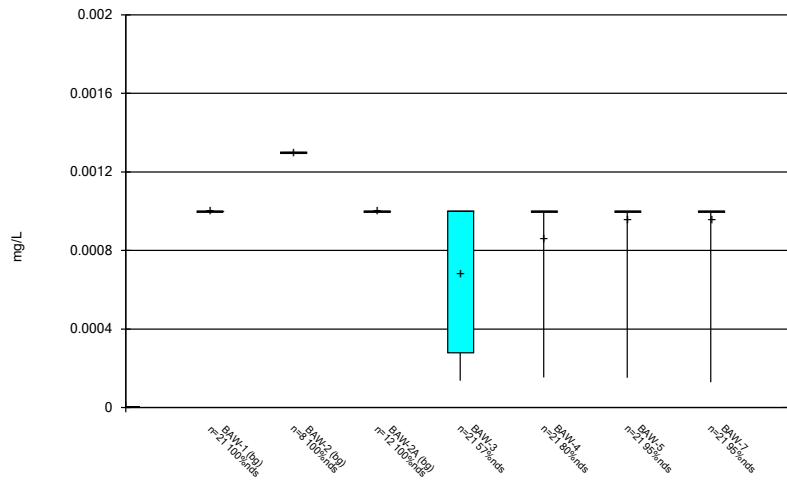
Constituent: Combined Radium 226 + 228 Analysis Run 6/7/2023 8:56 AM  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



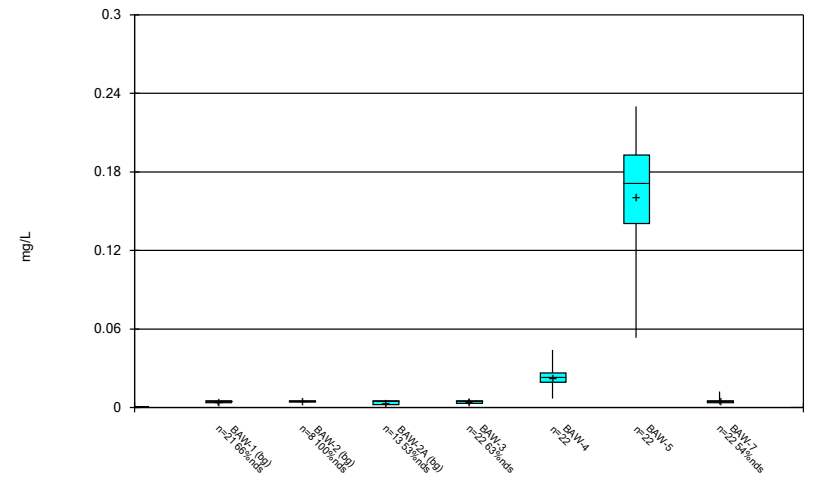
Constituent: Fluoride Analysis Run 6/7/2023 8:56 AM  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Box & Whiskers Plot



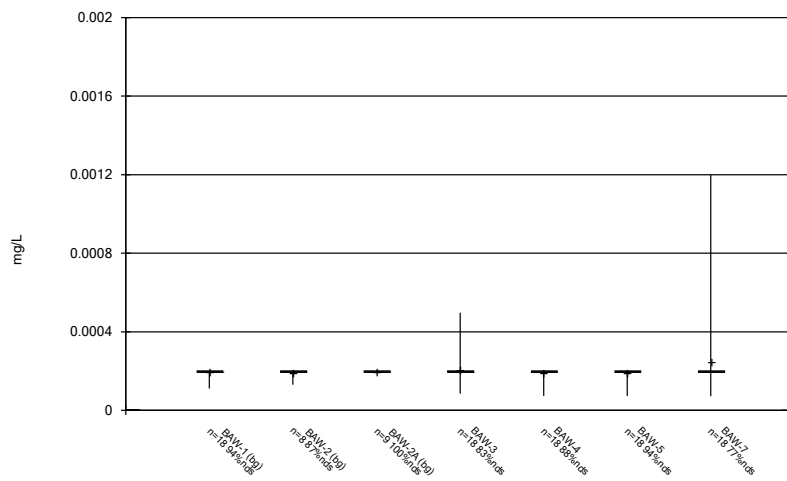
Constituent: Lead Analysis Run 6/7/2023 8:56 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Box & Whiskers Plot



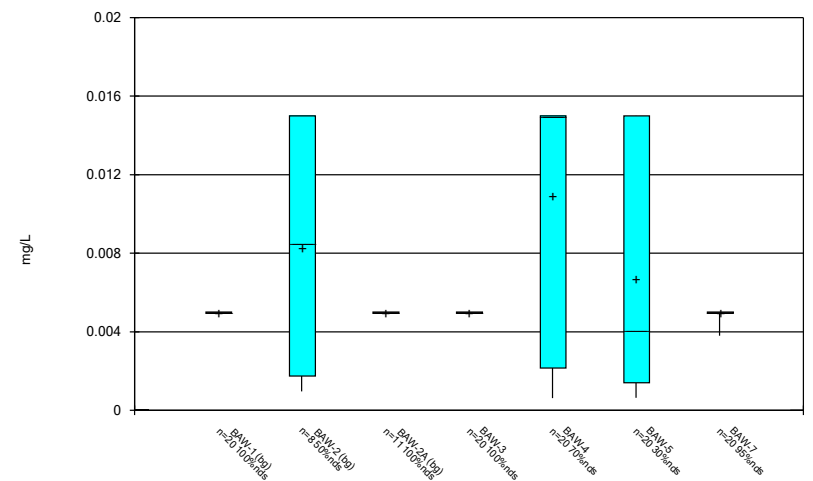
Constituent: Lithium Analysis Run 6/7/2023 8:56 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Box & Whiskers Plot



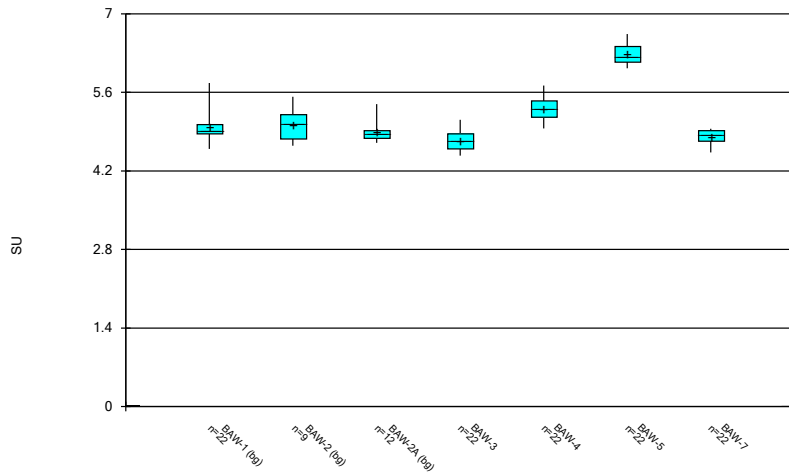
Constituent: Mercury Analysis Run 6/7/2023 8:56 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Box & Whiskers Plot



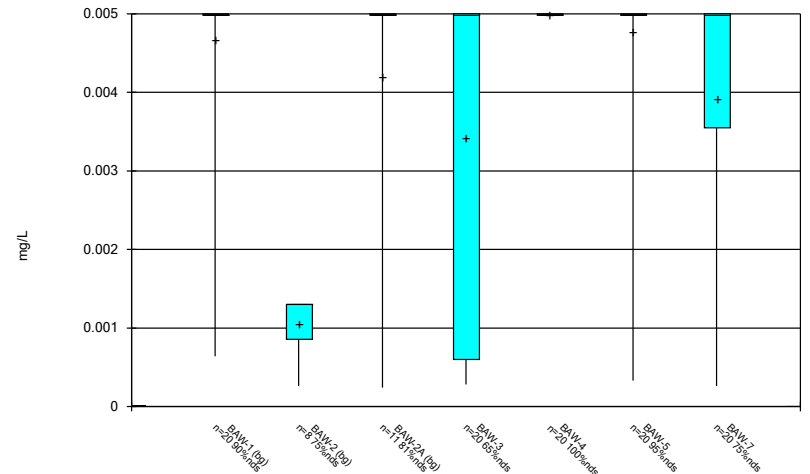
Constituent: Molybdenum Analysis Run 6/7/2023 8:56 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Box & Whiskers Plot



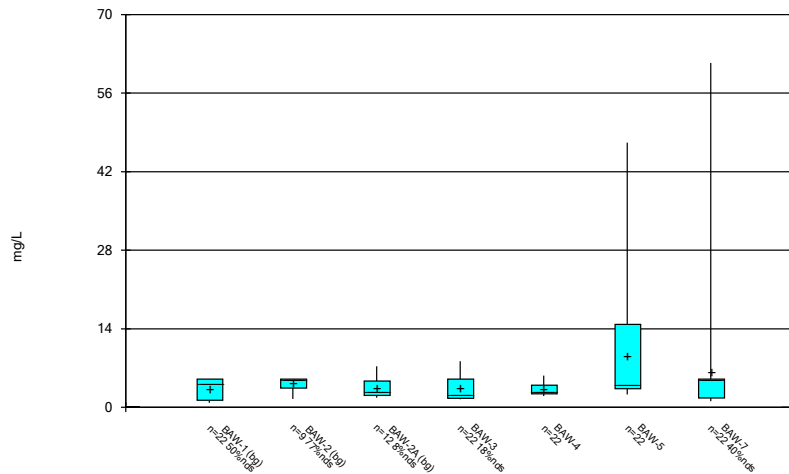
Constituent: pH Analysis Run 6/7/2023 8:56 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Box & Whiskers Plot



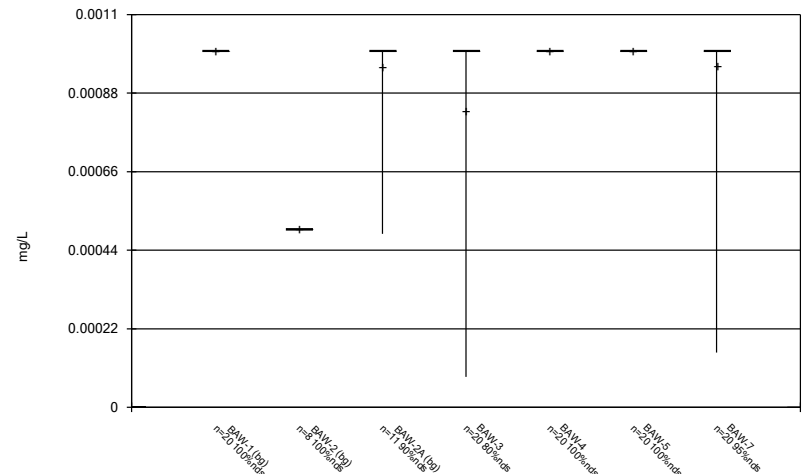
Constituent: Selenium Analysis Run 6/7/2023 8:56 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Box & Whiskers Plot



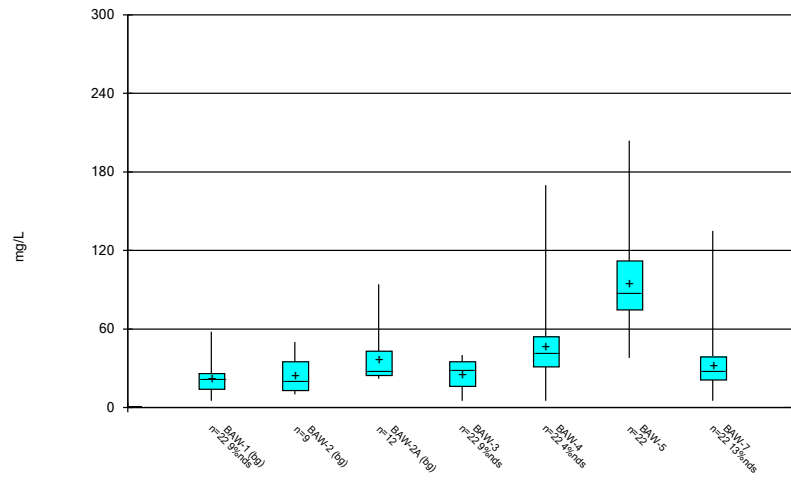
Constituent: Sulfate Analysis Run 6/7/2023 8:56 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Box & Whiskers Plot



Constituent: Thallium Analysis Run 6/7/2023 8:56 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 6/7/2023 8:56 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR



FIGURE C.

# Outlier Summary

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 5/10/2023, 2:41 PM

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|           | BAW-2 Calcium (mg/L) | BAW-1 Lithium (mg/L) |
|-----------|----------------------|----------------------|
| 3/23/2016 | 2.6 (o)              |                      |
| 7/12/2016 |                      | 0.012 (o)            |

FIGURE D.

# Appendix III Interwell Prediction Limits - Significant Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 5/10/2023, 2:44 PM

| Constituent                   | Well  | Upper Lim. | Lower Lim. | Date      | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs  | ND Adj. | Transform | Alpha     | Method                      |
|-------------------------------|-------|------------|------------|-----------|---------|------|------|---------|-----------|-------|---------|-----------|-----------|-----------------------------|
| Boron (mg/L)                  | BAW-5 | 0.0928     | n/a        | 4/21/2023 | 0.831   | Yes  | 45   | n/a     | n/a       | 86.67 | n/a     | n/a       | 0.0009429 | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)                  | BAW-7 | 0.0928     | n/a        | 4/21/2023 | 0.271   | Yes  | 45   | n/a     | n/a       | 86.67 | n/a     | n/a       | 0.0009429 | NP Inter (NDs) 1 of 2       |
| Calcium (mg/L)                | BAW-4 | 1.673      | n/a        | 4/21/2023 | 4.87    | Yes  | 44   | 0.955   | 0.1277    | 4.545 | None    | x^(1/3)   | 0.00188   | Param Inter 1 of 2          |
| Calcium (mg/L)                | BAW-5 | 1.673      | n/a        | 4/21/2023 | 26.8    | Yes  | 44   | 0.955   | 0.1277    | 4.545 | None    | x^(1/3)   | 0.00188   | Param Inter 1 of 2          |
| Calcium (mg/L)                | BAW-7 | 1.673      | n/a        | 4/21/2023 | 2.56    | Yes  | 44   | 0.955   | 0.1277    | 4.545 | None    | x^(1/3)   | 0.00188   | Param Inter 1 of 2          |
| pH (SU)                       | BAW-3 | 5.77       | 4.59       | 4/20/2023 | 4.49    | Yes  | 43   | n/a     | n/a       | 0     | n/a     | n/a       | 0.002044  | NP Inter (normality) 1 of 2 |
| pH (SU)                       | BAW-5 | 5.77       | 4.59       | 4/21/2023 | 6.09    | Yes  | 43   | n/a     | n/a       | 0     | n/a     | n/a       | 0.002044  | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L)                | BAW-3 | 7.32       | n/a        | 4/20/2023 | 8.2     | Yes  | 43   | n/a     | n/a       | 44.19 | n/a     | n/a       | 0.001022  | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L)                | BAW-5 | 7.32       | n/a        | 4/21/2023 | 47.2    | Yes  | 43   | n/a     | n/a       | 44.19 | n/a     | n/a       | 0.001022  | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L)                | BAW-7 | 7.32       | n/a        | 4/21/2023 | 8.82    | Yes  | 43   | n/a     | n/a       | 44.19 | n/a     | n/a       | 0.001022  | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | BAW-5 | 57.65      | n/a        | 4/21/2023 | 204     | Yes  | 43   | 4.947   | 1.454     | 4.651 | None    | sqrt(x)   | 0.00188   | Param Inter 1 of 2          |

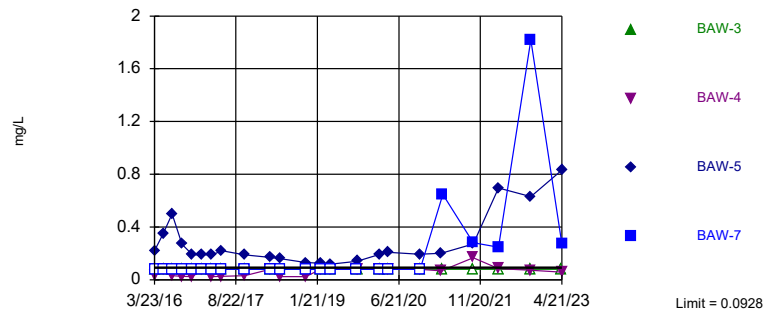
# Appendix III Interwell Prediction Limits - All Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 5/10/2023, 2:44 PM

| Constituent                          | Well         | Upper Lim.    | Lower Lim.  | Date             | Observ.      | Sig.       | Bg N      | Bg Mean      | Std. Dev.     | %NDs         | ND Adj.     | Transform      | Alpha            | Method                             |
|--------------------------------------|--------------|---------------|-------------|------------------|--------------|------------|-----------|--------------|---------------|--------------|-------------|----------------|------------------|------------------------------------|
| Boron (mg/L)                         | BAW-3        | 0.0928        | n/a         | 4/20/2023        | 0.08ND       | No         | 45        | n/a          | n/a           | 86.67        | n/a         | n/a            | 0.0009429        | NP Inter (NDs) 1 of 2              |
| Boron (mg/L)                         | BAW-4        | 0.0928        | n/a         | 4/21/2023        | 0.058J       | No         | 45        | n/a          | n/a           | 86.67        | n/a         | n/a            | 0.0009429        | NP Inter (NDs) 1 of 2              |
| <b>Boron (mg/L)</b>                  | <b>BAW-5</b> | <b>0.0928</b> | <b>n/a</b>  | <b>4/21/2023</b> | <b>0.831</b> | <b>Yes</b> | <b>45</b> | <b>n/a</b>   | <b>n/a</b>    | <b>86.67</b> | <b>n/a</b>  | <b>n/a</b>     | <b>0.0009429</b> | <b>NP Inter (NDs) 1 of 2</b>       |
| <b>Boron (mg/L)</b>                  | <b>BAW-7</b> | <b>0.0928</b> | <b>n/a</b>  | <b>4/21/2023</b> | <b>0.271</b> | <b>Yes</b> | <b>45</b> | <b>n/a</b>   | <b>n/a</b>    | <b>86.67</b> | <b>n/a</b>  | <b>n/a</b>     | <b>0.0009429</b> | <b>NP Inter (NDs) 1 of 2</b>       |
| Calcium (mg/L)                       | BAW-3        | 1.673         | n/a         | 4/20/2023        | 0.789        | No         | 44        | 0.955        | 0.1277        | 4.545        | None        | x^(1/3)        | 0.00188          | Param Inter 1 of 2                 |
| <b>Calcium (mg/L)</b>                | <b>BAW-4</b> | <b>1.673</b>  | <b>n/a</b>  | <b>4/21/2023</b> | <b>4.87</b>  | <b>Yes</b> | <b>44</b> | <b>0.955</b> | <b>0.1277</b> | <b>4.545</b> | <b>None</b> | <b>x^(1/3)</b> | <b>0.00188</b>   | <b>Param Inter 1 of 2</b>          |
| <b>Calcium (mg/L)</b>                | <b>BAW-5</b> | <b>1.673</b>  | <b>n/a</b>  | <b>4/21/2023</b> | <b>26.8</b>  | <b>Yes</b> | <b>44</b> | <b>0.955</b> | <b>0.1277</b> | <b>4.545</b> | <b>None</b> | <b>x^(1/3)</b> | <b>0.00188</b>   | <b>Param Inter 1 of 2</b>          |
| <b>Calcium (mg/L)</b>                | <b>BAW-7</b> | <b>1.673</b>  | <b>n/a</b>  | <b>4/21/2023</b> | <b>2.56</b>  | <b>Yes</b> | <b>44</b> | <b>0.955</b> | <b>0.1277</b> | <b>4.545</b> | <b>None</b> | <b>x^(1/3)</b> | <b>0.00188</b>   | <b>Param Inter 1 of 2</b>          |
| Chloride (mg/L)                      | BAW-3        | 16.4          | n/a         | 4/20/2023        | 5.36         | No         | 43        | n/a          | n/a           | 0            | n/a         | n/a            | 0.001022         | NP Inter (normality) 1 of 2        |
| Chloride (mg/L)                      | BAW-4        | 16.4          | n/a         | 4/21/2023        | 6.78         | No         | 43        | n/a          | n/a           | 0            | n/a         | n/a            | 0.001022         | NP Inter (normality) 1 of 2        |
| Chloride (mg/L)                      | BAW-5        | 16.4          | n/a         | 4/21/2023        | 11.3         | No         | 43        | n/a          | n/a           | 0            | n/a         | n/a            | 0.001022         | NP Inter (normality) 1 of 2        |
| Chloride (mg/L)                      | BAW-7        | 16.4          | n/a         | 4/21/2023        | 8.95         | No         | 43        | n/a          | n/a           | 0            | n/a         | n/a            | 0.001022         | NP Inter (normality) 1 of 2        |
| Fluoride (mg/L)                      | BAW-3        | 0.1           | n/a         | 4/20/2023        | 0.1ND        | No         | 45        | n/a          | n/a           | 88.89        | n/a         | n/a            | 0.0009429        | NP Inter (NDs) 1 of 2              |
| Fluoride (mg/L)                      | BAW-4        | 0.1           | n/a         | 4/21/2023        | 0.0441J      | No         | 45        | n/a          | n/a           | 88.89        | n/a         | n/a            | 0.0009429        | NP Inter (NDs) 1 of 2              |
| Fluoride (mg/L)                      | BAW-5        | 0.1           | n/a         | 4/21/2023        | 0.0665J      | No         | 45        | n/a          | n/a           | 88.89        | n/a         | n/a            | 0.0009429        | NP Inter (NDs) 1 of 2              |
| Fluoride (mg/L)                      | BAW-7        | 0.1           | n/a         | 4/21/2023        | 0.1ND        | No         | 45        | n/a          | n/a           | 88.89        | n/a         | n/a            | 0.0009429        | NP Inter (NDs) 1 of 2              |
| <b>pH (SU)</b>                       | <b>BAW-3</b> | <b>5.77</b>   | <b>4.59</b> | <b>4/20/2023</b> | <b>4.49</b>  | <b>Yes</b> | <b>43</b> | <b>n/a</b>   | <b>n/a</b>    | <b>0</b>     | <b>n/a</b>  | <b>n/a</b>     | <b>0.002044</b>  | <b>NP Inter (normality) 1 of 2</b> |
| pH (SU)                              | BAW-4        | 5.77          | 4.59        | 4/21/2023        | 5.45         | No         | 43        | n/a          | n/a           | 0            | n/a         | n/a            | 0.002044         | NP Inter (normality) 1 of 2        |
| <b>pH (SU)</b>                       | <b>BAW-5</b> | <b>5.77</b>   | <b>4.59</b> | <b>4/21/2023</b> | <b>6.09</b>  | <b>Yes</b> | <b>43</b> | <b>n/a</b>   | <b>n/a</b>    | <b>0</b>     | <b>n/a</b>  | <b>n/a</b>     | <b>0.002044</b>  | <b>NP Inter (normality) 1 of 2</b> |
| pH (SU)                              | BAW-7        | 5.77          | 4.59        | 4/21/2023        | 4.95         | No         | 43        | n/a          | n/a           | 0            | n/a         | n/a            | 0.002044         | NP Inter (normality) 1 of 2        |
| <b>Sulfate (mg/L)</b>                | <b>BAW-3</b> | <b>7.32</b>   | <b>n/a</b>  | <b>4/20/2023</b> | <b>8.2</b>   | <b>Yes</b> | <b>43</b> | <b>n/a</b>   | <b>n/a</b>    | <b>44.19</b> | <b>n/a</b>  | <b>n/a</b>     | <b>0.001022</b>  | <b>NP Inter (normality) 1 of 2</b> |
| Sulfate (mg/L)                       | BAW-4        | 7.32          | n/a         | 4/21/2023        | 5            | No         | 43        | n/a          | n/a           | 44.19        | n/a         | n/a            | 0.001022         | NP Inter (normality) 1 of 2        |
| <b>Sulfate (mg/L)</b>                | <b>BAW-5</b> | <b>7.32</b>   | <b>n/a</b>  | <b>4/21/2023</b> | <b>47.2</b>  | <b>Yes</b> | <b>43</b> | <b>n/a</b>   | <b>n/a</b>    | <b>44.19</b> | <b>n/a</b>  | <b>n/a</b>     | <b>0.001022</b>  | <b>NP Inter (normality) 1 of 2</b> |
| <b>Sulfate (mg/L)</b>                | <b>BAW-7</b> | <b>7.32</b>   | <b>n/a</b>  | <b>4/21/2023</b> | <b>8.82</b>  | <b>Yes</b> | <b>43</b> | <b>n/a</b>   | <b>n/a</b>    | <b>44.19</b> | <b>n/a</b>  | <b>n/a</b>     | <b>0.001022</b>  | <b>NP Inter (normality) 1 of 2</b> |
| Total Dissolved Solids (mg/L)        | BAW-3        | 57.65         | n/a         | 4/20/2023        | 31           | No         | 43        | 4.947        | 1.454         | 4.651        | None        | sqrt(x)        | 0.00188          | Param Inter 1 of 2                 |
| Total Dissolved Solids (mg/L)        | BAW-4        | 57.65         | n/a         | 4/21/2023        | 50           | No         | 43        | 4.947        | 1.454         | 4.651        | None        | sqrt(x)        | 0.00188          | Param Inter 1 of 2                 |
| <b>Total Dissolved Solids (mg/L)</b> | <b>BAW-5</b> | <b>57.65</b>  | <b>n/a</b>  | <b>4/21/2023</b> | <b>204</b>   | <b>Yes</b> | <b>43</b> | <b>4.947</b> | <b>1.454</b>  | <b>4.651</b> | <b>None</b> | <b>sqrt(x)</b> | <b>0.00188</b>   | <b>Param Inter 1 of 2</b>          |
| Total Dissolved Solids (mg/L)        | BAW-7        | 57.65         | n/a         | 4/21/2023        | 47           | No         | 43        | 4.947        | 1.454         | 4.651        | None        | sqrt(x)        | 0.00188          | Param Inter 1 of 2                 |

Exceeds Limit: BAW-5, BAW-7

Prediction Limit  
Interwell Non-parametric

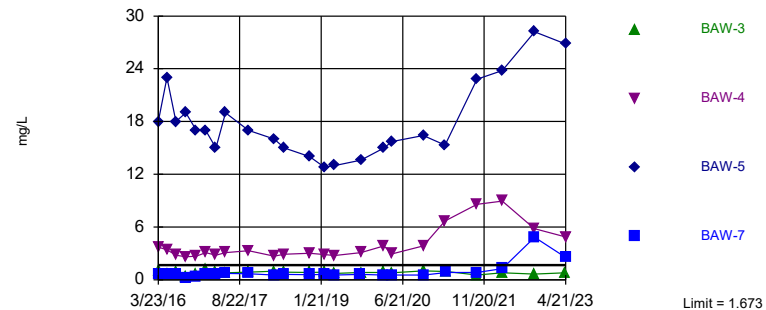


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 45 background values. 86.67% NDs. Annual per-constituent alpha = 0.007519. Individual comparison alpha = 0.0009429 (1 of 2). Comparing 4 points to limit.

Constituent: Boron Analysis Run 5/10/2023 2:41 PM View: Interwell  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Exceeds Limit: BAW-4, BAW-5, BAW-7

Prediction Limit  
Interwell Parametric

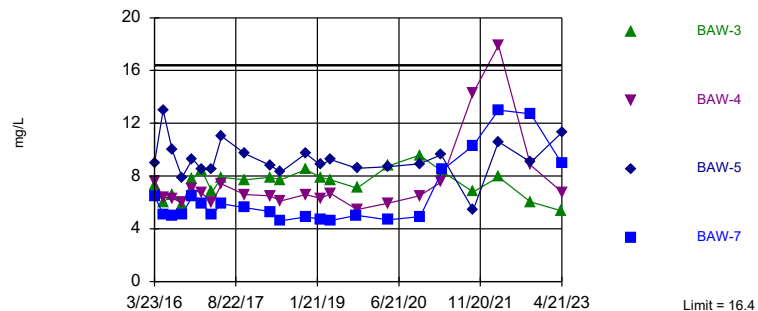


Background Data Summary (based on cube root transformation): Mean=0.955, Std. Dev.=0.1277, n=44, 4.545% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9247, critical = 0.924. Kappa = 1.818 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.00188. Comparing 4 points to limit.

Constituent: Calcium Analysis Run 5/10/2023 2:41 PM View: Interwell  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Within Limit

Prediction Limit  
Interwell Non-parametric

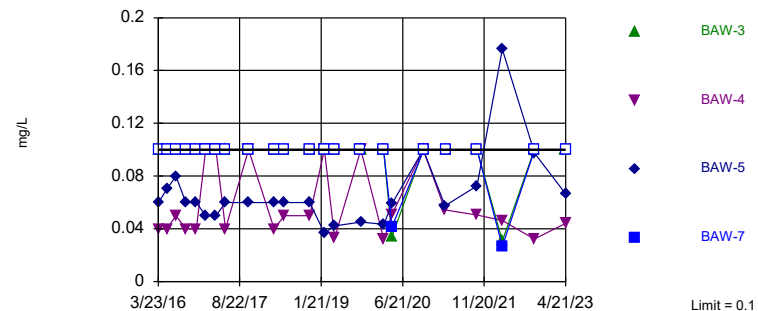


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 43 background values. Annual per-constituent alpha = 0.008148. Individual comparison alpha = 0.001022 (1 of 2). Comparing 4 points to limit.

Constituent: Chloride Analysis Run 5/10/2023 2:42 PM View: Interwell  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Within Limit

Prediction Limit  
Interwell Non-parametric

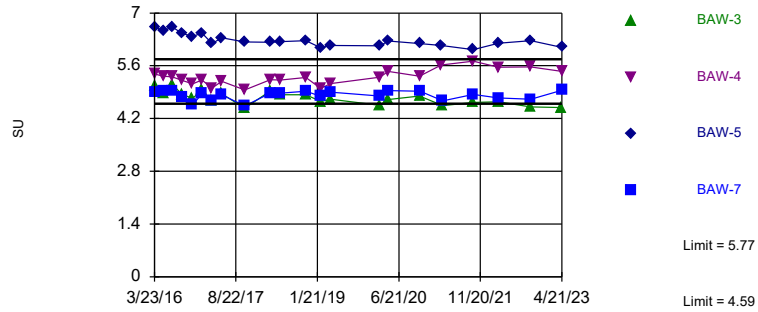


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 45 background values. 88.89% NDs. Annual per-constituent alpha = 0.007519. Individual comparison alpha = 0.0009429 (1 of 2). Comparing 4 points to limit.

Constituent: Fluoride Analysis Run 5/10/2023 2:42 PM View: Interwell  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Exceeds Limits: BAW-3, BAW-5

Prediction Limit  
Interwell Non-parametric

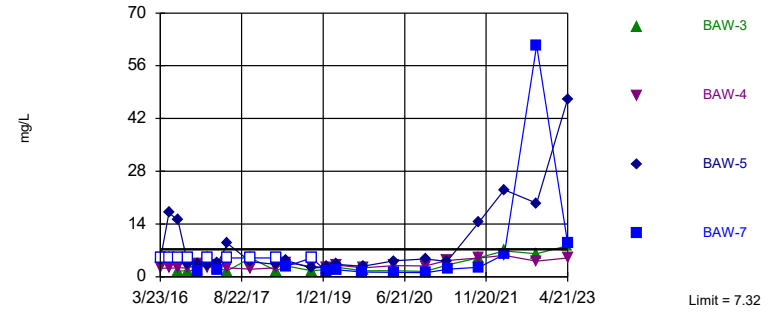


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 43 background values. Annual per-constituent alpha = 0.0163. Individual comparison alpha = 0.002044 (1 of 2). Comparing 4 points to limit.

Constituent: pH Analysis Run 5/10/2023 2:42 PM View: Interwell  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Exceeds Limit: BAW-3, BAW-5, BAW-7

Prediction Limit  
Interwell Non-parametric



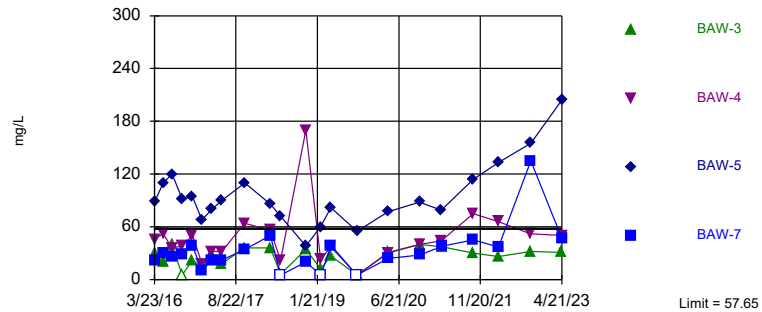
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 43 background values. 44.19% NDs. Annual per-constituent alpha = 0.008148. Individual comparison alpha = 0.001022 (1 of 2). Comparing 4 points to limit.

Constituent: Sulfate Analysis Run 5/10/2023 2:42 PM View: Interwell  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Hollow symbols indicate censored values.

Exceeds Limit: BAW-5

Prediction Limit  
Interwell Parametric



Background Data Summary (based on square root transformation): Mean=4.947, Std. Dev.=1.454, n=43, 4.651% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9447, critical = 0.923. Kappa = 1.82 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.00188. Comparing 4 points to limit.

Constituent: Total Dissolved Solids Analysis Run 5/10/2023 2:42 PM View: Interwell  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/10/2023 2:44 PM View: Interwell

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-7 | BAW-5 | BAW-3 | BAW-2 (bg) | BAW-4      | BAW-2A (bg) |
|------------|------------|-------|-------|-------|------------|------------|-------------|
| 3/23/2016  | <0.08      | <0.08 | 0.22  | <0.08 | <0.08      | 0.037 (J)  |             |
| 5/17/2016  | <0.08      | <0.08 | 0.35  |       |            | <0.08      |             |
| 5/18/2016  |            |       |       | <0.08 | <0.08      |            |             |
| 7/12/2016  | <0.08      | <0.08 |       |       |            |            |             |
| 7/13/2016  |            |       | 0.5   | <0.08 | <0.08      | 0.032 (J)  |             |
| 9/13/2016  | <0.08      | <0.08 | 0.27  |       |            |            |             |
| 9/14/2016  |            |       |       | <0.08 | <0.08      | 0.027 (J)  |             |
| 11/19/2016 | <0.08      | <0.08 | 0.19  | <0.08 | <0.08      | 0.024 (J)  |             |
| 1/17/2017  | <0.08      | <0.08 |       | <0.08 | <0.08      |            |             |
| 1/18/2017  |            |       | 0.19  |       |            | <0.08      |             |
| 3/22/2017  | <0.08      | <0.08 |       |       |            |            |             |
| 3/23/2017  |            |       | 0.19  | <0.08 | <0.08      | 0.024 (J)  |             |
| 5/24/2017  | <0.08      | <0.08 | 0.22  | <0.08 | <0.08      | 0.027 (J)  |             |
| 10/16/2017 | <0.08      | <0.08 | 0.19  | <0.08 | <0.08      | 0.03 (J)   |             |
| 3/28/2018  | <0.08      |       | 0.17  | <0.08 |            | <0.08      | <0.08       |
| 3/29/2018  |            | <0.08 |       |       |            |            |             |
| 6/2/2018   | <0.08      | <0.08 | 0.16  | <0.08 |            | 0.025 (J)  | <0.08       |
| 11/8/2018  | <0.08      |       |       | <0.08 |            | 0.024 (J)  |             |
| 11/9/2018  |            | <0.08 | 0.13  |       |            |            | <0.08       |
| 2/11/2019  | <0.08      |       | 0.126 |       |            | <0.08      |             |
| 2/12/2019  |            | <0.08 |       | <0.08 |            |            | <0.08       |
| 4/17/2019  | <0.08      |       | 0.118 | <0.08 |            | <0.08      | <0.08       |
| 4/18/2019  |            | <0.08 |       |       |            |            |             |
| 9/27/2019  | <0.08      | <0.08 |       |       |            |            | <0.08       |
| 9/30/2019  |            |       | 0.14  | <0.08 |            | <0.08      |             |
| 2/21/2020  | 0.0928     | <0.08 |       | <0.08 |            |            | 0.0589 (J)  |
| 2/22/2020  |            |       | 0.193 |       |            | <0.08      |             |
| 4/14/2020  | <0.08      | <0.08 | 0.209 | <0.08 |            | <0.08      | 0.0424 (J)  |
| 10/30/2020 | <0.08      |       | 0.194 | <0.08 |            | <0.08      | 0.0495 (J)  |
| 11/2/2020  |            | <0.08 |       |       |            |            |             |
| 3/17/2021  |            |       | 0.2   |       |            | 0.0673 (J) |             |
| 3/26/2021  | <0.08      | 0.647 |       | <0.08 |            |            | <0.08       |
| 10/5/2021  | <0.08      | 0.281 |       |       |            | 0.168      |             |
| 10/6/2021  |            |       | 0.272 | <0.08 |            |            | <0.08       |
| 3/16/2022  | <0.08      | 0.247 | 0.695 | <0.08 |            | 0.084      | 0.0717 (J)  |
| 10/5/2022  | <0.08      |       |       | <0.08 |            | 0.0714 (J) |             |
| 10/6/2022  |            | 1.82  | 0.631 |       |            |            |             |
| 4/20/2023  | <0.08      |       |       | <0.08 |            |            | 0.0711 (J)  |
| 4/21/2023  |            | 0.271 | 0.831 |       |            | 0.058 (J)  |             |



# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/10/2023 2:44 PM View: Interwell

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-7 | BAW-5 | BAW-3 | BAW-4 | BAW-2 (bg) | BAW-2A (bg) |
|------------|------------|-------|-------|-------|-------|------------|-------------|
| 3/23/2016  | <0.5       | 0.65  | 18    | 1.1   | 3.7   | 2.6 (o)    |             |
| 5/17/2016  | 0.84       | 0.68  | 23    |       | 3.4   |            |             |
| 5/18/2016  |            |       |       | 0.56  |       | 1.3        |             |
| 7/12/2016  | 0.79       | 0.62  |       |       |       |            |             |
| 7/13/2016  |            |       | 18    | 0.95  | 2.8   | 1.1        |             |
| 9/13/2016  | 0.42       | 0.25  | 19    |       |       |            |             |
| 9/14/2016  |            |       |       | 0.4   | 2.6   | 1.1        |             |
| 11/19/2016 | 1.2        | 0.36  | 17    | 0.62  | 2.7   | 1          |             |
| 1/17/2017  | 1.4        | 0.66  |       | 1.2   |       | 0.87       |             |
| 1/18/2017  |            |       | 17    |       | 3.1   |            |             |
| 3/22/2017  | 0.95       | 0.65  |       |       |       |            |             |
| 3/23/2017  |            |       | 15    | 0.87  | 2.8   | 0.74       |             |
| 5/24/2017  | 1.3        | 0.72  | 19    | 0.81  | 3.1   | 0.84       |             |
| 10/16/2017 | 0.93       | 0.7   | 17    | 0.86  | 3.3   | 0.76       |             |
| 3/28/2018  | 1          |       | 16    | 0.97  | 2.7   |            | 2.8         |
| 3/29/2018  |            | 0.55  |       |       |       |            |             |
| 6/2/2018   | 0.93       | 0.6   | 15    | 0.86  | 2.9   |            | 0.71        |
| 11/8/2018  | 1          |       |       | 0.84  | 3     |            |             |
| 11/9/2018  |            | 0.59  | 14    |       |       |            | 0.61        |
| 2/11/2019  | 1          |       | 12.8  |       | 2.88  |            |             |
| 2/12/2019  |            | 0.608 |       | 0.856 |       |            | 0.757       |
| 4/17/2019  | 0.893      |       | 13    | 0.711 | 2.77  |            | 0.755       |
| 4/18/2019  |            | 0.55  |       |       |       |            |             |
| 9/27/2019  | 0.8        | 0.598 |       |       |       |            | 0.663       |
| 9/30/2019  |            |       | 13.6  | 0.826 | 3.08  |            |             |
| 2/21/2020  | 1.02       | 0.552 |       | 0.841 |       |            | 0.648       |
| 2/22/2020  |            |       | 15    |       | 3.86  |            |             |
| 4/14/2020  | 0.887      | 0.532 | 15.7  | 0.811 | 2.95  |            | 0.67        |
| 10/30/2020 | 0.945      |       | 16.4  | 1     | 3.84  |            | 0.672       |
| 11/2/2020  |            | 0.535 |       |       |       |            |             |
| 3/17/2021  |            |       | 15.3  |       | 6.69  |            |             |
| 3/26/2021  | 0.965      | 0.848 |       | 0.937 |       |            | 0.644       |
| 10/5/2021  | 0.996      | 0.829 |       |       | 8.57  |            |             |
| 10/6/2021  |            |       | 22.8  | 0.532 |       |            | <0.5        |
| 3/16/2022  | 1.32       | 1.28  | 23.8  | 0.78  | 8.94  |            | 0.539       |
| 10/5/2022  | 1.42       |       |       | 0.647 | 5.81  |            |             |
| 10/6/2022  |            | 4.84  | 28.2  |       |       |            |             |
| 4/20/2023  | 0.996      |       |       | 0.789 |       |            | 0.685       |
| 4/21/2023  |            | 2.56  | 26.8  |       | 4.87  |            |             |

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/10/2023 2:44 PM View: Interwell

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-7 | BAW-5 | BAW-3 | BAW-2 (bg) | BAW-4 | BAW-2A (bg) |
|------------|------------|-------|-------|-------|------------|-------|-------------|
| 3/23/2016  | 6.5        | 6.5   | 9     | 7.3   | 5.1        | 7.6   |             |
| 5/17/2016  | 4.9        | 5.1   | 13    |       |            | 6.4   |             |
| 5/18/2016  |            |       |       | 6     | 4.2        |       |             |
| 7/12/2016  | 5.3        | 5     |       |       |            |       |             |
| 7/13/2016  |            |       | 10    | 6.6   | 4.7        | 6.3   |             |
| 9/13/2016  | 4.8 (F1)   | 5.1   | 7.9   |       |            |       |             |
| 9/14/2016  |            |       |       | 5.8   | 4.5        | 6     |             |
| 11/19/2016 | 7.1        | 6.5   | 9.3   | 7.8   | 6.1        | 7     |             |
| 1/17/2017  | 5.8        | 5.9   |       | 8.4   | 5.4        |       |             |
| 1/18/2017  |            |       | 8.5   |       |            | 6.7   |             |
| 3/22/2017  | 4.9        | 5.1   |       |       |            |       |             |
| 3/23/2017  |            |       | 8.5   | 6.8   | 5.1        | 6     |             |
| 5/24/2017  | 5.9        | 5.9   | 11    | 7.9   | 5.5        | 7.4   |             |
| 10/16/2017 | 5.7        | 5.6   | 9.7   | 7.7   | 6.1        | 6.6   |             |
| 3/28/2018  | 5.7        |       | 8.8   | 7.9   |            | 6.5   | 6.7         |
| 3/29/2018  |            | 5.3   |       |       |            |       |             |
| 6/2/2018   | 4.7        | 4.6   | 8.3   | 7.7   |            | 6.1   | 5.8         |
| 11/8/2018  | 5.6        |       |       | 8.5   |            | 6.6   |             |
| 11/9/2018  |            | 4.9   | 9.7   |       |            |       | 7.2         |
| 2/11/2019  | 4.84       |       | 8.84  |       |            | 6.31  |             |
| 2/12/2019  |            | 4.72  |       | 7.89  |            |       | 8.4         |
| 4/17/2019  | 4.99       |       | 9.24  | 7.71  |            | 6.68  | 8.03        |
| 4/18/2019  |            | 4.64  |       |       |            |       |             |
| 9/27/2019  | 5.08       | 5.02  |       |       |            |       | 8.37        |
| 9/30/2019  |            |       | 8.59  | 7.07  |            | 5.45  |             |
| 4/14/2020  | 4.91       | 4.68  | 8.71  | 8.75  |            | 5.93  | 7.57        |
| 10/30/2020 | 5.55       |       | 8.93  | 9.58  |            | 6.49  | 7.59        |
| 11/2/2020  |            | 4.91  |       |       |            |       |             |
| 3/17/2021  |            |       | 9.6   |       |            | 7.55  |             |
| 3/26/2021  | 5.92       | 8.5   |       | 8.32  |            |       | 6.21        |
| 10/5/2021  | 6.21       | 10.3  |       |       |            | 14.3  |             |
| 10/6/2021  |            |       | 5.44  | 6.8   |            |       | 16.4        |
| 3/16/2022  | 7.85       | 13    | 10.6  | 7.94  |            | 17.9  | 11.5        |
| 10/5/2022  | 6.75       |       |       | 6.04  |            | 8.84  |             |
| 10/6/2022  |            | 12.7  | 9.04  |       |            |       |             |
| 4/20/2023  | 5.22       |       |       | 5.36  |            |       | 9.6         |
| 4/21/2023  |            | 8.95  | 11.3  |       |            | 6.78  |             |

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/10/2023 2:44 PM View: Interwell

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-7      | BAW-5      | BAW-3      | BAW-2 (bg) | BAW-4      | BAW-2A (bg) |
|------------|------------|------------|------------|------------|------------|------------|-------------|
| 3/23/2016  | <0.1       | <0.1       | 0.06 (J)   | <0.1       | <0.1       | 0.04 (J)   |             |
| 5/17/2016  | <0.1       | <0.1       | 0.07 (J)   |            |            | 0.04 (J)   |             |
| 5/18/2016  |            |            |            | <0.1       | <0.1       |            |             |
| 7/12/2016  | <0.1       | <0.1       |            |            |            |            |             |
| 7/13/2016  |            |            | 0.08 (J)   | <0.1       | <0.1       | 0.05 (J)   |             |
| 9/13/2016  | <0.1       | <0.1       | 0.06 (J)   |            |            |            |             |
| 9/14/2016  |            |            |            | <0.1       | <0.1       | 0.04 (J)   |             |
| 11/19/2016 | <0.1       | <0.1       | 0.06 (J)   | <0.1       | <0.1       | 0.04 (J)   |             |
| 1/17/2017  | <0.1       | <0.1       |            | <0.1       | <0.1       |            |             |
| 1/18/2017  |            |            | 0.05 (J)   |            |            | <0.1       |             |
| 3/22/2017  | <0.1       | <0.1       |            |            |            |            |             |
| 3/23/2017  |            |            | 0.05 (J)   | <0.1       | <0.1       | <0.1       |             |
| 5/24/2017  | <0.1       | <0.1 (D)   | 0.06 (J)   | <0.1       | <0.1       | 0.04 (J)   |             |
| 10/16/2017 | <0.1       | <0.1       | 0.06 (J)   | <0.1       | <0.1       | <0.1       |             |
| 3/28/2018  | <0.1       |            | 0.06 (J)   | <0.1       |            | 0.04 (J)   | <0.1        |
| 3/29/2018  |            | <0.1       |            |            |            |            |             |
| 6/2/2018   | <0.1       | <0.1       | 0.06 (J)   | <0.1       |            | 0.05 (J)   | <0.1        |
| 11/8/2018  | <0.1       |            |            | <0.1       |            | 0.05 (J)   |             |
| 11/9/2018  |            | <0.1       | 0.06 (J)   |            |            |            | <0.1        |
| 2/11/2019  | <0.1       |            | 0.0368 (J) |            |            | <0.1       |             |
| 2/12/2019  |            | <0.1       |            | <0.1       |            |            | <0.1        |
| 4/17/2019  | <0.1       |            | 0.0421 (J) | <0.1       |            | 0.033 (J)  | <0.1        |
| 4/18/2019  |            | <0.1       |            |            |            |            |             |
| 9/27/2019  | <0.1       | <0.1       |            |            |            |            | 0.0313 (J)  |
| 9/30/2019  |            |            | 0.045 (J)  | <0.1       |            | <0.1       |             |
| 2/21/2020  | <0.1       | <0.1       |            | <0.1       |            |            | <0.1        |
| 2/22/2020  |            |            | 0.0434 (J) |            |            | 0.0317 (J) |             |
| 4/14/2020  | 0.0532 (J) | 0.0415 (J) | 0.059 (J)  | 0.034 (J)  |            | 0.0508 (J) | 0.0537 (J)  |
| 10/30/2020 | <0.1       |            | <0.1       | <0.1       |            | <0.1       | <0.1        |
| 11/2/2020  |            | <0.1       |            |            |            |            |             |
| 3/17/2021  |            |            | 0.0575 (J) |            |            | 0.0544 (J) |             |
| 3/26/2021  | <0.1       | <0.1       |            | <0.1       |            |            | <0.1        |
| 10/5/2021  | 0.0499 (J) | <0.1       |            |            |            | 0.0505 (J) |             |
| 10/6/2021  |            |            | 0.0725 (J) | <0.1       |            |            | <0.1        |
| 3/16/2022  | <0.1       | 0.0266 (J) | 0.176      | 0.0307 (J) |            | 0.0462 (J) | <0.1        |
| 10/5/2022  | <0.1       |            |            | <0.1       |            | 0.0322 (J) |             |
| 10/6/2022  |            | <0.1       | 0.0972 (J) |            |            |            |             |
| 4/20/2023  | <0.1       |            |            | <0.1       |            |            | 0.0278 (J)  |
| 4/21/2023  |            | <0.1       | 0.0665 (J) |            |            | 0.0441 (J) |             |

# Prediction Limit

Constituent: pH (SU) Analysis Run 5/10/2023 2:44 PM View: Interwell

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-7 | BAW-5 | BAW-3 | BAW-2 (bg) | BAW-4 | BAW-2A (bg) |
|------------|------------|-------|-------|-------|------------|-------|-------------|
| 3/23/2016  | 5.12       | 4.89  | 6.64  | 5.05  | 5.52       | 5.38  |             |
| 5/17/2016  | 5.23       | 4.92  | 6.52  |       |            | 5.32  |             |
| 5/18/2016  |            |       |       | 4.86  | 5.24       |       |             |
| 7/12/2016  | 5.77       | 4.93  |       |       |            |       |             |
| 7/13/2016  |            |       | 6.63  | 5.11  | 5.17       | 5.31  |             |
| 9/13/2016  | 4.98       | 4.76  | 6.46  |       |            |       |             |
| 9/14/2016  |            |       |       | 4.84  | 5.04       | 5.21  |             |
| 11/19/2016 | 4.82       | 4.56  | 6.38  | 4.74  | 4.88       | 5.12  |             |
| 1/17/2017  | 5.04       | 4.86  |       | 4.95  | 5.04       |       |             |
| 1/18/2017  |            |       | 6.47  |       |            | 5.22  |             |
| 3/22/2017  | 4.73       | 4.66  |       |       |            |       |             |
| 3/23/2017  |            |       | 6.19  | 4.66  | 4.66       | 5.01  |             |
| 5/24/2017  | 5.01       | 4.83  | 6.34  | 4.86  | 4.93       | 5.19  |             |
| 10/16/2017 | 4.59       | 4.53  | 6.23  | 4.47  | 4.65       | 4.96  |             |
| 3/28/2018  | 4.87       |       | 6.22  | 4.93  |            | 5.23  | 5.39        |
| 3/29/2018  |            | 4.87  |       |       |            |       |             |
| 6/2/2018   | 4.92       | 4.87  | 6.24  | 4.83  |            | 5.22  | 5.06        |
| 11/8/2018  | 5          |       |       | 4.83  |            | 5.29  |             |
| 11/9/2018  |            | 4.92  | 6.27  |       |            |       | 4.92        |
| 2/11/2019  | 4.7        |       | 6.08  |       |            | 5     |             |
| 2/12/2019  |            | 4.79  |       | 4.65  |            |       | 4.86        |
| 4/17/2019  | 4.9        |       | 6.14  | 4.71  |            | 5.13  | 4.79        |
| 4/18/2019  |            | 4.9   |       |       |            |       |             |
| 2/21/2020  | 4.86       | 4.8   |       | 4.55  |            |       | 4.73        |
| 2/22/2020  |            |       | 6.13  |       |            | 5.3   |             |
| 4/14/2020  | 5.23       | 4.94  | 6.26  | 4.7   |            | 5.45  | 4.87        |
| 10/30/2020 | 5          |       | 6.19  | 4.8   |            | 5.32  | 4.87        |
| 11/2/2020  |            | 4.92  |       |       |            |       |             |
| 3/17/2021  |            |       | 6.14  |       |            | 5.62  |             |
| 3/26/2021  | 4.86       | 4.67  |       | 4.54  |            |       | 4.7         |
| 10/5/2021  | 5          | 4.84  |       |       |            | 5.72  |             |
| 10/6/2021  |            |       | 6.03  | 4.63  |            |       | 4.77        |
| 3/16/2022  | 4.92       | 4.75  | 6.2   | 4.64  |            | 5.56  | 4.91        |
| 10/5/2022  | 4.91       |       |       | 4.51  |            | 5.57  |             |
| 10/6/2022  |            | 4.71  | 6.27  |       |            |       |             |
| 4/20/2023  | 4.89       |       |       | 4.49  |            |       | 4.83        |
| 4/21/2023  |            | 4.95  | 6.09  |       |            | 5.45  |             |

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/10/2023 2:44 PM View: Interwell

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-7   | BAW-5   | BAW-3   | BAW-2 (bg) | BAW-4   | BAW-2A (bg) |
|------------|------------|---------|---------|---------|------------|---------|-------------|
| 3/23/2016  | <5         | <5      | 4.5 (J) | <5      | <5         | 2.3 (J) |             |
| 5/17/2016  | <5         | <5      | 17      |         |            | 2.3 (J) |             |
| 5/18/2016  |            |         |         | <5      | <5         |         |             |
| 7/12/2016  | <5         | <5      |         |         |            |         |             |
| 7/13/2016  |            |         | 15      | 1.5 (J) | <5         | 2.4 (J) |             |
| 9/13/2016  | <5         | <5      | 3.4 (J) |         |            |         |             |
| 9/14/2016  |            |         |         | 1.6 (J) | <5         | 2.4 (J) |             |
| 11/19/2016 | <5         | 1.5 (J) | 3.5 (J) | 1.8 (J) | <5         | 3.3 (J) |             |
| 1/17/2017  | <5         | <5      |         | <5      | <5         |         |             |
| 1/18/2017  |            |         | 3.2 (J) |         |            | 2.3 (J) |             |
| 3/22/2017  | <5         | 1.9 (J) |         |         |            |         |             |
| 3/23/2017  |            |         | 3.7 (J) | 2.3 (J) | 1.8 (J)    | 3.2 (J) |             |
| 5/24/2017  | <5         | <5      | 8.8     | 1.6 (J) | 1.5 (J)    | 2.4 (J) |             |
| 10/16/2017 | <5         | <5      | 4 (J)   | <5      | <5         | 2 (J)   |             |
| 3/28/2018  | <5         |         | 3.3 (J) | 1.6 (J) |            | 2.4 (J) | 1.7 (J)     |
| 3/29/2018  |            | <5      |         |         |            |         |             |
| 6/2/2018   | 1.9 (J)    | 2.8 (J) | 4.3 (J) | 2.9 (J) |            | 3.7 (J) | 3 (J)       |
| 11/8/2018  | <5         |         |         | 1.6 (J) |            | 2.7 (J) |             |
| 11/9/2018  |            | <5      | 2.3 (J) |         |            |         | <5          |
| 2/11/2019  | 0.774 (J)  |         | 2.64    |         |            | 2.5     |             |
| 2/12/2019  |            | 1.35    |         | 1.97    |            |         | 1.97        |
| 4/17/2019  | 1.43       |         | 3.27    | 2.5     |            | 3.15    | 2.82        |
| 4/18/2019  |            | 1.82    |         |         |            |         |             |
| 9/27/2019  | 1.03       | 1.22    |         |         |            |         | 2.19        |
| 9/30/2019  |            |         | 2.82    | 1.64    |            | 2.34    |             |
| 4/14/2020  | 0.928 (J)  | 1.18    | 4.2     | 1.62    |            | 2.99    | 2.71        |
| 10/30/2020 | 0.91 (J)   |         | 4.76    | 1.44    |            | 2.84    | 3.97        |
| 11/2/2020  |            | 1.08    |         |         |            |         |             |
| 3/17/2021  |            |         | 4.07    |         |            | 4.35    |             |
| 3/26/2021  | 1.49       | 2       |         | 3.25    |            |         | 2.04        |
| 10/5/2021  | 1.13       | 2.55    |         |         |            | 5.02    |             |
| 10/6/2021  |            |         | 14.5    | 5.07    |            |         | 5.37        |
| 3/16/2022  | 3.6        | 5.93    | 23.1    | 6.85    |            | 5.64    | 5.37        |
| 10/5/2022  | 1.34       |         |         | 6.07    |            | 4.12    |             |
| 10/6/2022  |            | 61.4    | 19.5    |         |            |         |             |
| 4/20/2023  | 2.6        |         |         | 8.2     |            |         | 7.32        |
| 4/21/2023  |            | 8.82    | 47.2    |         |            | 5       |             |

# Prediction Limit

Constituent: T Total Dissolved Solids (mg/L) Analysis Run 5/10/2023 2:44 PM View: Interwell

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-7 | BAW-5 | BAW-3 | BAW-2 (bg) | BAW-4 | BAW-2A (bg) |
|------------|------------|-------|-------|-------|------------|-------|-------------|
| 3/23/2016  | 20         | 22    | 88    | 30    | 30         | 46    |             |
| 5/17/2016  | 24         | 30    | 110   |       |            | 52    |             |
| 5/18/2016  |            |       |       | 20    | 20         |       |             |
| 7/12/2016  | 24         | 26    |       |       |            |       |             |
| 7/13/2016  |            |       | 120   | 40    | 40         | 36    |             |
| 9/13/2016  | 18         | 28    | 92    |       |            |       |             |
| 9/14/2016  |            |       |       | <10   | 10         | 38    |             |
| 11/19/2016 | 20         | 38    | 94    | 22    | 28         | 50    |             |
| 1/17/2017  | <10        | 10    |       | 14    | 14         |       |             |
| 1/18/2017  |            |       | 68    |       |            | 18    |             |
| 3/22/2017  | 12         | 22    |       |       |            |       |             |
| 3/23/2017  |            |       | 80    | 28    | 16         | 32    |             |
| 5/24/2017  | 16 (D)     | 22    | 90    | 18    | 12         | 32    |             |
| 10/16/2017 | 58         | 34    | 110   | 36    | 50         | 64    |             |
| 3/28/2018  | 18         |       | 86    | 36    |            | 56    | 30          |
| 3/29/2018  |            | 50    |       |       |            |       |             |
| 6/2/2018   | 6          | <10   | 72    | 6     |            | 22    | 26          |
| 11/8/2018  | 12         |       |       | 34    |            | 170   |             |
| 11/9/2018  |            | 20    | 38    |       |            |       | 94          |
| 2/11/2019  | <10        |       | 60    |       |            | 23    |             |
| 2/12/2019  |            | <10   |       | 12    |            |       | 22          |
| 4/17/2019  | 16         |       | 82    | 27    |            | 37    | 22          |
| 4/18/2019  |            | 39    |       |       |            |       |             |
| 9/27/2019  | 26         | <10   |       |       |            |       | 25          |
| 9/30/2019  |            |       | 55    | <10   |            | <10   |             |
| 4/14/2020  | 25         | 24    | 77    | 31    |            | 30    | 38          |
| 10/30/2020 | 34         |       | 88    | 40    |            | 40    | 48          |
| 11/2/2020  |            | 28    |       |       |            |       |             |
| 3/17/2021  |            |       | 79    |       |            | 44    |             |
| 3/26/2021  | 24         | 38    |       | 37    |            |       | 24          |
| 10/5/2021  | 26         | 45    |       |       |            | 75    |             |
| 10/6/2021  |            |       | 114   | 30    |            |       | 61          |
| 3/16/2022  | 30         | 37    | 133   | 26    |            | 66    | 26          |
| 10/5/2022  | 30         |       |       | 32    |            | 52    |             |
| 10/6/2022  |            | 135   | 155   |       |            |       |             |
| 4/20/2023  | 26         |       |       | 31    |            |       | 30          |
| 4/21/2023  |            | 47    | 204   |       |            | 50    |             |

FIGURE E.

# Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 5/10/2023, 2:46 PM

| Constituent    | Well       | Slope    | Calc. | Critical | Sig. | N  | %NDs | Normality | Xform | Alpha | Method |
|----------------|------------|----------|-------|----------|------|----|------|-----------|-------|-------|--------|
| Calcium (mg/L) | BAW-2 (bg) | -0.4143  | -23   | -21      | Yes  | 8  | 0    | n/a       | n/a   | 0.01  | NP     |
| Calcium (mg/L) | BAW-4      | 0.2888   | 104   | 98       | Yes  | 23 | 0    | n/a       | n/a   | 0.01  | NP     |
| pH (SU)        | BAW-2 (bg) | -0.5393  | -29   | -25      | Yes  | 9  | 0    | n/a       | n/a   | 0.01  | NP     |
| pH (SU)        | BAW-3      | -0.05974 | -137  | -92      | Yes  | 22 | 0    | n/a       | n/a   | 0.01  | NP     |
| pH (SU)        | BAW-5      | -0.06166 | -132  | -92      | Yes  | 22 | 0    | n/a       | n/a   | 0.01  | NP     |
| Sulfate (mg/L) | BAW-1 (bg) | -0.3739  | -104  | -92      | Yes  | 22 | 50   | n/a       | n/a   | 0.01  | NP     |



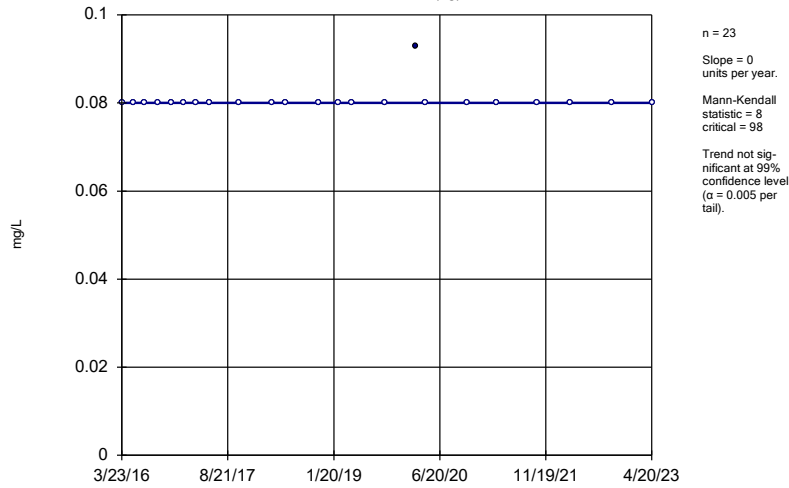
# Trend Tests - Prediction Limit Exceedances - All Results

Plant Daniel    Client: Southern Company    Data: Bottom Ash CCR    Printed 5/10/2023, 2:46 PM

| Constituent                   | Well              | Slope           | Calc.       | Critical   | Sig.       | N         | %NDs      | Normality  | Xform      | Alpha       | Method    |
|-------------------------------|-------------------|-----------------|-------------|------------|------------|-----------|-----------|------------|------------|-------------|-----------|
| Boron (mg/L)                  | BAW-1 (bg)        | 0               | 8           | 98         | No         | 23        | 95.65     | n/a        | n/a        | 0.01        | NP        |
| Boron (mg/L)                  | BAW-2 (bg)        | 0               | 0           | 25         | No         | 9         | 100       | n/a        | n/a        | 0.01        | NP        |
| Boron (mg/L)                  | BAW-2A (bg)       | 0               | -24         | -43        | No         | 13        | 61.54     | n/a        | n/a        | 0.01        | NP        |
| Boron (mg/L)                  | BAW-5             | 0.001109        | 20          | 98         | No         | 23        | 0         | n/a        | n/a        | 0.01        | NP        |
| Boron (mg/L)                  | BAW-7             | 0               | 88          | 98         | No         | 23        | 78.26     | n/a        | n/a        | 0.01        | NP        |
| Calcium (mg/L)                | BAW-1 (bg)        | 0.0304          | 68          | 98         | No         | 23        | 4.348     | n/a        | n/a        | 0.01        | NP        |
| <b>Calcium (mg/L)</b>         | <b>BAW-2 (bg)</b> | <b>-0.4143</b>  | <b>-23</b>  | <b>-21</b> | <b>Yes</b> | <b>8</b>  | <b>0</b>  | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| Calcium (mg/L)                | BAW-2A (bg)       | -0.0499         | -32         | -43        | No         | 13        | 7.692     | n/a        | n/a        | 0.01        | NP        |
| <b>Calcium (mg/L)</b>         | <b>BAW-4</b>      | <b>0.2888</b>   | <b>104</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> |
| Calcium (mg/L)                | BAW-5             | 0               | -5          | -98        | No         | 23        | 0         | n/a        | n/a        | 0.01        | NP        |
| Calcium (mg/L)                | BAW-7             | 0.04488         | 49          | 98         | No         | 23        | 0         | n/a        | n/a        | 0.01        | NP        |
| pH (SU)                       | BAW-1 (bg)        | -0.0213         | -45         | -92        | No         | 22        | 0         | n/a        | n/a        | 0.01        | NP        |
| <b>pH (SU)</b>                | <b>BAW-2 (bg)</b> | <b>-0.5393</b>  | <b>-29</b>  | <b>-25</b> | <b>Yes</b> | <b>9</b>  | <b>0</b>  | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| pH (SU)                       | BAW-2A (bg)       | -0.04932        | -27         | -38        | No         | 12        | 0         | n/a        | n/a        | 0.01        | NP        |
| <b>pH (SU)</b>                | <b>BAW-3</b>      | <b>-0.05974</b> | <b>-137</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 (SU)</b>                | <b>BAW-5</b>      | <b>-0.06166</b> | <b>-132</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 (mg/L)</b>         | <b>BAW-1 (bg)</b> | <b>-0.3739</b>  | <b>-104</b> | <b>-92</b> | <b>Yes</b> | <b>22</b> | <b>50</b> | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| Sulfate (mg/L)                | BAW-2 (bg)        | 0               | -11         | -25        | No         | 9         | 77.78     | n/a        | n/a        | 0.01        | NP        |
| Sulfate (mg/L)                | BAW-2A (bg)       | 0.8796          | 35          | 38         | No         | 12        | 8.333     | n/a        | n/a        | 0.01        | NP        |
| Sulfate (mg/L)                | BAW-3             | 0.1636          | 55          | 92         | No         | 22        | 18.18     | n/a        | n/a        | 0.01        | NP        |
| Sulfate (mg/L)                | BAW-5             | 0.3911          | 41          | 92         | No         | 22        | 0         | n/a        | n/a        | 0.01        | NP        |
| Sulfate (mg/L)                | BAW-7             | 0               | -17         | -92        | No         | 22        | 40.91     | n/a        | n/a        | 0.01        | NP        |
| Total Dissolved Solids (mg/L) | BAW-1 (bg)        | 1.323           | 63          | 92         | No         | 22        | 9.091     | n/a        | n/a        | 0.01        | NP        |
| Total Dissolved Solids (mg/L) | BAW-2 (bg)        | -5.236          | -4          | -25        | No         | 9         | 0         | n/a        | n/a        | 0.01        | NP        |
| Total Dissolved Solids (mg/L) | BAW-2A (bg)       | 0.8816          | 7           | 38         | No         | 12        | 0         | n/a        | n/a        | 0.01        | NP        |
| Total Dissolved Solids (mg/L) | BAW-5             | 2.29            | 17          | 92         | No         | 22        | 0         | n/a        | n/a        | 0.01        | NP        |

### Sen's Slope Estimator

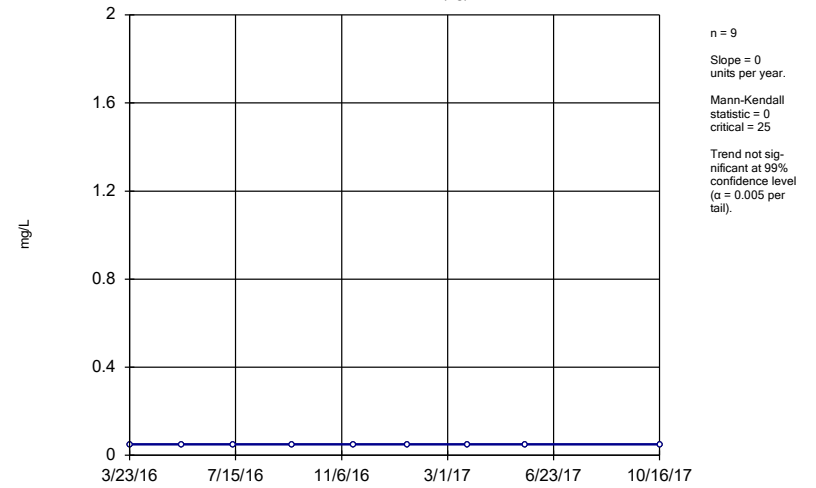
BAW-1 (bg)



Constituent: Boron Analysis Run 5/10/2023 2:45 PM View: Trend Tests  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Sen's Slope Estimator

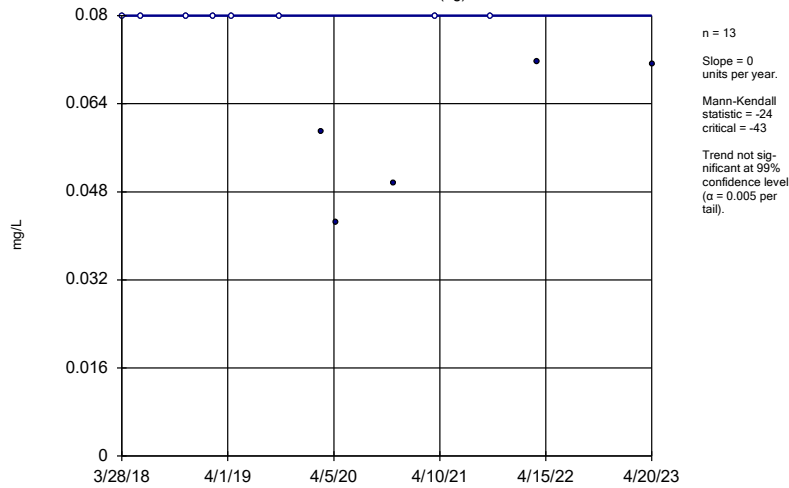
BAW-2 (bg)



Constituent: Boron Analysis Run 5/10/2023 2:45 PM View: Trend Tests  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Sen's Slope Estimator

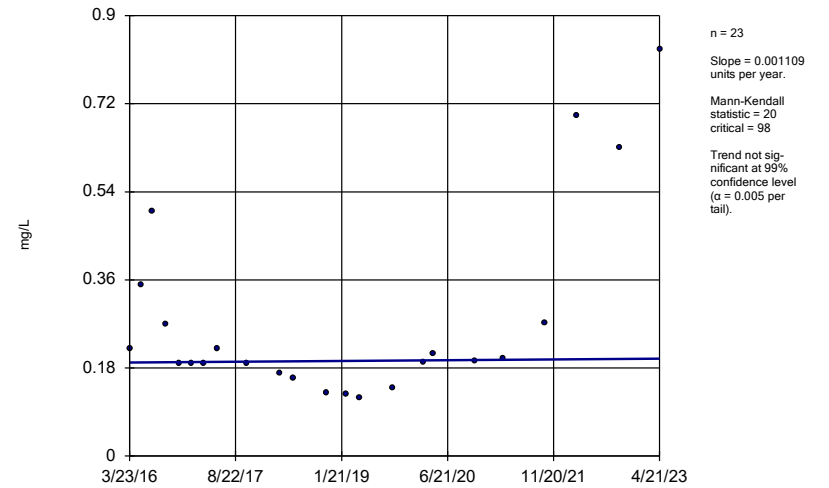
BAW-2A (bg)



Constituent: Boron Analysis Run 5/10/2023 2:45 PM View: Trend Tests  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Sen's Slope Estimator

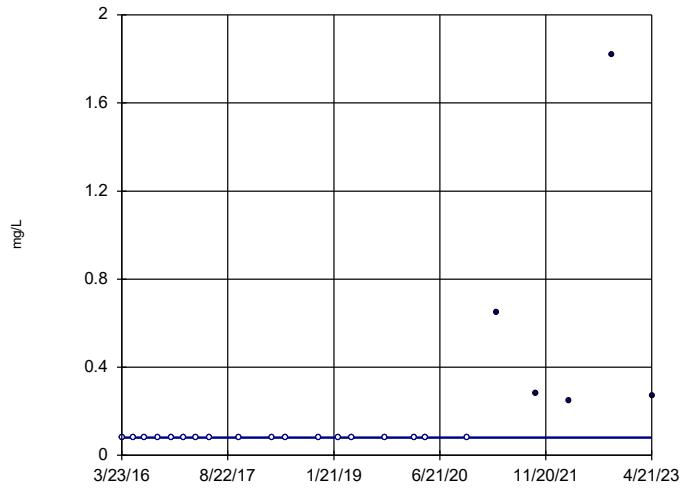
BAW-5



Constituent: Boron Analysis Run 5/10/2023 2:45 PM View: Trend Tests  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

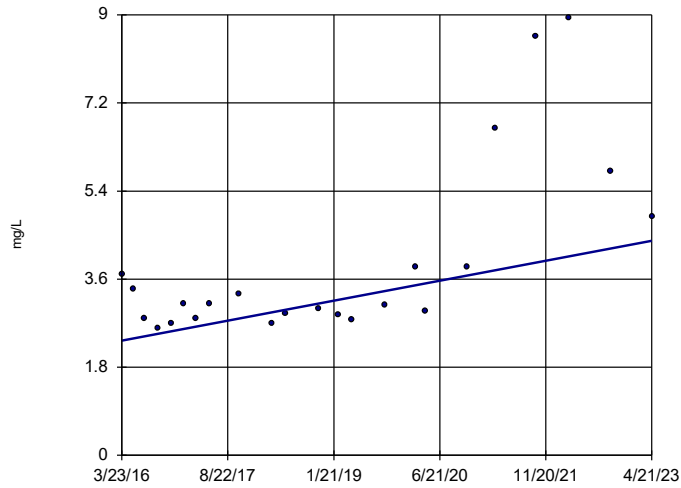
### Sen's Slope Estimator

BAW-7



### Sen's Slope Estimator

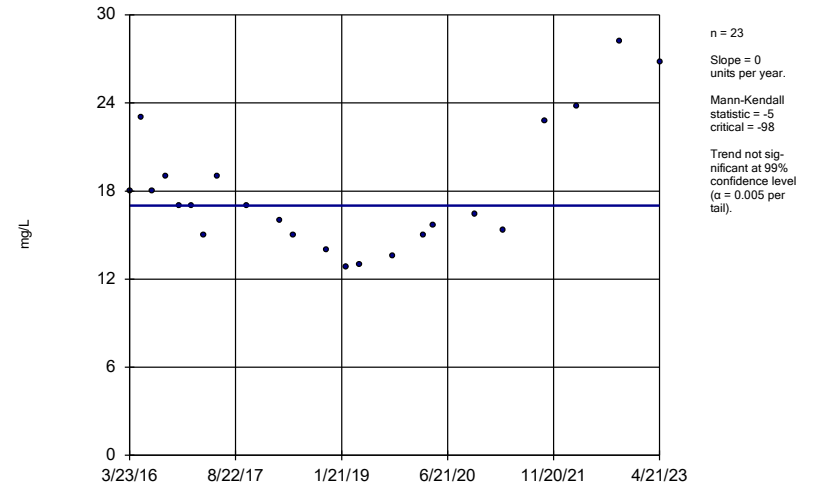
BAW-4



Constituent: Calcium Analysis Run 5/10/2023 2:45 PM View: Trend Tests  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Sen's Slope Estimator

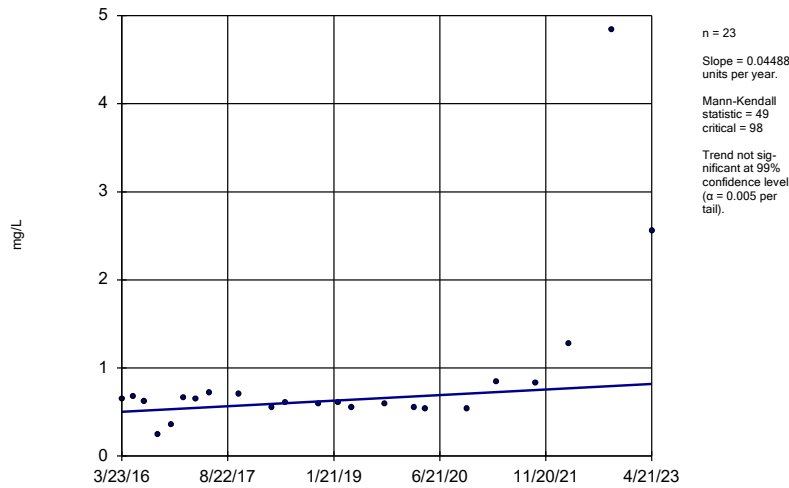
BAW-5



Constituent: Calcium Analysis Run 5/10/2023 2:45 PM View: Trend Tests  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Sen's Slope Estimator

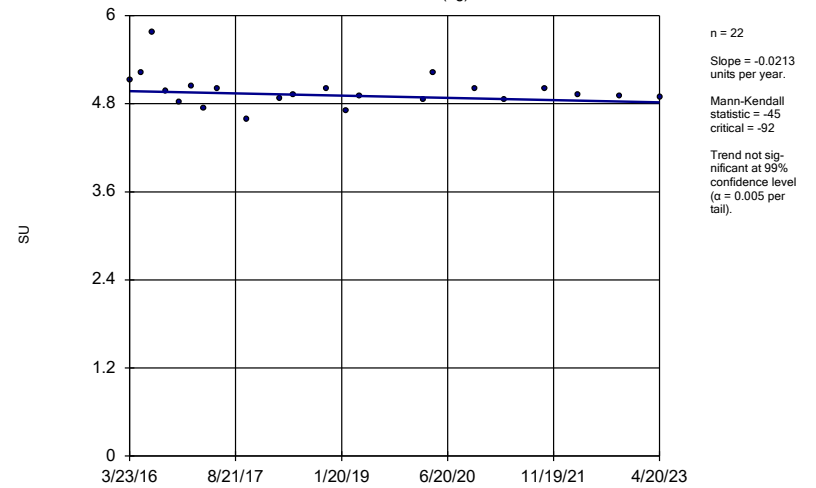
BAW-7



Constituent: Calcium Analysis Run 5/10/2023 2:45 PM View: Trend Tests  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Sen's Slope Estimator

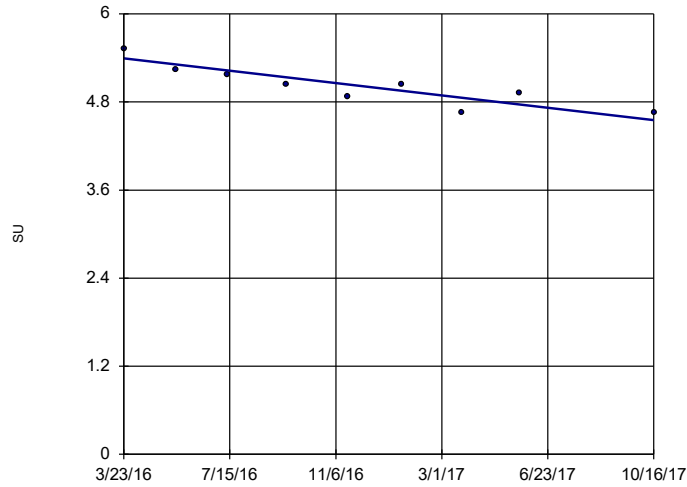
BAW-1 (bg)



Constituent: pH Analysis Run 5/10/2023 2:45 PM View: Trend Tests  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Sen's Slope Estimator

BAW-2 (bg)

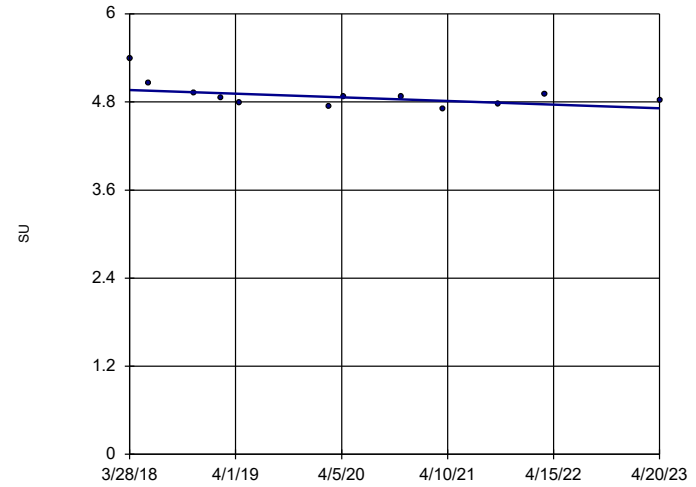


n = 9  
 Slope = -0.5393 units per year.  
 Mann-Kendall statistic = -29  
 critical = -25  
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 5/10/2023 2:45 PM View: Trend Tests  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Sen's Slope Estimator

BAW-2A (bg)

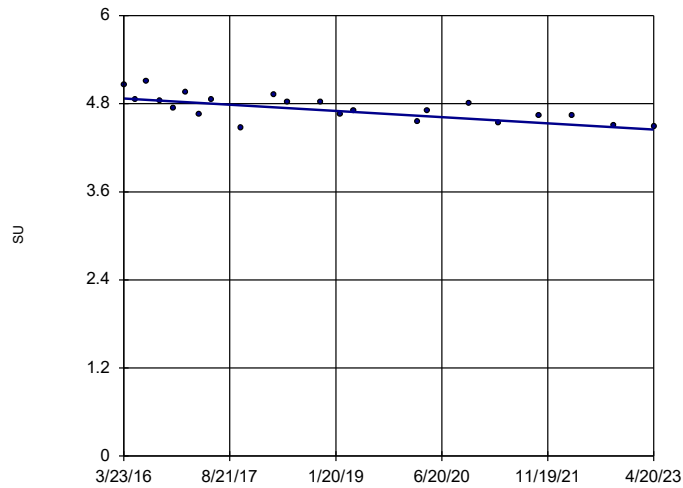


n = 12  
 Slope = -0.04932 units per year.  
 Mann-Kendall statistic = -27  
 critical = -38  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 5/10/2023 2:45 PM View: Trend Tests  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Sen's Slope Estimator

BAW-3

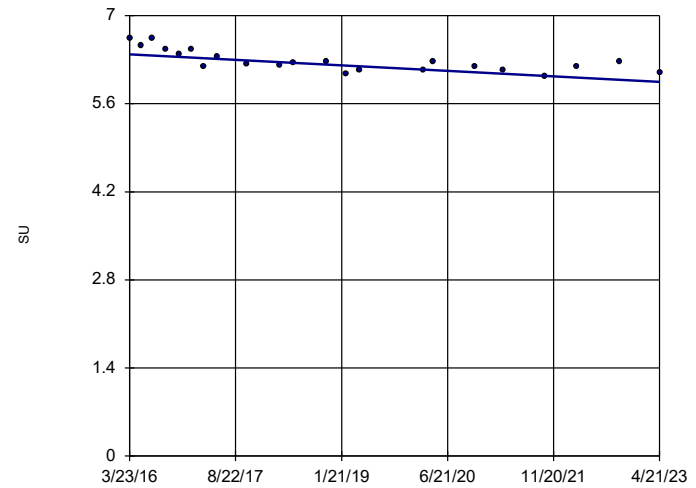


n = 22  
 Slope = -0.05974 units per year.  
 Mann-Kendall statistic = -137  
 critical = -92  
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 5/10/2023 2:45 PM View: Trend Tests  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Sen's Slope Estimator

BAW-5



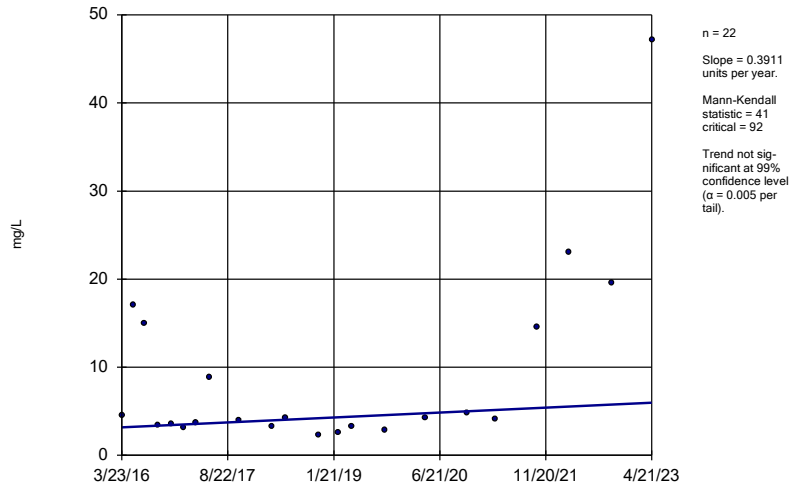
n = 22  
 Slope = -0.06166 units per year.  
 Mann-Kendall statistic = -132  
 critical = -92  
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 5/10/2023 2:45 PM View: Trend Tests  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR



### Sen's Slope Estimator

BAW-5

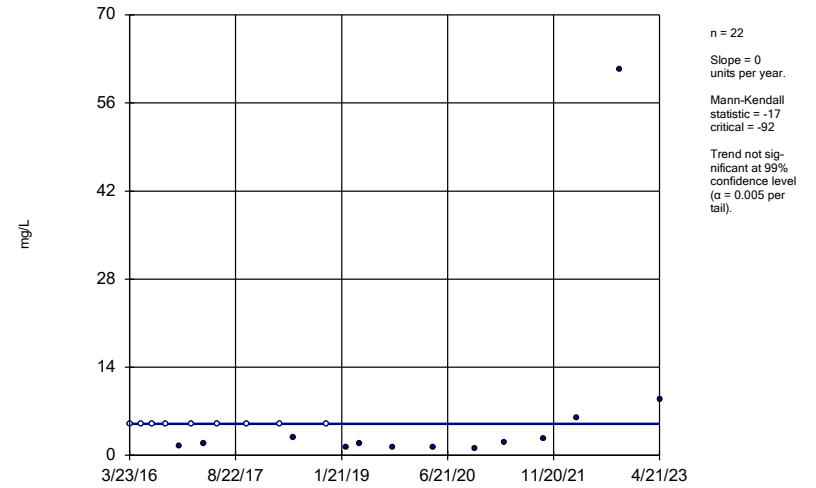


Constituent: Sulfate Analysis Run 5/10/2023 2:45 PM View: Trend Tests  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Hollow symbols indicate censored values.

### Sen's Slope Estimator

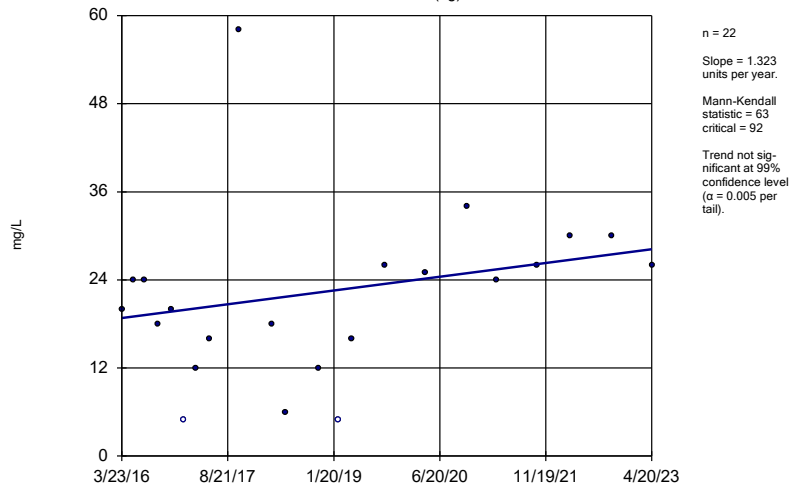
BAW-7



Constituent: Sulfate Analysis Run 5/10/2023 2:45 PM View: Trend Tests  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Sen's Slope Estimator

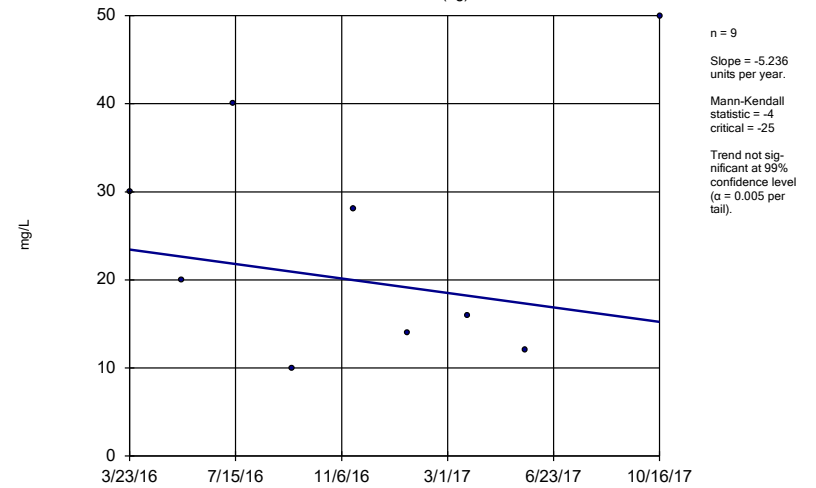
BAW-1 (bg)



Constituent: Total Dissolved Solids Analysis Run 5/10/2023 2:45 PM View: Trend Tests  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Sen's Slope Estimator

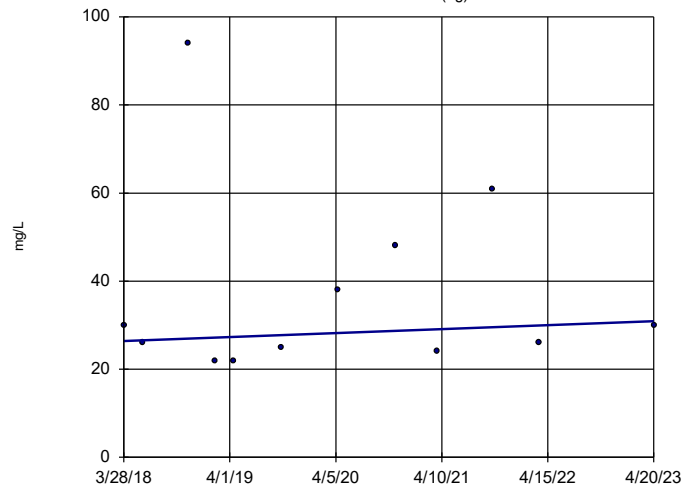
BAW-2 (bg)



Constituent: Total Dissolved Solids Analysis Run 5/10/2023 2:46 PM View: Trend Tests  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Sen's Slope Estimator

BAW-2A (bg)

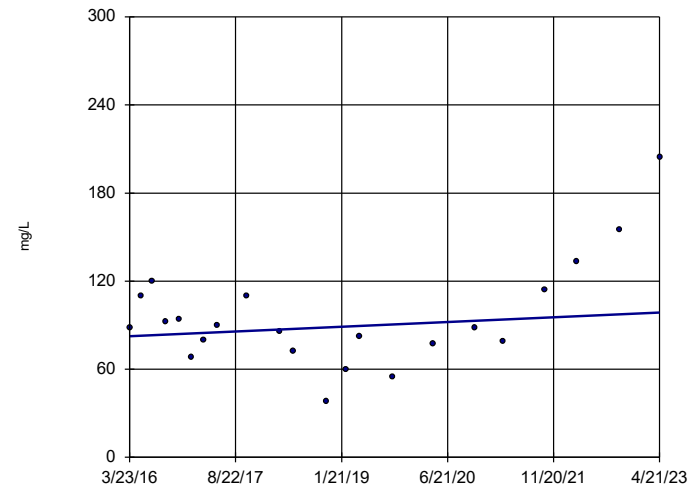


n = 12  
Slope = 0.8816  
units per year.  
Mann-Kendall  
statistic = 7  
critical = 38  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Total Dissolved Solids Analysis Run 5/10/2023 2:46 PM View: Trend Tests  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Sen's Slope Estimator

BAW-5



n = 22  
Slope = 2.29  
units per year.  
Mann-Kendall  
statistic = 17  
critical = 92  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Total Dissolved Solids Analysis Run 5/10/2023 2:46 PM View: Trend Tests  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR



FIGURE F.

# Upper Tolerance Limits Summary Table

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 6/7/2023, 8:58 AM

| Constituent                       | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig.Bg N | Bg Mean | Std. Dev. | %NDs  | ND Adj. | Transform Alpha | Method                     |
|-----------------------------------|------|------------|------------|------|---------|----------|---------|-----------|-------|---------|-----------------|----------------------------|
| Antimony (mg/L)                   | n/a  | 0.002      | n/a        | n/a  | n/a     | n/a 37   | n/a     | n/a       | 97.3  | n/a     | n/a             | 0.1499 NP Inter(NDs)       |
| Arsenic (mg/L)                    | n/a  | 0.001      | n/a        | n/a  | n/a     | n/a 43   | n/a     | n/a       | 100   | n/a     | n/a             | 0.1102 NP Inter(NDs)       |
| Barium (mg/L)                     | n/a  | 0.0512     | n/a        | n/a  | n/a     | n/a 43   | n/a     | n/a       | 2.326 | n/a     | n/a             | 0.1102 NP Inter(normality) |
| Beryllium (mg/L)                  | n/a  | 0.001      | n/a        | n/a  | n/a     | n/a 39   | n/a     | n/a       | 97.44 | n/a     | n/a             | 0.1353 NP Inter(NDs)       |
| Cadmium (mg/L)                    | n/a  | 0.001      | n/a        | n/a  | n/a     | n/a 43   | n/a     | n/a       | 97.67 | n/a     | n/a             | 0.1102 NP Inter(NDs)       |
| Chromium (mg/L)                   | n/a  | 0.00286    | n/a        | n/a  | n/a     | n/a 41   | n/a     | n/a       | 90.24 | n/a     | n/a             | 0.1221 NP Inter(NDs)       |
| Cobalt (mg/L)                     | n/a  | 0.002      | n/a        | n/a  | n/a     | n/a 43   | n/a     | n/a       | 6.977 | n/a     | n/a             | 0.1102 NP Inter(normality) |
| Combined Radium 226 + 228 (pCi/L) | n/a  | 2.5        | n/a        | n/a  | n/a     | n/a 43   | n/a     | n/a       | 4.651 | n/a     | n/a             | 0.1102 NP Inter(normality) |
| Fluoride (mg/L)                   | n/a  | 0.1        | n/a        | n/a  | n/a     | n/a 45   | n/a     | n/a       | 88.89 | n/a     | n/a             | 0.09944 NP Inter(NDs)      |
| Lead (mg/L)                       | n/a  | 0.001      | n/a        | n/a  | n/a     | n/a 41   | n/a     | n/a       | 100   | n/a     | n/a             | 0.1221 NP Inter(NDs)       |
| Lithium (mg/L)                    | n/a  | 0.00505    | n/a        | n/a  | n/a     | n/a 42   | n/a     | n/a       | 69.05 | n/a     | n/a             | 0.116 NP Inter(NDs)        |
| Mercury (mg/L)                    | n/a  | 0.0002     | n/a        | n/a  | n/a     | n/a 35   | n/a     | n/a       | 94.29 | n/a     | n/a             | 0.1661 NP Inter(NDs)       |
| Molybdenum (mg/L)                 | n/a  | 0.005      | n/a        | n/a  | n/a     | n/a 39   | n/a     | n/a       | 89.74 | n/a     | n/a             | 0.1353 NP Inter(NDs)       |
| Selenium (mg/L)                   | n/a  | 0.005      | n/a        | n/a  | n/a     | n/a 39   | n/a     | n/a       | 84.62 | n/a     | n/a             | 0.1353 NP Inter(NDs)       |
| Thallium (mg/L)                   | n/a  | 0.001      | n/a        | n/a  | n/a     | n/a 39   | n/a     | n/a       | 97.44 | n/a     | n/a             | 0.1353 NP Inter(NDs)       |

FIGURE G.

| <b>PLANT DANIEL BOTTOM ASH GWPS</b> |            |                           |                         |             |
|-------------------------------------|------------|---------------------------|-------------------------|-------------|
| <b>Constituent Name</b>             | <b>MCL</b> | <b>CCR-Rule Specified</b> | <b>Background Limit</b> | <b>GWPS</b> |
| Antimony, Total (mg/L)              | 0.006      |                           | 0.002                   | 0.006       |
| Arsenic, Total (mg/L)               | 0.01       |                           | 0.001                   | 0.01        |
| Barium, Total (mg/L)                | 2          |                           | 0.051                   | 2           |
| Beryllium, Total (mg/L)             | 0.004      |                           | 0.001                   | 0.004       |
| Cadmium, Total (mg/L)               | 0.005      |                           | 0.001                   | 0.005       |
| Chromium, Total (mg/L)              | 0.1        |                           | 0.0029                  | 0.1         |
| Cobalt, Total (mg/L)                | n/a        | 0.006                     | 0.002                   | 0.006       |
| Combined Radium, Total (pCi/L)      | 5          |                           | 2.5                     | 5           |
| Fluoride, Total (mg/L)              | 4          |                           | 0.1                     | 4           |
| Lead, Total (mg/L)                  | 0.015      |                           | 0.001                   | 0.015       |
| Lithium, Total (mg/L)               | n/a        | 0.04                      | 0.0051                  | 0.04        |
| Mercury, Total (mg/L)               | 0.002      |                           | 0.0002                  | 0.002       |
| Molybdenum, Total (mg/L)            | n/a        | 0.1                       | 0.005                   | 0.1         |
| Selenium, Total (mg/L)              | 0.05       |                           | 0.005                   | 0.05        |
| Thallium, Total (mg/L)              | 0.002      |                           | 0.001                   | 0.002       |

\*MCL = Maximum Contaminant Level

\*CCR = Coal Combustion Residuals

\*GWPS = Groundwater Protection Standard

FIGURE H.

# Confidence Intervals - Significant Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 6/7/2023, 9:00 AM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Compliance</u> | <u>Sig.</u> | <u>N</u> | <u>Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|--------------------|-------------|-------------------|-------------------|-------------------|-------------|----------|-------------|------------------|-------------|----------------|------------------|--------------|---------------|
| Lithium (mg/L)     | BAW-5       | 0.1885            | 0.1449            | 0.04              | Yes         | 22       | 0.1608      | 0.05013          | 0           | None           | x^2              | 0.01         | Param.        |

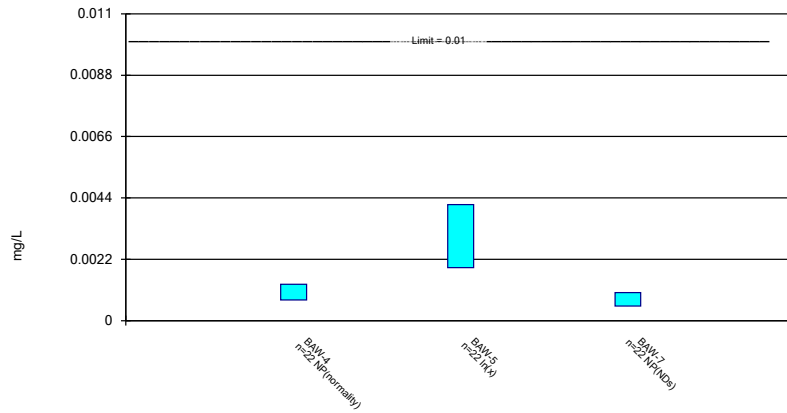
# Confidence Intervals - All Results

Plant Daniel    Client: Southern Company    Data: Bottom Ash CCR    Printed 6/7/2023, 9:00 AM

| Constituent                       | Well         | Upper Lim.    | Lower Lim.    | Compliance  | Sig.       | N         | Mean          | Std. Dev.      | %NDs     | ND Adj.      | Transform  | Alpha       | Method         |
|-----------------------------------|--------------|---------------|---------------|-------------|------------|-----------|---------------|----------------|----------|--------------|------------|-------------|----------------|
| Arsenic (mg/L)                    | BAW-4        | 0.0013        | 0.000737      | 0.01        | No         | 22        | 0.001472      | 0.001319       | 18.18    | None         | No         | 0.01        | NP (normality) |
| Arsenic (mg/L)                    | BAW-5        | 0.004159      | 0.001899      | 0.01        | No         | 22        | 0.003733      | 0.003305       | 0        | None         | ln(x)      | 0.01        | Param.         |
| Arsenic (mg/L)                    | BAW-7        | 0.001         | 0.00052       | 0.01        | No         | 22        | 0.0009555     | 0.0001442      | 90.91    | None         | No         | 0.01        | NP (NDs)       |
| Barium (mg/L)                     | BAW-3        | 0.03128       | 0.02286       | 2           | No         | 22        | 0.02707       | 0.007847       | 0        | None         | No         | 0.01        | Param.         |
| Barium (mg/L)                     | BAW-4        | 0.012         | 0.0091        | 2           | No         | 22        | 0.01336       | 0.007388       | 0        | None         | No         | 0.01        | NP (normality) |
| Barium (mg/L)                     | BAW-5        | 0.0493        | 0.041         | 2           | No         | 22        | 0.04865       | 0.01527        | 0        | None         | No         | 0.01        | NP (normality) |
| Barium (mg/L)                     | BAW-7        | 0.014         | 0.011         | 2           | No         | 22        | 0.01779       | 0.01795        | 0        | None         | No         | 0.01        | NP (normality) |
| Beryllium (mg/L)                  | BAW-3        | 0.001         | 0.000225      | 0.004       | No         | 20        | 0.0009613     | 0.0001733      | 95       | None         | No         | 0.01        | NP (NDs)       |
| Beryllium (mg/L)                  | BAW-7        | 0.001         | 0.000185      | 0.004       | No         | 20        | 0.0009593     | 0.0001822      | 95       | None         | No         | 0.01        | NP (NDs)       |
| Cadmium (mg/L)                    | BAW-3        | 0.0008835     | 0.0005845     | 0.005       | No         | 22        | 0.000734      | 0.0002785      | 4.545    | None         | No         | 0.01        | Param.         |
| Cadmium (mg/L)                    | BAW-5        | 0.001         | 0.000155      | 0.005       | No         | 22        | 0.0009616     | 0.0001802      | 95.45    | None         | No         | 0.01        | NP (NDs)       |
| Chromium (mg/L)                   | BAW-3        | 0.003         | 0.00165       | 0.1         | No         | 21        | 0.002845      | 0.003732       | 85.71    | None         | No         | 0.01        | NP (NDs)       |
| Chromium (mg/L)                   | BAW-4        | 0.002         | 0.0015        | 0.1         | No         | 21        | 0.00191       | 0.0002385      | 85.71    | None         | No         | 0.01        | NP (NDs)       |
| Chromium (mg/L)                   | BAW-5        | 0.0024        | 0.0012        | 0.1         | No         | 21        | 0.002124      | 0.0006884      | 85.71    | None         | No         | 0.01        | NP (NDs)       |
| Chromium (mg/L)                   | BAW-7        | 0.00206       | 0.002         | 0.1         | No         | 21        | 0.002003      | 0.00001309     | 95.24    | None         | No         | 0.01        | NP (NDs)       |
| Cobalt (mg/L)                     | BAW-3        | 0.006429      | 0.004958      | 0.006       | No         | 22        | 0.005694      | 0.001371       | 0        | None         | No         | 0.01        | Param.         |
| Cobalt (mg/L)                     | BAW-4        | 0.001371      | 0.001023      | 0.006       | No         | 22        | 0.001212      | 0.0003442      | 0        | None         | sqrt(x)    | 0.01        | Param.         |
| Cobalt (mg/L)                     | BAW-5        | 0.000802      | 0.0005        | 0.006       | No         | 22        | 0.0006759     | 0.0005147      | 77.27    | None         | No         | 0.01        | NP (NDs)       |
| Cobalt (mg/L)                     | BAW-7        | 0.0011        | 0.00071       | 0.006       | No         | 22        | 0.001148      | 0.001023       | 0        | None         | No         | 0.01        | NP (normality) |
| Combined Radium 226 + 228 (pCi/L) | BAW-3        | 0.78          | 0.27          | 5           | No         | 22        | 0.6151        | 0.7057         | 9.091    | None         | No         | 0.01        | NP (normality) |
| Combined Radium 226 + 228 (pCi/L) | BAW-4        | 0.7281        | 0.1135        | 5           | No         | 22        | 0.6049        | 0.8067         | 13.64    | None         | x^(1/3)    | 0.01        | Param.         |
| Combined Radium 226 + 228 (pCi/L) | BAW-5        | 0.915         | 0.366         | 5           | No         | 21        | 0.7063        | 0.5959         | 4.762    | None         | sqrt(x)    | 0.01        | Param.         |
| Combined Radium 226 + 228 (pCi/L) | BAW-7        | 1.056         | 0.307         | 5           | No         | 22        | 0.8108        | 0.8255         | 13.64    | None         | sqrt(x)    | 0.01        | Param.         |
| Fluoride (mg/L)                   | BAW-3        | 0.1           | 0.034         | 4           | No         | 23        | 0.09412       | 0.0195         | 91.3     | None         | No         | 0.01        | NP (NDs)       |
| Fluoride (mg/L)                   | BAW-4        | 0.0544        | 0.04          | 4           | No         | 23        | 0.05795       | 0.02625        | 26.09    | None         | No         | 0.01        | NP (normality) |
| Fluoride (mg/L)                   | BAW-5        | 0.0665        | 0.05          | 4           | No         | 23        | 0.06417       | 0.02764        | 4.348    | None         | No         | 0.01        | NP (normality) |
| Fluoride (mg/L)                   | BAW-7        | 0.1           | 0.0415        | 4           | No         | 23        | 0.09427       | 0.01913        | 91.3     | None         | No         | 0.01        | NP (NDs)       |
| Lead (mg/L)                       | BAW-3        | 0.001         | 0.000236      | 0.015       | No         | 21        | 0.000687      | 0.0003818      | 57.14    | None         | No         | 0.01        | NP (NDs)       |
| Lead (mg/L)                       | BAW-4        | 0.001         | 0.00042       | 0.015       | No         | 21        | 0.0008645     | 0.0002911      | 80.95    | None         | No         | 0.01        | NP (NDs)       |
| Lead (mg/L)                       | BAW-5        | 0.001         | 0.000152      | 0.015       | No         | 21        | 0.0009596     | 0.000185       | 95.24    | None         | No         | 0.01        | NP (NDs)       |
| Lead (mg/L)                       | BAW-7        | 0.001         | 0.000129      | 0.015       | No         | 21        | 0.0009585     | 0.0001901      | 95.24    | None         | No         | 0.01        | NP (NDs)       |
| Lithium (mg/L)                    | BAW-3        | 0.005         | 0.00322       | 0.04        | No         | 22        | 0.004348      | 0.001284       | 63.64    | None         | No         | 0.01        | NP (NDs)       |
| Lithium (mg/L)                    | BAW-4        | 0.02669       | 0.01829       | 0.04        | No         | 22        | 0.02249       | 0.007821       | 0        | None         | No         | 0.01        | Param.         |
| <b>Lithium (mg/L)</b>             | <b>BAW-5</b> | <b>0.1885</b> | <b>0.1449</b> | <b>0.04</b> | <b>Yes</b> | <b>22</b> | <b>0.1608</b> | <b>0.05013</b> | <b>0</b> | <b>None</b>  | <b>x^2</b> | <b>0.01</b> | <b>Param.</b>  |
| Lithium (mg/L)                    | BAW-7        | 0.005         | 0.00375       | 0.04        | No         | 22        | 0.004986      | 0.002315       | 54.55    | None         | No         | 0.01        | NP (NDs)       |
| Mercury (mg/L)                    | BAW-3        | 0.000497      | 0.00013       | 0.002       | No         | 18        | 0.0002062     | 0.00007892     | 83.33    | None         | No         | 0.01        | NP (NDs)       |
| Mercury (mg/L)                    | BAW-4        | 0.0002        | 0.00013       | 0.002       | No         | 18        | 0.0001891     | 0.00003332     | 88.89    | None         | No         | 0.01        | NP (NDs)       |
| Mercury (mg/L)                    | BAW-5        | 0.0002        | 0.000074      | 0.002       | No         | 18        | 0.000193      | 0.0000297      | 94.44    | None         | No         | 0.01        | NP (NDs)       |
| Mercury (mg/L)                    | BAW-7        | 0.000235      | 0.000151      | 0.002       | No         | 18        | 0.0002476     | 0.00024        | 77.78    | None         | No         | 0.01        | NP (NDs)       |
| Molybdenum (mg/L)                 | BAW-4        | 0.015         | 0.00109       | 0.1         | No         | 20        | 0.01089       | 0.006455       | 70       | None         | No         | 0.01        | NP (NDs)       |
| Molybdenum (mg/L)                 | BAW-5        | 0.003781      | 0.0015        | 0.1         | No         | 20        | 0.006679      | 0.0059         | 30       | Kaplan-Meier | x^(1/3)    | 0.01        | Param.         |
| Molybdenum (mg/L)                 | BAW-7        | 0.005         | 0.0038        | 0.1         | No         | 20        | 0.00494       | 0.0002683      | 95       | Kaplan-Meier | No         | 0.01        | NP (NDs)       |
| Selenium (mg/L)                   | BAW-3        | 0.005         | 0.00041       | 0.05        | No         | 20        | 0.003419      | 0.002215       | 65       | None         | No         | 0.01        | NP (NDs)       |
| Selenium (mg/L)                   | BAW-5        | 0.005         | 0.00033       | 0.05        | No         | 20        | 0.004766      | 0.001044       | 95       | None         | No         | 0.01        | NP (NDs)       |
| Selenium (mg/L)                   | BAW-7        | 0.005         | 0.0021        | 0.05        | No         | 20        | 0.003914      | 0.001964       | 75       | None         | No         | 0.01        | NP (NDs)       |
| Thallium (mg/L)                   | BAW-3        | 0.001         | 0.000276      | 0.002       | No         | 20        | 0.0008307     | 0.0003491      | 80       | None         | No         | 0.01        | NP (NDs)       |
| Thallium (mg/L)                   | BAW-7        | 0.001         | 0.000153      | 0.002       | No         | 20        | 0.0009577     | 0.0001894      | 95       | None         | No         | 0.01        | NP (NDs)       |

Parametric and Non-Parametric (NP) Confidence Interval

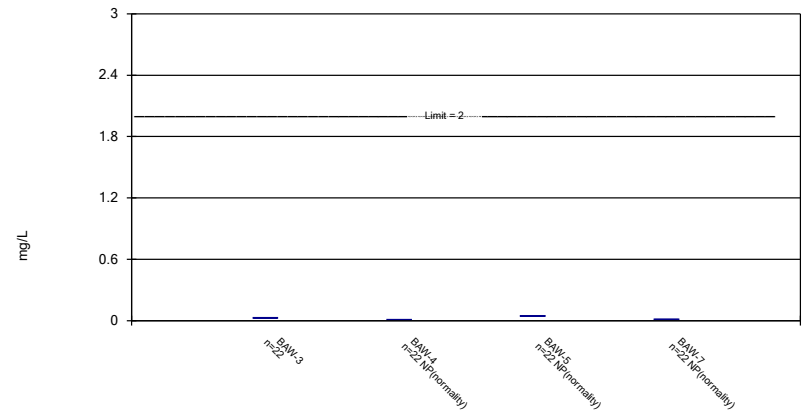
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 6/7/2023 8:58 AM View: Appendix IV  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Parametric and Non-Parametric (NP) Confidence Interval

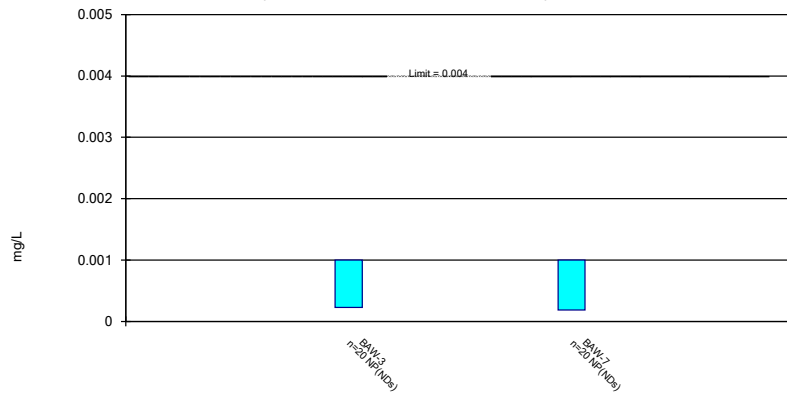
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 6/7/2023 8:58 AM View: Appendix IV  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Non-Parametric Confidence Interval

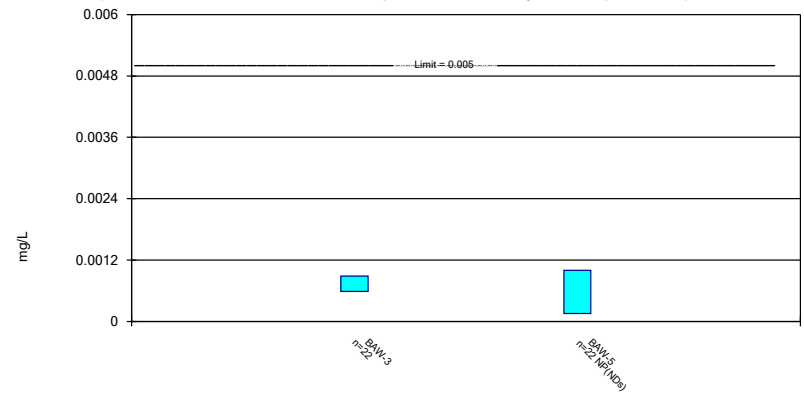
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium Analysis Run 6/7/2023 8:58 AM View: Appendix IV  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Parametric and Non-Parametric (NP) Confidence Interval

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

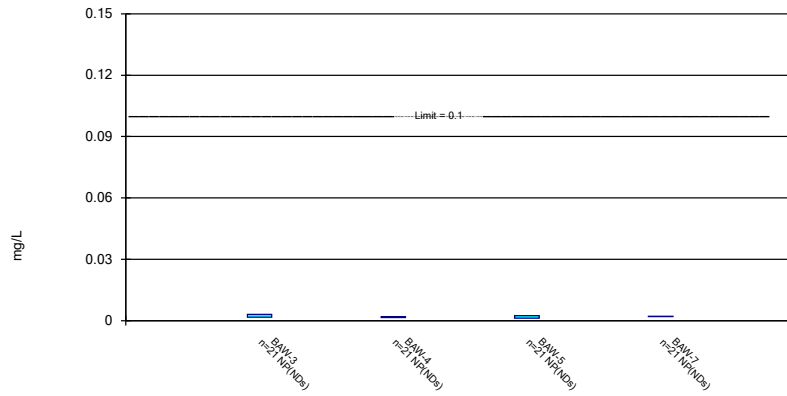


Constituent: Cadmium Analysis Run 6/7/2023 8:58 AM View: Appendix IV  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR



### Non-Parametric Confidence Interval

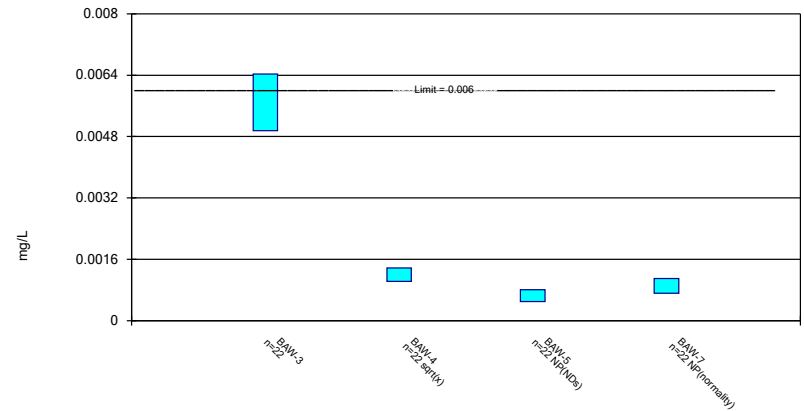
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 6/7/2023 8:58 AM View: Appendix IV  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Parametric and Non-Parametric (NP) Confidence Interval

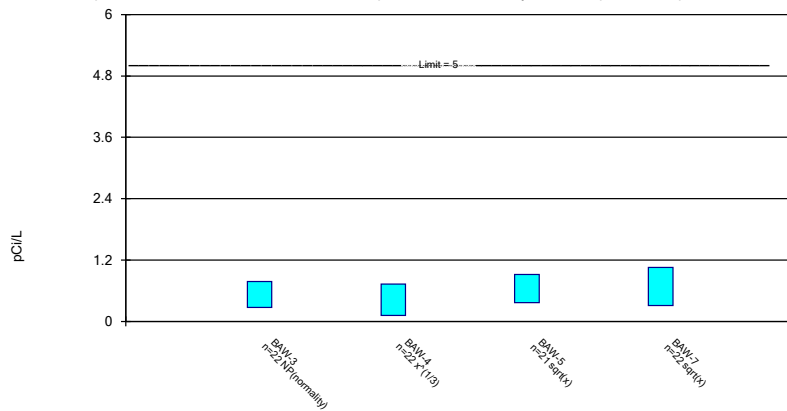
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 6/7/2023 8:58 AM View: Appendix IV  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Parametric and Non-Parametric (NP) Confidence Interval

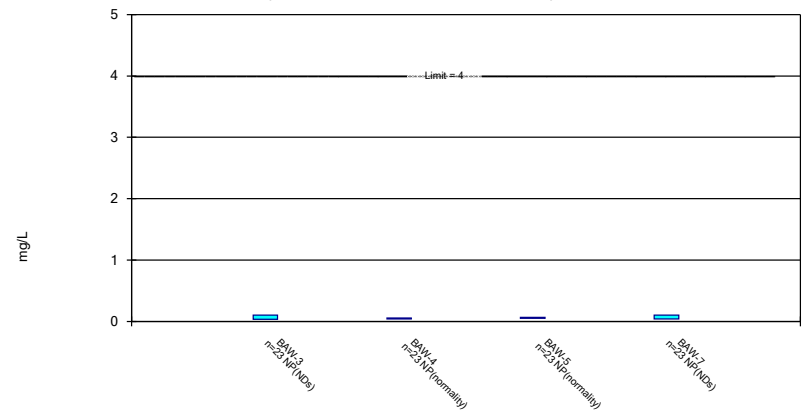
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 6/7/2023 8:58 AM View: Appendix IV  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Non-Parametric Confidence Interval

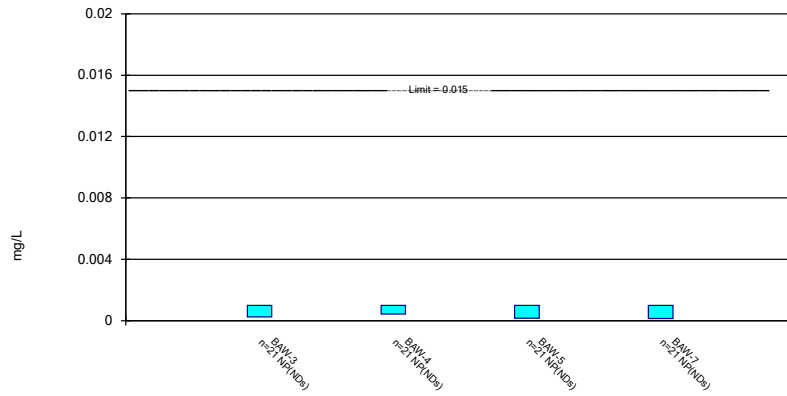
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Fluoride Analysis Run 6/7/2023 8:58 AM View: Appendix IV  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Non-Parametric Confidence Interval

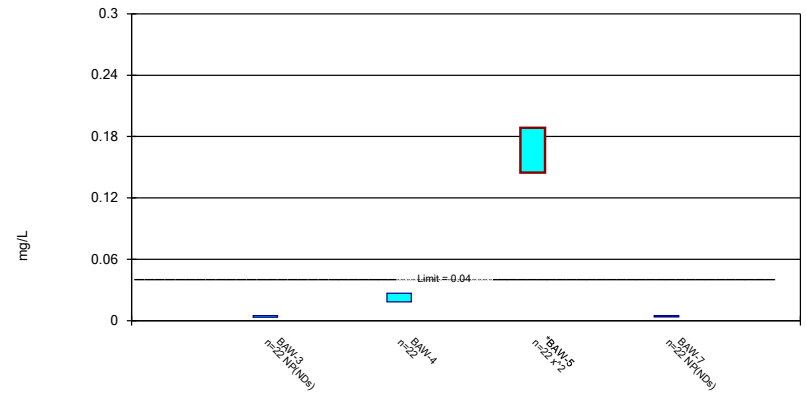
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 6/7/2023 8:58 AM View: Appendix IV  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Parametric and Non-Parametric (NP) Confidence Interval

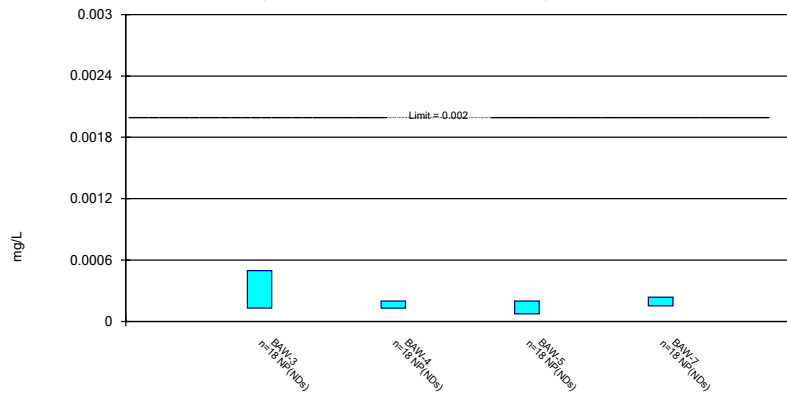
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 6/7/2023 8:58 AM View: Appendix IV  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Non-Parametric Confidence Interval

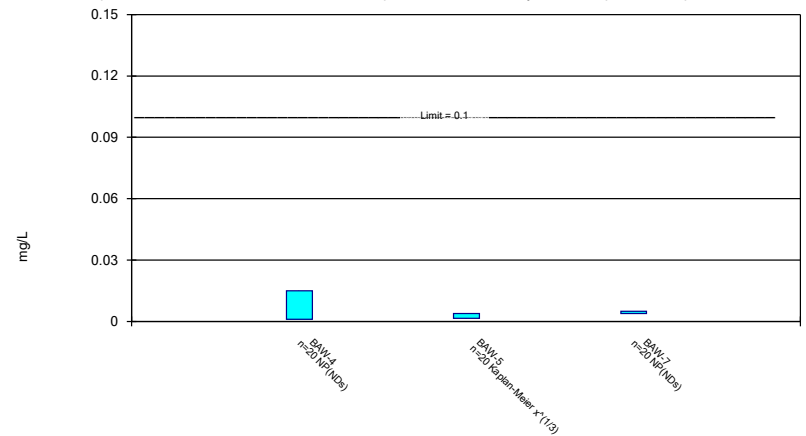
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 6/7/2023 8:58 AM View: Appendix IV  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Parametric and Non-Parametric (NP) Confidence Interval

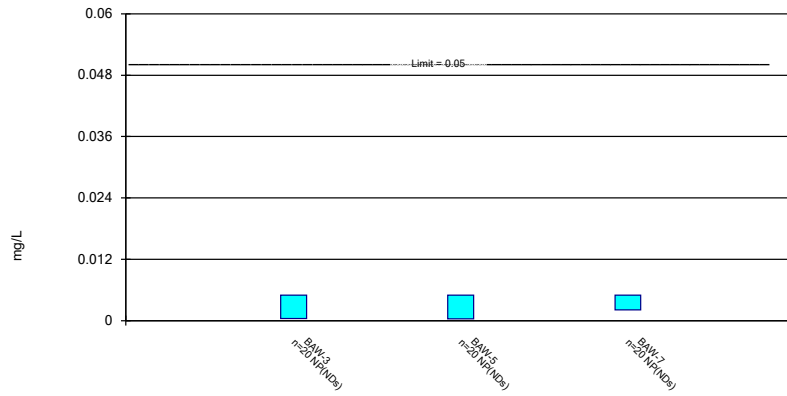
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 6/7/2023 8:58 AM View: Appendix IV  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Non-Parametric Confidence Interval

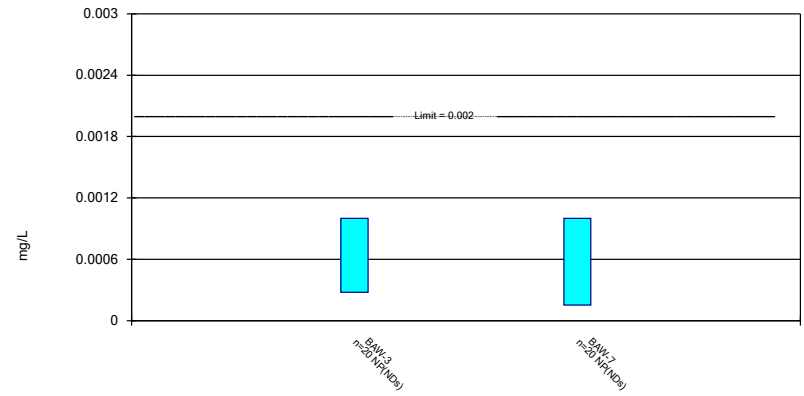
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 6/7/2023 8:58 AM View: Appendix IV  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 6/7/2023 8:58 AM View: Appendix IV  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 6/7/2023 9:00 AM View: Appendix IV

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-4        | BAW-5       | BAW-7       |
|------------|--------------|-------------|-------------|
| 3/23/2016  | 0.00087 (J)  | 0.0033      | <0.001      |
| 5/17/2016  | <0.0013      | 0.00089 (J) | <0.001      |
| 7/12/2016  |              |             | <0.001      |
| 7/13/2016  | 0.00081 (J)  | 0.0039      |             |
| 9/13/2016  |              | 0.0039      | <0.001      |
| 9/14/2016  | 0.00069 (J)  |             |             |
| 11/19/2016 | 0.0013       | 0.0037      | 0.0005 (J)  |
| 1/17/2017  |              |             | <0.001      |
| 1/18/2017  | <0.0013      | 0.0016      |             |
| 3/22/2017  |              |             | 0.00052 (J) |
| 3/23/2017  | 0.00078 (J)  | 0.0017      |             |
| 5/24/2017  | 0.001 (J)    | 0.0021      | <0.001      |
| 3/28/2018  | <0.0013      | 0.0011 (J)  |             |
| 3/29/2018  |              |             | <0.001      |
| 6/2/2018   | 0.00068 (J)  | 0.0017      | <0.001      |
| 11/8/2018  | <0.0013      |             |             |
| 11/9/2018  |              | 0.0021      | <0.001      |
| 2/11/2019  | 0.000737 (J) | 0.00232     |             |
| 2/12/2019  |              |             | <0.001      |
| 4/17/2019  | 0.000645 (J) | 0.00218     |             |
| 4/18/2019  |              |             | <0.001      |
| 9/27/2019  |              |             | <0.001      |
| 9/30/2019  | 0.000821 (J) | 0.00272     |             |
| 2/21/2020  |              |             | <0.001      |
| 2/22/2020  | 0.000837 (J) | 0.00177     |             |
| 4/14/2020  | 0.000896 (J) | 0.00177     | <0.001      |
| 10/30/2020 | 0.000529 (J) | 0.0013      |             |
| 11/2/2020  |              |             | <0.001      |
| 3/17/2021  | 0.000454 (J) | 0.00385     |             |
| 3/26/2021  |              |             | <0.001      |
| 10/5/2021  | 0.00259      |             | <0.001      |
| 10/6/2021  |              | 0.0125      |             |
| 3/16/2022  | 0.00411      | 0.0101      | <0.001      |
| 10/5/2022  | 0.00467      |             |             |
| 10/6/2022  |              | 0.0108      | <0.001      |
| 4/21/2023  | 0.00477      | 0.00683     | <0.001      |
| Mean       | 0.001472     | 0.003733    | 0.0009555   |
| Std. Dev.  | 0.001319     | 0.003305    | 0.0001442   |
| Upper Lim. | 0.0013       | 0.004159    | 0.001       |
| Lower Lim. | 0.000737     | 0.001899    | 0.00052     |

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 6/7/2023 9:00 AM View: Appendix IV

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-3    | BAW-4       | BAW-5   | BAW-7   |
|------------|----------|-------------|---------|---------|
| 3/23/2016  | 0.013    | 0.011       | 0.044   | 0.013   |
| 5/17/2016  |          | 0.0085      | 0.055   | 0.012   |
| 5/18/2016  | 0.012    |             |         |         |
| 7/12/2016  |          |             |         | 0.011   |
| 7/13/2016  | 0.016    | 0.0073      | 0.041   |         |
| 9/13/2016  |          |             | 0.046   | 0.012   |
| 9/14/2016  | 0.018    | 0.0095      |         |         |
| 11/19/2016 | 0.021    | 0.012       | 0.044   | 0.012   |
| 1/17/2017  | 0.029    |             |         | 0.014   |
| 1/18/2017  |          | 0.0096      | 0.045   |         |
| 3/22/2017  |          |             |         | 0.012   |
| 3/23/2017  | 0.024    | 0.0093      | 0.038   |         |
| 5/24/2017  | 0.022    | 0.0096      | 0.046   | 0.012   |
| 3/28/2018  | 0.026    | 0.0086      | 0.043   |         |
| 3/29/2018  |          |             |         | 0.011   |
| 6/2/2018   | 0.029    | 0.0087      | 0.043   | 0.011   |
| 11/8/2018  | 0.028    | 0.0091      |         |         |
| 11/9/2018  |          |             | 0.039   | 0.011   |
| 2/11/2019  |          | 0.00931     | 0.0388  |         |
| 2/12/2019  | 0.0274   |             |         | 0.0102  |
| 4/17/2019  | 0.0263   | 0.00888     | 0.0378  |         |
| 4/18/2019  |          |             |         | 0.0101  |
| 9/27/2019  |          |             |         | 0.0121  |
| 9/30/2019  | 0.0343   | 0.0103      | 0.0424  |         |
| 2/21/2020  | 0.0304   |             |         | 0.0117  |
| 2/22/2020  |          | 0.0108      | 0.0453  |         |
| 4/14/2020  | 0.0335   | 0.00949 (J) | 0.0452  | 0.0124  |
| 10/30/2020 | 0.0349   | 0.0116      | 0.0428  |         |
| 11/2/2020  |          |             |         | 0.0117  |
| 3/17/2021  |          | 0.0224      | 0.0382  |         |
| 3/26/2021  | 0.0253   |             |         | 0.0184  |
| 10/5/2021  |          | 0.0283      |         | 0.02    |
| 10/6/2021  | 0.03     |             | 0.0493  |         |
| 3/16/2022  | 0.037    | 0.0326      | 0.0688  | 0.0245  |
| 10/5/2022  | 0.0415   | 0.0248      |         |         |
| 10/6/2022  |          |             | 0.0747  | 0.0937  |
| 4/20/2023  | 0.0369   |             |         |         |
| 4/21/2023  |          | 0.0223      | 0.103   | 0.0355  |
| Mean       | 0.02707  | 0.01336     | 0.04865 | 0.01779 |
| Std. Dev.  | 0.007847 | 0.007388    | 0.01527 | 0.01795 |
| Upper Lim. | 0.03128  | 0.012       | 0.0493  | 0.014   |
| Lower Lim. | 0.02286  | 0.0091      | 0.041   | 0.011   |

# Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 6/7/2023 9:00 AM View: Appendix IV

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-3        | BAW-7        |
|------------|--------------|--------------|
| 3/23/2016  | <0.001       | <0.001       |
| 5/17/2016  |              | <0.001       |
| 5/18/2016  | <0.001       |              |
| 7/12/2016  |              | <0.001       |
| 7/13/2016  | <0.001       |              |
| 9/13/2016  |              | <0.001       |
| 9/14/2016  | <0.001       |              |
| 11/19/2016 | <0.001       | <0.001       |
| 1/17/2017  | <0.001       | <0.001       |
| 3/22/2017  |              | <0.001       |
| 3/23/2017  | <0.001       |              |
| 5/24/2017  | <0.001       | <0.001       |
| 3/28/2018  | <0.001       |              |
| 3/29/2018  |              | <0.001       |
| 11/8/2018  | <0.001       |              |
| 11/9/2018  |              | <0.001       |
| 2/12/2019  | <0.001       | <0.001       |
| 4/17/2019  | <0.001       |              |
| 4/18/2019  |              | <0.001       |
| 2/21/2020  | <0.001       | <0.001       |
| 4/14/2020  | <0.001       | <0.001       |
| 10/30/2020 | <0.001       |              |
| 11/2/2020  |              | <0.001       |
| 3/26/2021  | <0.001       | <0.001       |
| 10/5/2021  |              | 0.000185 (J) |
| 10/6/2021  | <0.001       |              |
| 3/16/2022  | <0.001       | <0.001       |
| 10/5/2022  | <0.001       |              |
| 10/6/2022  |              | <0.001       |
| 4/20/2023  | 0.000225 (J) |              |
| 4/21/2023  |              | <0.001       |
| Mean       | 0.0009613    | 0.0009593    |
| Std. Dev.  | 0.0001733    | 0.0001822    |
| Upper Lim. | 0.001        | 0.001        |
| Lower Lim. | 0.000225     | 0.000185     |

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 6/7/2023 9:00 AM View: Appendix IV

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-3        | BAW-5        |
|------------|--------------|--------------|
| 3/23/2016  | 0.00041 (J)  | <0.001       |
| 5/17/2016  |              | <0.001       |
| 5/18/2016  | <0.0025      |              |
| 7/13/2016  | 0.00087 (J)  | <0.001       |
| 9/13/2016  |              | <0.001       |
| 9/14/2016  | 0.00078 (J)  |              |
| 11/19/2016 | 0.00054 (J)  | <0.001       |
| 1/17/2017  | 0.00048 (J)  |              |
| 1/18/2017  |              | <0.001       |
| 3/23/2017  | 0.00059 (J)  | <0.001       |
| 5/24/2017  | 0.00081 (J)  | <0.001       |
| 3/28/2018  | 0.0008 (J)   | <0.001       |
| 6/2/2018   | 0.001 (J)    | <0.001       |
| 11/8/2018  | 0.00085 (J)  |              |
| 11/9/2018  |              | <0.001       |
| 2/11/2019  |              | <0.001       |
| 2/12/2019  | 0.000877 (J) |              |
| 4/17/2019  | 0.000915 (J) | <0.001       |
| 9/30/2019  | 0.00112 (J)  | 0.000155 (J) |
| 2/21/2020  | 0.000962 (J) |              |
| 2/22/2020  |              | <0.001       |
| 4/14/2020  | 0.00107 (J)  | <0.001       |
| 10/30/2020 | 0.00084 (J)  | <0.001       |
| 3/17/2021  |              | <0.001       |
| 3/26/2021  | 0.000615 (J) |              |
| 10/6/2021  | 0.000338 (J) | <0.001       |
| 3/16/2022  | 0.000252 (J) | <0.001       |
| 10/5/2022  | 0.000379 (J) |              |
| 10/6/2022  |              | <0.001       |
| 4/20/2023  | 0.0004 (J)   |              |
| 4/21/2023  |              | <0.001       |
| Mean       | 0.000734     | 0.0009616    |
| Std. Dev.  | 0.0002785    | 0.0001802    |
| Upper Lim. | 0.0008835    | 0.001        |
| Lower Lim. | 0.0005845    | 0.000155     |

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 6/7/2023 9:00 AM View: Appendix IV

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-3       | BAW-4      | BAW-5      | BAW-7       |
|------------|-------------|------------|------------|-------------|
| 3/23/2016  | <0.002      | 0.0015 (J) | 0.0012 (J) | <0.002      |
| 5/17/2016  |             | <0.002     | <0.002     | <0.002      |
| 5/18/2016  | <0.002      |            |            |             |
| 7/12/2016  |             |            |            | <0.002      |
| 7/13/2016  | 0.003       | 0.0015 (J) | 0.0024 (J) |             |
| 9/13/2016  |             |            | <0.002     | <0.002      |
| 9/14/2016  | <0.002      | <0.002     |            |             |
| 11/19/2016 | <0.002      | 0.0011 (J) | <0.002     | <0.002      |
| 1/17/2017  | <0.002      |            |            | <0.002      |
| 1/18/2017  |             | <0.002     | <0.002     |             |
| 3/22/2017  |             |            |            | <0.002      |
| 3/23/2017  | <0.002      | <0.002     | <0.002     |             |
| 5/24/2017  | <0.002      | <0.002     | <0.002     | <0.002      |
| 3/28/2018  | <0.002      | <0.002     | 0.005      |             |
| 3/29/2018  |             |            |            | <0.002      |
| 6/2/2018   | <0.002      | <0.002     | <0.002     | <0.002      |
| 11/8/2018  | <0.002      | <0.002     |            |             |
| 11/9/2018  |             |            | <0.002     | <0.002      |
| 2/11/2019  |             | <0.002     | <0.002     |             |
| 2/12/2019  | 0.00165 (J) |            |            | <0.002      |
| 4/17/2019  | <0.002      | <0.002     | <0.002     |             |
| 4/18/2019  |             |            |            | <0.002      |
| 9/27/2019  |             |            |            | 0.00206 (J) |
| 9/30/2019  | <0.002      | <0.002     | <0.002     |             |
| 2/21/2020  | <0.002      |            |            | <0.002      |
| 2/22/2020  |             | <0.002     | <0.002     |             |
| 10/30/2020 | <0.002      | <0.002     | <0.002     |             |
| 11/2/2020  |             |            |            | <0.002      |
| 3/17/2021  |             | <0.002     | <0.002     |             |
| 3/26/2021  | <0.002      |            |            | <0.002      |
| 10/5/2021  |             | <0.002     |            | <0.002      |
| 10/6/2021  | <0.002      |            | <0.002     |             |
| 3/16/2022  | <0.002      | <0.002     | <0.002     | <0.002      |
| 10/5/2022  | 0.0191      | <0.002     |            |             |
| 10/6/2022  |             |            | <0.002     | <0.002      |
| 4/20/2023  | <0.002      |            |            |             |
| 4/21/2023  |             | <0.002     | <0.002     | <0.002      |
| Mean       | 0.002845    | 0.00191    | 0.002124   | 0.002003    |
| Std. Dev.  | 0.003732    | 0.0002385  | 0.0006884  | 1.309E-05   |
| Upper Lim. | 0.003       | 0.002      | 0.0024     | 0.00206     |
| Lower Lim. | 0.00165     | 0.0015     | 0.0012     | 0.002       |



# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 6/7/2023 9:00 AM View: Appendix IV

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-3    | BAW-4        | BAW-5       | BAW-7        |
|------------|----------|--------------|-------------|--------------|
| 3/23/2016  | 0.0055   | 0.00094 (J)  | <0.0005     | 0.0011 (J)   |
| 5/17/2016  |          | 0.0007 (J)   | <0.0005     | 0.001 (J)    |
| 5/18/2016  | 0.0059   |              |             |              |
| 7/12/2016  |          |              |             | 0.00091 (J)  |
| 7/13/2016  | 0.0048   | 0.0016 (J)   | 0.00042 (J) |              |
| 9/13/2016  |          |              | <0.0005     | 0.001 (J)    |
| 9/14/2016  | 0.0063   | 0.0011 (J)   |             |              |
| 11/19/2016 | 0.0056   | 0.0012 (J)   | <0.0005     | 0.00083 (J)  |
| 1/17/2017  | 0.0046   |              |             | 0.00091 (J)  |
| 1/18/2017  |          | 0.0011 (J)   | <0.0005     |              |
| 3/22/2017  |          |              |             | 0.00098 (J)  |
| 3/23/2017  | 0.0049   | 0.0011 (J)   | <0.0005     |              |
| 5/24/2017  | 0.0052   | 0.0012 (J)   | <0.0005     | 0.00098 (J)  |
| 3/28/2018  | 0.0063   | 0.00095 (J)  | <0.0005     |              |
| 3/29/2018  |          |              |             | 0.00063 (J)  |
| 6/2/2018   | 0.0068   | 0.0012 (J)   | <0.0005     | 0.00087 (J)  |
| 11/8/2018  | 0.0068   | 0.0011 (J)   |             |              |
| 11/9/2018  |          |              | <0.0005     | 0.00076 (J)  |
| 2/11/2019  |          | 0.00093 (J)  | <0.0005     |              |
| 2/12/2019  | 0.00552  |              |             | 0.000661 (J) |
| 4/17/2019  | 0.00603  | 0.00116 (J)  | <0.0005     |              |
| 4/18/2019  |          |              |             | 0.000705 (J) |
| 9/27/2019  |          |              |             | 0.00071 (J)  |
| 9/30/2019  | 0.0062   | 0.001 (J)    | <0.0005     |              |
| 2/21/2020  | 0.00576  |              |             | 0.000634 (J) |
| 2/22/2020  |          | 0.000907 (J) | <0.0005     |              |
| 4/14/2020  | 0.00633  | 0.00105 (J)  | <0.0005     | 0.000684 (J) |
| 10/30/2020 | 0.00657  | 0.00102 (J)  | <0.0005     |              |
| 11/2/2020  |          |              |             | 0.000729 (J) |
| 3/17/2021  |          | 0.00208      | <0.0005     |              |
| 3/26/2021  | 0.00339  |              |             | 0.000995     |
| 10/5/2021  |          | 0.00187      |             | 0.00112      |
| 10/6/2021  | 0.00336  |              | 0.000802    |              |
| 3/16/2022  | 0.00289  | 0.00182      | 0.000967    | 0.00141      |
| 10/5/2022  | 0.00821  | 0.00121      |             |              |
| 10/6/2022  |          |              | 0.00143     | 0.00548      |
| 4/20/2023  | 0.0083   |              |             |              |
| 4/21/2023  |          | 0.00142      | 0.00275     | 0.00216      |
| Mean       | 0.005694 | 0.001212     | 0.0006759   | 0.001148     |
| Std. Dev.  | 0.001371 | 0.0003442    | 0.0005147   | 0.001023     |
| Upper Lim. | 0.006429 | 0.001371     | 0.000802    | 0.0011       |
| Lower Lim. | 0.004958 | 0.001023     | 0.0005      | 0.00071      |

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/7/2023 9:00 AM View: Appendix IV

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-3       | BAW-4       | BAW-5      | BAW-7       |
|------------|-------------|-------------|------------|-------------|
| 3/23/2016  | <5          | <5          | 0.549      | <5          |
| 5/17/2016  |             | <5          | 0.551      | <5          |
| 5/18/2016  | <5          |             |            |             |
| 7/12/2016  |             |             |            | 0.165 (U)   |
| 7/13/2016  | 0.27 (U)    | 0.0365 (U)  | 0.859      |             |
| 9/13/2016  |             |             | 0.367 (U)  | 0.341 (U)   |
| 9/14/2016  | -0.0909 (U) | 0.3 (U)     |            |             |
| 11/19/2016 | 0.416       | <5 (U)      | <5 (U)     | <5 (U)      |
| 1/17/2017  | 0.412 (U)   |             |            | 0.124 (U)   |
| 1/18/2017  |             | 0.235 (U)   | 0.289 (U)  |             |
| 3/22/2017  |             |             |            | 0.0719 (U)  |
| 3/23/2017  | 0.0761 (U)  | 0.168 (U)   | 0.554      |             |
| 5/24/2017  | 0.0415 (U)  | -0.0607 (U) | 0.831      | 0.441       |
| 3/28/2018  | 0.398       | 0.42        | 0.458      |             |
| 3/29/2018  |             |             |            | 0.731       |
| 6/2/2018   | -0.253 (U)  | 0.0844 (U)  | 0.226 (U)  | 0.303 (U)   |
| 11/8/2018  | 0.343 (U)   | 0.367 (U)   |            |             |
| 11/9/2018  |             |             | 0.298 (U)  | 0.00226 (U) |
| 2/11/2019  |             | 0.0402 (U)  | 0.15 (U)   |             |
| 2/12/2019  | 0.581       |             |            | 0.094 (U)   |
| 4/17/2019  | 0.646       | 0.493       | 0.326 (U)  |             |
| 4/18/2019  |             |             |            | 0.48        |
| 9/27/2019  |             |             |            | 0.497       |
| 9/30/2019  | 1           | 0.404       |            |             |
| 2/21/2020  | 0.126 (U)   |             |            | 0.375       |
| 2/22/2020  |             | 0.53        | 0.47       |             |
| 4/14/2020  | 0.338       | 0.0408 (U)  | 0.376 (U)  | 0.329 (U)   |
| 10/30/2020 | 0.485       | 0.344       | 0.528      |             |
| 11/2/2020  |             |             |            | 0.535       |
| 3/17/2021  |             | 0.312 (U)   | 0.0889 (U) |             |
| 3/26/2021  | 0.78        |             |            | 0.813       |
| 10/5/2021  |             | 1.06        |            | 0.814       |
| 10/6/2021  | 0.503       |             | 0.931      |             |
| 3/16/2022  | 0.286 (U)   | 0.314 (U)   | 1.39       | 1.39        |
| 10/21/2022 | 1.29        | 0.562 (U)   | 1.36       | 2.03        |
| 4/20/2023  | 0.884       |             |            |             |
| 4/21/2023  |             | 0.158 (U)   | 1.73       | 0.802       |
| Mean       | 0.6151      | 0.6049      | 0.7063     | 0.8108      |
| Std. Dev.  | 0.7057      | 0.8067      | 0.5959     | 0.8255      |
| Upper Lim. | 0.78        | 0.7281      | 0.915      | 1.056       |
| Lower Lim. | 0.27        | 0.1135      | 0.366      | 0.307       |

# Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 6/7/2023 9:00 AM View: Appendix IV

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-3      | BAW-4      | BAW-5      | BAW-7      |
|------------|------------|------------|------------|------------|
| 3/23/2016  | <0.1       | 0.04 (J)   | 0.06 (J)   | <0.1       |
| 5/17/2016  |            | 0.04 (J)   | 0.07 (J)   | <0.1       |
| 5/18/2016  | <0.1       |            |            |            |
| 7/12/2016  |            |            |            | <0.1       |
| 7/13/2016  | <0.1       | 0.05 (J)   | 0.08 (J)   |            |
| 9/13/2016  |            |            | 0.06 (J)   | <0.1       |
| 9/14/2016  | <0.1       | 0.04 (J)   |            |            |
| 11/19/2016 | <0.1       | 0.04 (J)   | 0.06 (J)   | <0.1       |
| 1/17/2017  | <0.1       |            |            | <0.1       |
| 1/18/2017  |            | <0.1       | 0.05 (J)   |            |
| 3/22/2017  |            |            |            | <0.1       |
| 3/23/2017  | <0.1       | <0.1       | 0.05 (J)   |            |
| 5/24/2017  | <0.1       | 0.04 (J)   | 0.06 (J)   | <0.1 (D)   |
| 10/16/2017 | <0.1       | <0.1       | 0.06 (J)   | <0.1       |
| 3/28/2018  | <0.1       | 0.04 (J)   | 0.06 (J)   |            |
| 3/29/2018  |            |            |            | <0.1       |
| 6/2/2018   | <0.1       | 0.05 (J)   | 0.06 (J)   | <0.1       |
| 11/8/2018  | <0.1       | 0.05 (J)   |            |            |
| 11/9/2018  |            |            | 0.06 (J)   | <0.1       |
| 2/11/2019  |            | <0.1       | 0.0368 (J) |            |
| 2/12/2019  | <0.1       |            |            | <0.1       |
| 4/17/2019  | <0.1       | 0.033 (J)  | 0.0421 (J) |            |
| 4/18/2019  |            |            |            | <0.1       |
| 9/27/2019  |            |            |            | <0.1       |
| 9/30/2019  | <0.1       | <0.1       | 0.045 (J)  |            |
| 2/21/2020  | <0.1       |            |            | <0.1       |
| 2/22/2020  |            | 0.0317 (J) | 0.0434 (J) |            |
| 4/14/2020  | 0.034 (J)  | 0.0508 (J) | 0.059 (J)  | 0.0415 (J) |
| 10/30/2020 | <0.1       | <0.1       | <0.1       |            |
| 11/2/2020  |            |            |            | <0.1       |
| 3/17/2021  |            | 0.0544 (J) | 0.0575 (J) |            |
| 3/26/2021  | <0.1       |            |            | <0.1       |
| 10/5/2021  |            | 0.0505 (J) |            | <0.1       |
| 10/6/2021  | <0.1       |            | 0.0725 (J) |            |
| 3/16/2022  | 0.0307 (J) | 0.0462 (J) | 0.176      | 0.0266 (J) |
| 10/5/2022  | <0.1       | 0.0322 (J) |            |            |
| 10/6/2022  |            |            | 0.0972 (J) | <0.1       |
| 4/20/2023  | <0.1       |            |            |            |
| 4/21/2023  |            | 0.0441 (J) | 0.0665 (J) | <0.1       |
| Mean       | 0.09412    | 0.05795    | 0.06417    | 0.09427    |
| Std. Dev.  | 0.0195     | 0.02625    | 0.02764    | 0.01913    |
| Upper Lim. | 0.1        | 0.0544     | 0.0665     | 0.1        |
| Lower Lim. | 0.034      | 0.04       | 0.05       | 0.0415     |

# Confidence Interval

Constituent: Lead (mg/L) Analysis Run 6/7/2023 9:00 AM View: Appendix IV

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-3        | BAW-4        | BAW-5        | BAW-7        |
|------------|--------------|--------------|--------------|--------------|
| 3/23/2016  | <0.001       | 0.00039 (J)  | <0.001       | <0.001       |
| 5/17/2016  |              | <0.001       | <0.001       | <0.001       |
| 5/18/2016  | <0.001       |              |              |              |
| 7/12/2016  |              |              |              | <0.001       |
| 7/13/2016  | <0.001       | <0.001       | <0.001       |              |
| 9/13/2016  |              |              | <0.001       | <0.001       |
| 9/14/2016  | 0.00056 (J)  | <0.001       |              |              |
| 11/19/2016 | <0.001       | 0.00042 (J)  | <0.001       | <0.001       |
| 1/17/2017  | <0.001       |              |              | <0.001       |
| 1/18/2017  |              | <0.001       | <0.001       |              |
| 3/22/2017  |              |              |              | <0.001       |
| 3/23/2017  | 0.00038 (J)  | <0.001       | <0.001       |              |
| 5/24/2017  | 0.00036 (J)  | <0.001       | <0.001       | <0.001       |
| 3/28/2018  | <0.001       | <0.001       | <0.001       |              |
| 3/29/2018  |              |              |              | <0.001       |
| 11/8/2018  | <0.001       | <0.001       |              |              |
| 11/9/2018  |              |              | <0.001       | <0.001       |
| 2/11/2019  |              | <0.001       | <0.001       |              |
| 2/12/2019  | 0.000139 (J) |              |              | <0.001       |
| 4/17/2019  | <0.001       | <0.001       | <0.001       |              |
| 4/18/2019  |              |              |              | <0.001       |
| 9/27/2019  |              |              |              | 0.000129 (J) |
| 9/30/2019  | 0.000322 (J) | 0.000191 (J) | 0.000152 (J) |              |
| 2/21/2020  | 0.00015 (J)  |              |              | <0.001       |
| 2/22/2020  |              | <0.001       | <0.001       |              |
| 4/14/2020  | 0.000236 (J) | <0.001       | <0.001       | <0.001       |
| 10/30/2020 | 0.000136 (J) | <0.001       | <0.001       |              |
| 11/2/2020  |              |              |              | <0.001       |
| 3/17/2021  |              | 0.000153 (J) | <0.001       |              |
| 3/26/2021  | 0.000145 (J) |              |              | <0.001       |
| 10/5/2021  |              | <0.001       |              | <0.001       |
| 10/6/2021  | <0.001       |              | <0.001       |              |
| 3/16/2022  | <0.001       | <0.001       | <0.001       | <0.001       |
| 10/5/2022  | <0.001       | <0.001       |              |              |
| 10/6/2022  |              |              | <0.001       | <0.001       |
| 4/20/2023  | <0.001       |              |              |              |
| 4/21/2023  |              | <0.001       | <0.001       | <0.001       |
| Mean       | 0.000687     | 0.0008645    | 0.0009596    | 0.0009585    |
| Std. Dev.  | 0.0003818    | 0.0002911    | 0.000185     | 0.0001901    |
| Upper Lim. | 0.001        | 0.001        | 0.001        | 0.001        |
| Lower Lim. | 0.000236     | 0.00042      | 0.000152     | 0.000129     |

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 6/7/2023 9:00 AM View: Appendix IV

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-3       | BAW-4    | BAW-5   | BAW-7       |
|------------|-------------|----------|---------|-------------|
| 3/23/2016  | <0.005      | 0.044    | 0.17    | <0.005      |
| 5/17/2016  |             | 0.028    | 0.2     | <0.005      |
| 5/18/2016  | <0.005      |          |         |             |
| 7/12/2016  |             |          |         | <0.005      |
| 7/13/2016  | <0.005      | 0.026    | 0.17    |             |
| 9/13/2016  |             |          | 0.17    | <0.005      |
| 9/14/2016  | <0.005      | 0.026    |         |             |
| 11/19/2016 | <0.005      | 0.026    | 0.18    | 0.0035 (J)  |
| 1/17/2017  | <0.005      |          |         | <0.005      |
| 1/18/2017  |             | 0.027    | 0.2     |             |
| 3/22/2017  |             |          |         | <0.005      |
| 3/23/2017  | <0.005      | 0.024    | 0.19    |             |
| 5/24/2017  | <0.005      | 0.027    | 0.21    | <0.005      |
| 3/28/2018  | 0.0023 (J)  | 0.021    | 0.23    |             |
| 3/29/2018  |             |          |         | 0.0026 (J)  |
| 6/2/2018   | 0.002 (J)   | 0.022    | 0.19    | 0.0029 (J)  |
| 11/8/2018  | 0.0024 (J)  | 0.025    |         |             |
| 11/9/2018  |             |          | 0.18    | 0.0027 (J)  |
| 2/11/2019  |             | 0.0229   | 0.161   |             |
| 2/12/2019  | <0.005      |          |         | <0.005      |
| 4/17/2019  | 0.00197 (J) | 0.0236   | 0.174   |             |
| 4/18/2019  |             |          |         | 0.00238 (J) |
| 9/27/2019  |             |          |         | 0.00375 (J) |
| 9/30/2019  | 0.00687     | 0.0249   | 0.166   |             |
| 2/21/2020  | <0.005      |          |         | <0.005      |
| 2/22/2020  |             | 0.0211   | 0.169   |             |
| 4/14/2020  | <0.005      | 0.0224   | 0.192   | <0.005      |
| 10/30/2020 | <0.005      | 0.0267   | 0.194   |             |
| 11/2/2020  |             |          |         | <0.005      |
| 3/17/2021  |             | 0.0174   | 0.12    |             |
| 3/26/2021  | <0.005      |          |         | <0.005      |
| 10/5/2021  |             | 0.0127   |         | 0.0045 (J)  |
| 10/6/2021  | <0.005      |          | 0.0994  |             |
| 3/16/2022  | 0.0038 (J)  | 0.0112   | 0.0629  | 0.00437 (J) |
| 10/5/2022  | 0.00322 (J) | 0.00676  |         |             |
| 10/6/2022  |             |          | 0.0534  | 0.0123      |
| 4/20/2023  | 0.00309 (J) |          |         |             |
| 4/21/2023  |             | 0.0091   | 0.0564  | 0.0107      |
| Mean       | 0.004348    | 0.02249  | 0.1608  | 0.004986    |
| Std. Dev.  | 0.001284    | 0.007821 | 0.05013 | 0.002315    |
| Upper Lim. | 0.005       | 0.02669  | 0.1885  | 0.005       |
| Lower Lim. | 0.00322     | 0.01829  | 0.1449  | 0.00375     |

# Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 6/7/2023 9:00 AM View: Appendix IV

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-3        | BAW-4        | BAW-5        | BAW-7        |
|------------|--------------|--------------|--------------|--------------|
| 3/23/2016  | 8.4E-05 (JB) | 7.3E-05 (JB) | 7.4E-05 (JB) | 7.1E-05 (JB) |
| 5/17/2016  |              | <0.0002      | <0.0002      | <0.0002      |
| 5/18/2016  | <0.0002      |              |              |              |
| 7/12/2016  |              |              |              | <0.0002      |
| 7/13/2016  | <0.0002      | <0.0002      | <0.0002      |              |
| 9/13/2016  |              |              | <0.0002      | <0.0002      |
| 9/14/2016  | <0.0002      | <0.0002      |              |              |
| 11/19/2016 | <0.0002      | <0.0002      | <0.0002      | <0.0002      |
| 1/17/2017  | <0.0002      |              |              | <0.0002      |
| 1/18/2017  |              | <0.0002      | <0.0002      |              |
| 3/22/2017  |              |              |              | <0.0002      |
| 3/23/2017  | 0.00013 (J)  | 0.00013 (J)  | <0.0002      |              |
| 5/24/2017  | <0.0002      | <0.0002      | <0.0002      | <0.0002      |
| 3/28/2018  | <0.0002      | <0.0002      | <0.0002      |              |
| 3/29/2018  |              |              |              | <0.0002      |
| 2/11/2019  |              | <0.0002      | <0.0002      |              |
| 2/12/2019  | <0.0002      |              |              | <0.0002      |
| 4/17/2019  | <0.0002      | <0.0002      | <0.0002      |              |
| 4/18/2019  |              |              |              | <0.0002      |
| 2/21/2020  | <0.0002      |              |              | <0.0002      |
| 2/22/2020  |              | <0.0002      | <0.0002      |              |
| 10/30/2020 | 0.000497     | <0.0002      | <0.0002      |              |
| 11/2/2020  |              |              |              | <0.0002      |
| 3/17/2021  |              | <0.0002      | <0.0002      |              |
| 3/26/2021  | <0.0002      |              |              | 0.000235     |
| 10/5/2021  |              | <0.0002      |              | 0.000151 (J) |
| 10/6/2021  | <0.0002      |              | <0.0002      |              |
| 3/16/2022  | <0.0002      | <0.0002      | <0.0002      | 0.0012       |
| 10/5/2022  | <0.0002      | <0.0002      |              |              |
| 10/6/2022  |              |              | <0.0002      | <0.0002      |
| 4/20/2023  | <0.0002      |              |              |              |
| 4/21/2023  |              | <0.0002      | <0.0002      | <0.0002      |
| Mean       | 0.0002062    | 0.0001891    | 0.000193     | 0.0002476    |
| Std. Dev.  | 7.892E-05    | 3.332E-05    | 2.97E-05     | 0.00024      |
| Upper Lim. | 0.000497     | 0.0002       | 0.0002       | 0.000235     |
| Lower Lim. | 0.00013      | 0.00013      | 7.4E-05      | 0.000151     |

# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 6/7/2023 9:00 AM View: Appendix IV

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-4        | BAW-5        | BAW-7      |
|------------|--------------|--------------|------------|
| 3/23/2016  | <0.015       | 0.0026 (J)   | <0.005     |
| 5/17/2016  | <0.015       | 0.0011 (J)   | <0.005     |
| 7/12/2016  |              |              | <0.005     |
| 7/13/2016  | <0.015       | 0.0079 (J)   |            |
| 9/13/2016  |              | 0.0038 (J)   | <0.005     |
| 9/14/2016  | <0.015       |              |            |
| 11/19/2016 | <0.015       | 0.0014 (J)   | <0.005     |
| 1/17/2017  |              |              | <0.005     |
| 1/18/2017  | <0.015       | 0.001 (J)    |            |
| 3/22/2017  |              |              | 0.0038 (J) |
| 3/23/2017  | <0.015       | <0.015       |            |
| 5/24/2017  | <0.015       | 0.0014 (J)   | <0.005     |
| 3/28/2018  | <0.015       | <0.015       |            |
| 3/29/2018  |              |              | <0.005     |
| 11/8/2018  | <0.015       |              |            |
| 11/9/2018  |              | <0.015       | <0.005     |
| 2/11/2019  | <0.015       | <0.015       |            |
| 2/12/2019  |              |              | <0.005     |
| 4/17/2019  | <0.015       | <0.015       |            |
| 4/18/2019  |              |              | <0.005     |
| 2/21/2020  |              |              | <0.005     |
| 2/22/2020  | 0.000616 (J) | 0.000627 (J) |            |
| 4/14/2020  | <0.015       | 0.000747 (J) | <0.005     |
| 10/30/2020 | <0.015       | <0.015       |            |
| 11/2/2020  |              |              | <0.005     |
| 3/17/2021  | 0.0032 (J)   | 0.00328 (J)  |            |
| 3/26/2021  |              |              | <0.005     |
| 10/5/2021  | 0.00109 (J)  |              | <0.005     |
| 10/6/2021  |              | 0.00364 (J)  |            |
| 3/16/2022  | 0.000916 (J) | 0.00533      | <0.005     |
| 10/5/2022  | 0.000939 (J) |              |            |
| 10/6/2022  |              | 0.00424 (J)  | <0.005     |
| 4/21/2023  | 0.00109 (J)  | 0.00651      | <0.005     |
| Mean       | 0.01089      | 0.006679     | 0.00494    |
| Std. Dev.  | 0.006455     | 0.0059       | 0.0002683  |
| Upper Lim. | 0.015        | 0.003781     | 0.005      |
| Lower Lim. | 0.00109      | 0.0015       | 0.0038     |

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 6/7/2023 9:00 AM View: Appendix IV

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-3       | BAW-5       | BAW-7       |
|------------|-------------|-------------|-------------|
| 3/23/2016  | 0.00033 (J) | <0.005      | <0.005      |
| 5/17/2016  |             | <0.005      | 0.00026 (J) |
| 5/18/2016  | <0.005      |             |             |
| 7/12/2016  |             |             | <0.005      |
| 7/13/2016  | 0.00041 (J) | <0.005      |             |
| 9/13/2016  |             | <0.005      | 0.00031 (J) |
| 9/14/2016  | 0.00079 (J) |             |             |
| 11/19/2016 | <0.005      | <0.005      | <0.005      |
| 1/17/2017  | <0.005      |             | <0.005      |
| 1/18/2017  |             | <0.005      |             |
| 3/22/2017  |             |             | 0.0021      |
| 3/23/2017  | <0.005      | <0.005      |             |
| 5/24/2017  | 0.00028 (J) | 0.00033 (J) | 0.00026 (J) |
| 3/28/2018  | 0.00038 (J) | <0.005      |             |
| 3/29/2018  |             |             | 0.00036 (J) |
| 6/2/2018   | 0.00031 (J) | <0.005      | <0.005      |
| 11/8/2018  | 0.00088 (J) |             |             |
| 11/9/2018  |             | <0.005      | <0.005      |
| 2/11/2019  |             | <0.005      |             |
| 2/12/2019  | <0.005      |             | <0.005      |
| 4/17/2019  | <0.005      | <0.005      |             |
| 4/18/2019  |             |             | <0.005      |
| 2/21/2020  | <0.005      |             | <0.005      |
| 2/22/2020  |             | <0.005      |             |
| 10/30/2020 | <0.005      | <0.005      |             |
| 11/2/2020  |             |             | <0.005      |
| 3/17/2021  |             | <0.005      |             |
| 3/26/2021  | <0.005      |             | <0.005      |
| 10/5/2021  |             |             | <0.005      |
| 10/6/2021  | <0.005      | <0.005      |             |
| 3/16/2022  | <0.005      | <0.005      | <0.005      |
| 10/5/2022  | <0.005      |             |             |
| 10/6/2022  |             | <0.005      | <0.005      |
| 4/20/2023  | <0.005      |             |             |
| 4/21/2023  |             | <0.005      | <0.005      |
| Mean       | 0.003419    | 0.004766    | 0.003914    |
| Std. Dev.  | 0.002215    | 0.001044    | 0.001964    |
| Upper Lim. | 0.005       | 0.005       | 0.005       |
| Lower Lim. | 0.00041     | 0.00033     | 0.0021      |



# Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 6/7/2023 9:00 AM View: Appendix IV  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

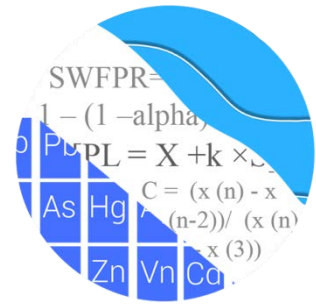
|            | BAW-3        | BAW-7        |
|------------|--------------|--------------|
| 3/23/2016  | <0.001       | <0.001       |
| 5/17/2016  |              | <0.001       |
| 5/18/2016  | <0.001       |              |
| 7/12/2016  |              | <0.001       |
| 7/13/2016  | <0.001       |              |
| 9/13/2016  |              | <0.001       |
| 9/14/2016  | 9.5E-05 (J)  |              |
| 11/19/2016 | <0.001       | <0.001       |
| 1/17/2017  | <0.001       | <0.001       |
| 3/22/2017  |              | <0.001       |
| 3/23/2017  | <0.001       |              |
| 5/24/2017  | <0.001       | <0.001       |
| 3/28/2018  | <0.001       |              |
| 3/29/2018  |              | <0.001       |
| 11/8/2018  | 8.5E-05 (J)  |              |
| 11/9/2018  |              | <0.001       |
| 2/12/2019  | <0.001       | <0.001       |
| 4/17/2019  | <0.001       |              |
| 4/18/2019  |              | <0.001       |
| 2/21/2020  | 0.000276 (J) | <0.001       |
| 4/14/2020  | 0.000158 (J) | <0.001       |
| 10/30/2020 | <0.001       |              |
| 11/2/2020  |              | <0.001       |
| 3/26/2021  | <0.001       | <0.001       |
| 10/5/2021  |              | 0.000153 (J) |
| 10/6/2021  | <0.001       |              |
| 3/16/2022  | <0.001       | <0.001       |
| 10/5/2022  | <0.001       |              |
| 10/6/2022  |              | <0.001       |
| 4/20/2023  | <0.001       |              |
| 4/21/2023  |              | <0.001       |
| Mean       | 0.0008307    | 0.0009577    |
| Std. Dev.  | 0.0003491    | 0.0001894    |
| Upper Lim. | 0.001        | 0.001        |
| Lower Lim. | 0.000276     | 0.000153     |

**2nd**  
**Semi-Annual**  
**Monitoring Event**

# GROUNDWATER STATS CONSULTING

January 31, 2024

Southern Company Services  
Attn: Mr. Trey Singleton  
3535 Colonnade Parkway  
Birmingham, AL 35243



Re: Plant Daniel Bottom Ash Pond  
2023 Annual Statistical Analysis – October 2023 Sample Event

Dear Mr. Singleton,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of groundwater data for the October 2023 Groundwater Detection and Assessment Monitoring report for Mississippi Power Company's Plant Daniel Bottom 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 Daniel Bottom Ash Pond for the CCR program in 2016. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** BAW-1 and BAW-2A
- **Downgradient wells:** BAW-3, BAW-4, BAW-5, and BAW-7

Upgradient well BAW-2 was last sampled in October 2017 and has since been abandoned; however, data for this well are included to represent groundwater quality upgradient of the ash pond. Replacement upgradient well BAW-2A was first sampled in March 2018 and has since been sampled to supplement existing upgradient data for BAW-2.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Founder and Senior Statistician of Groundwater Stats Consulting.

The CCR program monitors the constituents listed below. The terms “parameters” and “constituents” are used interchangeably.

- **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 list of Appendix IV downgradient well/constituent pairs containing 100% non-detects follow 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 are provided for all wells and are used to evaluate concentrations over time (Figure A). Additionally, box plots are included for all constituents at upgradient and downgradient wells (Figure B). Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graph. A summary of these values follows this letter (Figure C). 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.

During the previous screening, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided with the screening to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance recommendations as discussed below.

### **Summary of Statistical Methods**

Based on the evaluation for federal regulatory requirements, the following methods were selected for Appendix III constituents:

- Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS

The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. Parametric prediction limits (or tolerance limits or confidence intervals as applicable) 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 false positive rate associated with the parametric prediction limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric prediction limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The following approaches are used for handling non-detects (USEPA, 2009):

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data for parametric limits. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data following each sampling event after careful screening for any new outliers. 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.

## **Summary of Background Screening Conducted in October 2017**

### Outlier Analysis

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not conservative from a regulatory perspective, in proposed background data. Suspected outliers at all wells for Appendix III and Appendix IV parameters were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits. No suspected outliers were observed in any of the proposed background data at upgradient wells. When any values are identified as outliers, they are plotted in a lighter font on the time series graph.

### Seasonality

No seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

### Trend Test Evaluation

While trends may be visual, a quantification of the trend and its significance is needed. 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 as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, earlier data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When the historical records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses showed a couple statistically significant decreasing and increasing trends. All trends noted were relatively low in magnitude when compared to average concentrations, therefore, no adjustments were made to any of the data sets.

## Appendix III – Determination of Spatial Variation

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 would not be conservative from a regulatory perspective; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

The ANOVA showed no variation for calcium, chloride, pH, sulfate, and TDS, making these parameters eligible for interwell methods. Boron and fluoride contained 100% non-detects and, therefore, could not be tested with the ANOVA. These parameters are also eligible for interwell methods since no variation is present. A summary table of the ANOVA results was included with the October 2017 screening.

### **Statistical Analysis of Appendix III Parameters – October 2023**

Prior to constructing interwell prediction limits, data through the October 2023 sample event at upgradient wells were re-evaluated for outliers using visual screening. No additional outliers were suspected or flagged during this analysis. Tukey's outlier test had previously identified an outlier for calcium at well BAW-2 during the November 2019 statistical analysis; therefore, this value remains flagged. A summary of flagged data follows this report (Figure C). Additionally, any flagged values 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.

### Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample strategy, were established for each of the Appendix III parameters using pooled historical upgradient well data through October 2023 (Figure D). The reported measurements at downgradient wells for the October 2023 sample event were compared to the interwell prediction limits 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 would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no further action is necessary. Complete graphical results of the prediction limits may be found following this letter. Exceedances were identified for the following well/constituent pairs:

- Boron: BAW-4 and BAW-5
- Calcium: BAW-4 and BAW-5
- pH: BAW-3 and BAW-5
- Sulfate: BAW-3, BAW-4, and BAW-5
- TDS: BAW-5

### Trend Test Evaluation

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test at the 99% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure E). 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. The existence of similar trends in both upgradient and downgradient wells is an indication of variability in groundwater that is assumed to be unrelated to practices at the site. Statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- Calcium: BAW-4
- Sulfate: BAW-2A (upgradient) and BAW-4

Decreasing:

- Calcium: BAW-2 (upgradient)
- pH: BAW-2 (upgradient), BAW-3, and BAW-5
- Sulfate: BAW-1 (upgradient)

### **Statistical Methods – Appendix IV Parameters**

Appendix IV parameters are evaluated by statistically comparing the mean or median of each downgradient well/constituent pair against corresponding Groundwater Protection Standards (GWPS). The GWPS may be either regulatory (MCL or CCR rule-specified limits)



or site-specific limits that are based on upgradient groundwater quality. Site-specific background limits are determined using upper tolerance limits, and the comparison of downgradient means or medians to GWPS is performed using confidence intervals. The methods are described below.

### **Evaluation of Appendix IV Parameters – October 2023**

For Appendix IV parameters, confidence intervals for each downgradient well/constituent pair were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Well/constituent pairs that have 100% non-detects do not require analysis.

Data from upgradient wells for Appendix IV parameters are reassessed for outliers during each analysis. No additional values were flagged during this analysis. Tukey's outlier test had previously identified an outlier for lithium at upgradient well BAW-1 during the November 2019 statistical analysis, and this value remains flagged. A summary of flagged outliers follows this report (Figure C).

#### Interwell Upper Tolerance Limits

Parametric upper tolerance limits were used to calculate background limits from pooled upgradient well data through October 2023 when data followed a normal distribution for Appendix IV parameters with a target of 95% confidence and 95% coverage to determine background limits (Figure F). When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were constructed. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples.

#### Groundwater Protection Standards

The interwell upper tolerance limits were compared to the Maximum Contaminant Levels (MCLs), CCR Rule-Specified levels, and background limits in the Groundwater Protection Standard (GWPS) table following this letter to determine the highest limit for use as the GWPS in the Confidence Interval comparisons (Figure G).

#### Confidence Intervals

Confidence intervals were then constructed on downgradient wells using all data through October 2023 for each of the Appendix IV parameters (Figure H). The Sanitas software was used to calculate the tolerance limits and the confidence intervals, either parametric

or nonparametric, as appropriate. 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. Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its respective standard. Complete graphical results of the confidence interval follow this letter. An exceedance was identified for the following well/constituent pair:

- Lithium:                   BAW-5

#### Trend Test Evaluation – Appendix IV

When confidence interval exceedances are identified in downgradient wells, data are further evaluated using the Sen’s Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable at the 95% confidence level (Figure I). Utilizing the 95% confidence level for trend tests readily identifies significant trends and is more sensitive than the 99% confidence level without drastically increasing the false negative rate. Upgradient wells are included in the trend analyses for all parameters found to exceed their confidence intervals in downgradient wells. When similar patterns exist upgradient of the site, it is an indication of variability in groundwater which may be unrelated to practices at the site. Statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- None

Decreasing:

- Lithium:                   BAW-5

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for the Daniel Bottom Ash Pond. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Andrew Collins  
Project Manager



Kristina Rayner  
Senior Statistician

# 100% Non-Detects: Appendix IV Downgradient

Analysis Run 11/9/2023 11:45 AM View: Appendix IV  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

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Antimony (mg/L)  
BAW-3, BAW-4, BAW-5, BAW-7

Arsenic (mg/L)  
BAW-3

Beryllium (mg/L)  
BAW-4, BAW-5

Cadmium (mg/L)  
BAW-4, BAW-7

Molybdenum (mg/L)  
BAW-3

Selenium (mg/L)  
BAW-4

Thallium (mg/L)  
BAW-4, BAW-5

# Appendix III Interwell Prediction Limits - Significant Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 11/9/2023, 11:37 AM

| Constituent                   | Well  | Upper Lim. | Lower Lim. | Date       | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs  | ND Adj. | Transform | Alpha     | Method                      |
|-------------------------------|-------|------------|------------|------------|---------|------|------|---------|-----------|-------|---------|-----------|-----------|-----------------------------|
| Boron (mg/L)                  | BAW-4 | 0.0928     | n/a        | 10/25/2023 | 0.122   | Yes  | 47   | n/a     | n/a       | 85.11 | n/a     | n/a       | 0.0008638 | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)                  | BAW-5 | 0.0928     | n/a        | 10/25/2023 | 0.877   | Yes  | 47   | n/a     | n/a       | 85.11 | n/a     | n/a       | 0.0008638 | NP Inter (NDs) 1 of 2       |
| Calcium (mg/L)                | BAW-4 | 1.653      | n/a        | 10/25/2023 | 5.35    | Yes  | 46   | 0.9519  | 0.1272    | 4.348 | None    | x^(1/3)   | 0.00188   | Param Inter 1 of 2          |
| Calcium (mg/L)                | BAW-5 | 1.653      | n/a        | 10/25/2023 | 25.9    | Yes  | 46   | 0.9519  | 0.1272    | 4.348 | None    | x^(1/3)   | 0.00188   | Param Inter 1 of 2          |
| pH (SU)                       | BAW-3 | 5.77       | 4.59       | 10/25/2023 | 4.43    | Yes  | 45   | n/a     | n/a       | 0     | n/a     | n/a       | 0.001886  | NP Inter (normality) 1 of 2 |
| pH (SU)                       | BAW-5 | 5.77       | 4.59       | 10/25/2023 | 6.11    | Yes  | 45   | n/a     | n/a       | 0     | n/a     | n/a       | 0.001886  | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L)                | BAW-3 | 7.68       | n/a        | 10/25/2023 | 8.72    | Yes  | 45   | n/a     | n/a       | 42.22 | n/a     | n/a       | 0.0009429 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L)                | BAW-4 | 7.68       | n/a        | 10/25/2023 | 12.5    | Yes  | 45   | n/a     | n/a       | 42.22 | n/a     | n/a       | 0.0009429 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L)                | BAW-5 | 7.68       | n/a        | 10/25/2023 | 37.5    | Yes  | 45   | n/a     | n/a       | 42.22 | n/a     | n/a       | 0.0009429 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | BAW-5 | 57.31      | n/a        | 10/25/2023 | 161     | Yes  | 45   | 4.976   | 1.429     | 4.444 | None    | sqrt(x)   | 0.00188   | Param Inter 1 of 2          |

# Appendix III Interwell Prediction Limits - All Results

Plant Daniel    Client: Southern Company    Data: Bottom Ash CCR    Printed 11/9/2023, 11:37 AM

| Constituent                          | Well         | Upper Lim.    | Lower Lim.  | Date              | Observ.      | Sig.       | Bg N      | Bg Mean       | Std. Dev.     | %NDs         | ND Adj.     | Transform      | Alpha            | Method                             |
|--------------------------------------|--------------|---------------|-------------|-------------------|--------------|------------|-----------|---------------|---------------|--------------|-------------|----------------|------------------|------------------------------------|
| Boron (mg/L)                         | BAW-3        | 0.0928        | n/a         | 10/25/2023        | 0.08ND       | No         | 47        | n/a           | n/a           | 85.11        | n/a         | n/a            | 0.0008638        | NP Inter (NDs) 1 of 2              |
| <b>Boron (mg/L)</b>                  | <b>BAW-4</b> | <b>0.0928</b> | <b>n/a</b>  | <b>10/25/2023</b> | <b>0.122</b> | <b>Yes</b> | <b>47</b> | <b>n/a</b>    | <b>n/a</b>    | <b>85.11</b> | <b>n/a</b>  | <b>n/a</b>     | <b>0.0008638</b> | <b>NP Inter (NDs) 1 of 2</b>       |
| <b>Boron (mg/L)</b>                  | <b>BAW-5</b> | <b>0.0928</b> | <b>n/a</b>  | <b>10/25/2023</b> | <b>0.877</b> | <b>Yes</b> | <b>47</b> | <b>n/a</b>    | <b>n/a</b>    | <b>85.11</b> | <b>n/a</b>  | <b>n/a</b>     | <b>0.0008638</b> | <b>NP Inter (NDs) 1 of 2</b>       |
| Boron (mg/L)                         | BAW-7        | 0.0928        | n/a         | 10/24/2023        | 0.0336J      | No         | 47        | n/a           | n/a           | 85.11        | n/a         | n/a            | 0.0008638        | NP Inter (NDs) 1 of 2              |
| Calcium (mg/L)                       | BAW-3        | 1.653         | n/a         | 10/25/2023        | 0.875        | No         | 46        | 0.9519        | 0.1272        | 4.348        | None        | x^(1/3)        | 0.00188          | Param Inter 1 of 2                 |
| <b>Calcium (mg/L)</b>                | <b>BAW-4</b> | <b>1.653</b>  | <b>n/a</b>  | <b>10/25/2023</b> | <b>5.35</b>  | <b>Yes</b> | <b>46</b> | <b>0.9519</b> | <b>0.1272</b> | <b>4.348</b> | <b>None</b> | <b>x^(1/3)</b> | <b>0.00188</b>   | <b>Param Inter 1 of 2</b>          |
| <b>Calcium (mg/L)</b>                | <b>BAW-5</b> | <b>1.653</b>  | <b>n/a</b>  | <b>10/25/2023</b> | <b>25.9</b>  | <b>Yes</b> | <b>46</b> | <b>0.9519</b> | <b>0.1272</b> | <b>4.348</b> | <b>None</b> | <b>x^(1/3)</b> | <b>0.00188</b>   | <b>Param Inter 1 of 2</b>          |
| Calcium (mg/L)                       | BAW-7        | 1.653         | n/a         | 10/24/2023        | 1.3          | No         | 46        | 0.9519        | 0.1272        | 4.348        | None        | x^(1/3)        | 0.00188          | Param Inter 1 of 2                 |
| Chloride (mg/L)                      | BAW-3        | 16.4          | n/a         | 10/25/2023        | 5.5          | No         | 45        | n/a           | n/a           | 0            | n/a         | n/a            | 0.0009429        | NP Inter (normality) 1 of 2        |
| Chloride (mg/L)                      | BAW-4        | 16.4          | n/a         | 10/25/2023        | 7.6          | No         | 45        | n/a           | n/a           | 0            | n/a         | n/a            | 0.0009429        | NP Inter (normality) 1 of 2        |
| Chloride (mg/L)                      | BAW-5        | 16.4          | n/a         | 10/25/2023        | 11.3         | No         | 45        | n/a           | n/a           | 0            | n/a         | n/a            | 0.0009429        | NP Inter (normality) 1 of 2        |
| Chloride (mg/L)                      | BAW-7        | 16.4          | n/a         | 10/24/2023        | 8.57         | No         | 45        | n/a           | n/a           | 0            | n/a         | n/a            | 0.0009429        | NP Inter (normality) 1 of 2        |
| Fluoride (mg/L)                      | BAW-3        | 0.1           | n/a         | 10/25/2023        | 0.1ND        | No         | 47        | n/a           | n/a           | 87.23        | n/a         | n/a            | 0.0008638        | NP Inter (NDs) 1 of 2              |
| Fluoride (mg/L)                      | BAW-4        | 0.1           | n/a         | 10/25/2023        | 0.0393J      | No         | 47        | n/a           | n/a           | 87.23        | n/a         | n/a            | 0.0008638        | NP Inter (NDs) 1 of 2              |
| Fluoride (mg/L)                      | BAW-5        | 0.1           | n/a         | 10/25/2023        | 0.0858J      | No         | 47        | n/a           | n/a           | 87.23        | n/a         | n/a            | 0.0008638        | NP Inter (NDs) 1 of 2              |
| Fluoride (mg/L)                      | BAW-7        | 0.1           | n/a         | 10/24/2023        | 0.1ND        | No         | 47        | n/a           | n/a           | 87.23        | n/a         | n/a            | 0.0008638        | NP Inter (NDs) 1 of 2              |
| <b>pH (SU)</b>                       | <b>BAW-3</b> | <b>5.77</b>   | <b>4.59</b> | <b>10/25/2023</b> | <b>4.43</b>  | <b>Yes</b> | <b>45</b> | <b>n/a</b>    | <b>n/a</b>    | <b>0</b>     | <b>n/a</b>  | <b>n/a</b>     | <b>0.001886</b>  | <b>NP Inter (normality) 1 of 2</b> |
| pH (SU)                              | BAW-4        | 5.77          | 4.59        | 10/25/2023        | 5.42         | No         | 45        | n/a           | n/a           | 0            | n/a         | n/a            | 0.001886         | NP Inter (normality) 1 of 2        |
| <b>pH (SU)</b>                       | <b>BAW-5</b> | <b>5.77</b>   | <b>4.59</b> | <b>10/25/2023</b> | <b>6.11</b>  | <b>Yes</b> | <b>45</b> | <b>n/a</b>    | <b>n/a</b>    | <b>0</b>     | <b>n/a</b>  | <b>n/a</b>     | <b>0.001886</b>  | <b>NP Inter (normality) 1 of 2</b> |
| pH (SU)                              | BAW-7        | 5.77          | 4.59        | 10/24/2023        | 4.91         | No         | 45        | n/a           | n/a           | 0            | n/a         | n/a            | 0.001886         | NP Inter (normality) 1 of 2        |
| <b>Sulfate (mg/L)</b>                | <b>BAW-3</b> | <b>7.68</b>   | <b>n/a</b>  | <b>10/25/2023</b> | <b>8.72</b>  | <b>Yes</b> | <b>45</b> | <b>n/a</b>    | <b>n/a</b>    | <b>42.22</b> | <b>n/a</b>  | <b>n/a</b>     | <b>0.0009429</b> | <b>NP Inter (normality) 1 of 2</b> |
| <b>Sulfate (mg/L)</b>                | <b>BAW-4</b> | <b>7.68</b>   | <b>n/a</b>  | <b>10/25/2023</b> | <b>12.5</b>  | <b>Yes</b> | <b>45</b> | <b>n/a</b>    | <b>n/a</b>    | <b>42.22</b> | <b>n/a</b>  | <b>n/a</b>     | <b>0.0009429</b> | <b>NP Inter (normality) 1 of 2</b> |
| <b>Sulfate (mg/L)</b>                | <b>BAW-5</b> | <b>7.68</b>   | <b>n/a</b>  | <b>10/25/2023</b> | <b>37.5</b>  | <b>Yes</b> | <b>45</b> | <b>n/a</b>    | <b>n/a</b>    | <b>42.22</b> | <b>n/a</b>  | <b>n/a</b>     | <b>0.0009429</b> | <b>NP Inter (normality) 1 of 2</b> |
| Sulfate (mg/L)                       | BAW-7        | 7.68          | n/a         | 10/24/2023        | 2.11         | No         | 45        | n/a           | n/a           | 42.22        | n/a         | n/a            | 0.0009429        | NP Inter (normality) 1 of 2        |
| Total Dissolved Solids (mg/L)        | BAW-3        | 57.31         | n/a         | 10/25/2023        | 19           | No         | 45        | 4.976         | 1.429         | 4.444        | None        | sqrt(x)        | 0.00188          | Param Inter 1 of 2                 |
| Total Dissolved Solids (mg/L)        | BAW-4        | 57.31         | n/a         | 10/25/2023        | 47           | No         | 45        | 4.976         | 1.429         | 4.444        | None        | sqrt(x)        | 0.00188          | Param Inter 1 of 2                 |
| <b>Total Dissolved Solids (mg/L)</b> | <b>BAW-5</b> | <b>57.31</b>  | <b>n/a</b>  | <b>10/25/2023</b> | <b>161</b>   | <b>Yes</b> | <b>45</b> | <b>4.976</b>  | <b>1.429</b>  | <b>4.444</b> | <b>None</b> | <b>sqrt(x)</b> | <b>0.00188</b>   | <b>Param Inter 1 of 2</b>          |
| Total Dissolved Solids (mg/L)        | BAW-7        | 57.31         | n/a         | 10/24/2023        | 42           | No         | 45        | 4.976         | 1.429         | 4.444        | None        | sqrt(x)        | 0.00188          | Param Inter 1 of 2                 |

# Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 11/9/2023, 11:40 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>Alpha</u> | <u>Method</u> |
|--------------------|-------------|--------------|--------------|-----------------|-------------|----------|-------------|------------------|--------------|---------------|
| Calcium (mg/L)     | BAW-2 (bg)  | -0.4143      | -23          | -21             | Yes         | 8        | 0           | n/a              | 0.01         | NP            |
| Calcium (mg/L)     | BAW-4       | 0.3108       | 119          | 105             | Yes         | 24       | 0           | n/a              | 0.01         | NP            |
| pH (SU)            | BAW-2 (bg)  | -0.5393      | -29          | -25             | Yes         | 9        | 0           | n/a              | 0.01         | NP            |
| pH (SU)            | BAW-3       | -0.06186     | -159         | -98             | Yes         | 23       | 0           | n/a              | 0.01         | NP            |
| pH (SU)            | BAW-5       | -0.05587     | -148         | -98             | Yes         | 23       | 0           | n/a              | 0.01         | NP            |
| Sulfate (mg/L)     | BAW-1 (bg)  | -0.3946      | -110         | -98             | Yes         | 23       | 47.83       | n/a              | 0.01         | NP            |
| Sulfate (mg/L)     | BAW-2A (bg) | 1.002        | 47           | 43              | Yes         | 13       | 7.692       | n/a              | 0.01         | NP            |
| Sulfate (mg/L)     | BAW-4       | 0.3632       | 144          | 98              | Yes         | 23       | 0           | n/a              | 0.01         | NP            |

# Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 11/9/2023, 11:40 AM

| Constituent                   | Well               | Slope           | Calc.       | Critical   | Sig.       | N         | %NDs         | Normality  | Alpha       | Method    |
|-------------------------------|--------------------|-----------------|-------------|------------|------------|-----------|--------------|------------|-------------|-----------|
| Boron (mg/L)                  | BAW-1 (bg)         | 0               | 7           | 105        | No         | 24        | 95.83        | n/a        | 0.01        | NP        |
| Boron (mg/L)                  | BAW-2 (bg)         | 0               | 0           | 25         | No         | 9         | 100          | n/a        | 0.01        | NP        |
| Boron (mg/L)                  | BAW-2A (bg)        | -0.001822       | -33         | -48        | No         | 14        | 57.14        | n/a        | 0.01        | NP        |
| Boron (mg/L)                  | BAW-4              | 0.00614         | 88          | 105        | No         | 24        | 37.5         | n/a        | 0.01        | NP        |
| Boron (mg/L)                  | BAW-5              | 0.00709         | 43          | 105        | No         | 24        | 0            | n/a        | 0.01        | NP        |
| Calcium (mg/L)                | BAW-1 (bg)         | 0.02253         | 59          | 105        | No         | 24        | 4.167        | n/a        | 0.01        | NP        |
| <b>Calcium (mg/L)</b>         | <b>BAW-2 (bg)</b>  | <b>-0.4143</b>  | <b>-23</b>  | <b>-21</b> | <b>Yes</b> | <b>8</b>  | <b>0</b>     | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| Calcium (mg/L)                | BAW-2A (bg)        | -0.04956        | -43         | -48        | No         | 14        | 7.143        | n/a        | 0.01        | NP        |
| <b>Calcium (mg/L)</b>         | <b>BAW-4</b>       | <b>0.3108</b>   | <b>119</b>  | <b>105</b> | <b>Yes</b> | <b>24</b> | <b>0</b>     | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| Calcium (mg/L)                | BAW-5              | 0.1457          | 14          | 105        | No         | 24        | 0            | n/a        | 0.01        | NP        |
| pH (SU)                       | BAW-1 (bg)         | -0.01363        | -41         | -98        | No         | 23        | 0            | n/a        | 0.01        | NP        |
| <b>pH (SU)</b>                | <b>BAW-2 (bg)</b>  | <b>-0.5393</b>  | <b>-29</b>  | <b>-25</b> | <b>Yes</b> | <b>9</b>  | <b>0</b>     | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| pH (SU)                       | BAW-2A (bg)        | -0.03071        | -19         | -43        | No         | 13        | 0            | n/a        | 0.01        | NP        |
| <b>pH (SU)</b>                | <b>BAW-3</b>       | <b>-0.06186</b> | <b>-159</b> | <b>-98</b> | <b>Yes</b> | <b>23</b> | <b>0</b>     | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| <b>pH (SU)</b>                | <b>BAW-5</b>       | <b>-0.05587</b> | <b>-148</b> | <b>-98</b> | <b>Yes</b> | <b>23</b> | <b>0</b>     | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| <b>Sulfate (mg/L)</b>         | <b>BAW-1 (bg)</b>  | <b>-0.3946</b>  | <b>-110</b> | <b>-98</b> | <b>Yes</b> | <b>23</b> | <b>47.83</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| Sulfate (mg/L)                | BAW-2 (bg)         | 0               | -11         | -25        | No         | 9         | 77.78        | n/a        | 0.01        | NP        |
| <b>Sulfate (mg/L)</b>         | <b>BAW-2A (bg)</b> | <b>1.002</b>    | <b>47</b>   | <b>43</b>  | <b>Yes</b> | <b>13</b> | <b>7.692</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| Sulfate (mg/L)                | BAW-3              | 0.3476          | 77          | 98         | No         | 23        | 17.39        | n/a        | 0.01        | NP        |
| <b>Sulfate (mg/L)</b>         | <b>BAW-4</b>       | <b>0.3632</b>   | <b>144</b>  | <b>98</b>  | <b>Yes</b> | <b>23</b> | <b>0</b>     | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| Sulfate (mg/L)                | BAW-5              | 0.5503          | 61          | 98         | No         | 23        | 0            | n/a        | 0.01        | NP        |
| Total Dissolved Solids (mg/L) | BAW-1 (bg)         | 1.323           | 77          | 98         | No         | 23        | 8.696        | n/a        | 0.01        | NP        |
| Total Dissolved Solids (mg/L) | BAW-2 (bg)         | -5.236          | -4          | -25        | No         | 9         | 0            | n/a        | 0.01        | NP        |
| Total Dissolved Solids (mg/L) | BAW-2A (bg)        | 0.987           | 11          | 43         | No         | 13        | 0            | n/a        | 0.01        | NP        |
| Total Dissolved Solids (mg/L) | BAW-5              | 4.691           | 37          | 98         | No         | 23        | 0            | n/a        | 0.01        | NP        |

# Upper Tolerance Limits Summary Table

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 12/8/2023, 8:52 AM

| <u>Constituent</u>                | <u>Upper Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bg N</u> | <u>Bg Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u>       |
|-----------------------------------|-------------------|-------------|----------------|-------------|-------------|----------------|------------------|-------------|----------------|------------------|--------------|---------------------|
| Antimony (mg/L)                   | 0.002             | n/a         | n/a            | n/a         | 39          | n/a            | n/a              | 97.44       | n/a            | n/a              | 0.1353       | NP Inter(NDs)       |
| Arsenic (mg/L)                    | 0.001             | n/a         | n/a            | n/a         | 45          | n/a            | n/a              | 100         | n/a            | n/a              | 0.09944      | NP Inter(NDs)       |
| Barium (mg/L)                     | 0.0512            | n/a         | n/a            | n/a         | 45          | n/a            | n/a              | 2.222       | n/a            | n/a              | 0.09944      | NP Inter(normality) |
| Beryllium (mg/L)                  | 0.001             | n/a         | n/a            | n/a         | 41          | n/a            | n/a              | 97.56       | n/a            | n/a              | 0.1221       | NP Inter(NDs)       |
| Cadmium (mg/L)                    | 0.001             | n/a         | n/a            | n/a         | 45          | n/a            | n/a              | 97.78       | n/a            | n/a              | 0.09944      | NP Inter(NDs)       |
| Chromium (mg/L)                   | 0.00286           | n/a         | n/a            | n/a         | 43          | n/a            | n/a              | 90.7        | n/a            | n/a              | 0.1102       | NP Inter(NDs)       |
| Cobalt (mg/L)                     | 0.00171           | n/a         | n/a            | n/a         | 45          | 0.02906        | 0.005878         | 6.667       | None           | sqrt(x)          | 0.05         | Inter               |
| Combined Radium 226 + 228 (pCi/L) | 2.5               | n/a         | n/a            | n/a         | 45          | n/a            | n/a              | 4.444       | n/a            | n/a              | 0.09944      | NP Inter(normality) |
| Fluoride (mg/L)                   | 0.1               | n/a         | n/a            | n/a         | 47          | n/a            | n/a              | 87.23       | n/a            | n/a              | 0.08974      | NP Inter(NDs)       |
| Lead (mg/L)                       | 0.001             | n/a         | n/a            | n/a         | 43          | n/a            | n/a              | 100         | n/a            | n/a              | 0.1102       | NP Inter(NDs)       |
| Lithium (mg/L)                    | 0.00505           | n/a         | n/a            | n/a         | 44          | n/a            | n/a              | 70.45       | n/a            | n/a              | 0.1047       | NP Inter(NDs)       |
| Mercury (mg/L)                    | 0.0002            | n/a         | n/a            | n/a         | 37          | n/a            | n/a              | 94.59       | n/a            | n/a              | 0.1499       | NP Inter(NDs)       |
| Molybdenum (mg/L)                 | 0.005             | n/a         | n/a            | n/a         | 41          | n/a            | n/a              | 90.24       | n/a            | n/a              | 0.1221       | NP Inter(NDs)       |
| Selenium (mg/L)                   | 0.005             | n/a         | n/a            | n/a         | 41          | n/a            | n/a              | 85.37       | n/a            | n/a              | 0.1221       | NP Inter(NDs)       |
| Thallium (mg/L)                   | 0.001             | n/a         | n/a            | n/a         | 41          | n/a            | n/a              | 97.56       | n/a            | n/a              | 0.1221       | NP Inter(NDs)       |



| <b>PLANT DANIEL BOTTOM ASH GWPS</b> |            |                           |                         |             |
|-------------------------------------|------------|---------------------------|-------------------------|-------------|
| <b>Constituent Name</b>             | <b>MCL</b> | <b>CCR-Rule Specified</b> | <b>Background Limit</b> | <b>GWPS</b> |
| Antimony, Total (mg/L)              | 0.006      |                           | 0.002                   | 0.006       |
| Arsenic, Total (mg/L)               | 0.01       |                           | 0.001                   | 0.01        |
| Barium, Total (mg/L)                | 2          |                           | 0.051                   | 2           |
| Beryllium, Total (mg/L)             | 0.004      |                           | 0.001                   | 0.004       |
| Cadmium, Total (mg/L)               | 0.005      |                           | 0.001                   | 0.005       |
| Chromium, Total (mg/L)              | 0.1        |                           | 0.0029                  | 0.1         |
| Cobalt, Total (mg/L)                | n/a        | 0.006                     | 0.0017                  | 0.006       |
| Combined Radium, Total (pCi/L)      | 5          |                           | 2.5                     | 5           |
| Fluoride, Total (mg/L)              | 4          |                           | 0.1                     | 4           |
| Lead, Total (mg/L)                  | 0.015      |                           | 0.001                   | 0.015       |
| Lithium, Total (mg/L)               | n/a        | 0.04                      | 0.0051                  | 0.04        |
| Mercury, Total (mg/L)               | 0.002      |                           | 0.0002                  | 0.002       |
| Molybdenum, Total (mg/L)            | n/a        | 0.1                       | 0.005                   | 0.1         |
| Selenium, Total (mg/L)              | 0.05       |                           | 0.005                   | 0.05        |
| Thallium, Total (mg/L)              | 0.002      |                           | 0.001                   | 0.002       |

\*MCL = Maximum Contaminant Level

\*CCR = Coal Combustion Residuals

\*GWPS = Groundwater Protection Standard

# Confidence Intervals - Significant Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 12/8/2023, 8:55 AM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Compliance</u> | <u>Sig. N</u> | <u>Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|--------------------|-------------|-------------------|-------------------|-------------------|---------------|-------------|------------------|-------------|----------------|------------------|--------------|---------------|
| Lithium (mg/L)     | BAW-5       | 0.1861            | 0.1409            | 0.04              | Yes 23        | 0.1568      | 0.05267          | 0           | None           | x^2              | 0.01         | Param.        |

# Confidence Intervals - All Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 12/8/2023, 8:55 AM

| Constituent                       | Well         | Upper Lim.    | Lower Lim.    | Compliance  | Sig. N        | Mean          | Std. Dev.       | %NDs     | ND Adj.      | Transform  | Alpha       | Method         |
|-----------------------------------|--------------|---------------|---------------|-------------|---------------|---------------|-----------------|----------|--------------|------------|-------------|----------------|
| Arsenic (mg/L)                    | BAW-4        | 0.00152       | 0.000741      | 0.01        | No 23         | 0.001513      | 0.001303        | 17.39    | Kaplan-Meier | ln(x)      | 0.01        | Param.         |
| Arsenic (mg/L)                    | BAW-5        | 0.004632      | 0.002047      | 0.01        | No 23         | 0.003821      | 0.003257        | 0        | None         | x^(1/3)    | 0.01        | Param.         |
| Arsenic (mg/L)                    | BAW-7        | 0.001         | 0.00052       | 0.01        | No 23         | 0.0009574     | 0.0001412       | 91.3     | None         | No         | 0.01        | NP (NDs)       |
| Barium (mg/L)                     | BAW-3        | 0.03211       | 0.02339       | 2           | No 23         | 0.02775       | 0.008331        | 0        | None         | No         | 0.01        | Param.         |
| Barium (mg/L)                     | BAW-4        | 0.0221        | 0.0091        | 2           | No 23         | 0.01374       | 0.007445        | 0        | None         | No         | 0.01        | NP (normality) |
| Barium (mg/L)                     | BAW-5        | 0.0493        | 0.041         | 2           | No 23         | 0.05037       | 0.01706         | 0        | None         | No         | 0.01        | NP (normality) |
| Barium (mg/L)                     | BAW-7        | 0.0184        | 0.011         | 2           | No 23         | 0.0182        | 0.01765         | 0        | None         | No         | 0.01        | NP (normality) |
| Beryllium (mg/L)                  | BAW-3        | 0.001         | 0.000225      | 0.004       | No 21         | 0.0009262     | 0.0002331       | 90.48    | None         | No         | 0.01        | NP (NDs)       |
| Beryllium (mg/L)                  | BAW-7        | 0.001         | 0.000185      | 0.004       | No 21         | 0.0009612     | 0.0001778       | 95.24    | None         | No         | 0.01        | NP (NDs)       |
| Cadmium (mg/L)                    | BAW-3        | 0.0008656     | 0.000569      | 0.005       | No 23         | 0.0007173     | 0.0002836       | 4.348    | None         | No         | 0.01        | Param.         |
| Cadmium (mg/L)                    | BAW-5        | 0.001         | 0.000155      | 0.005       | No 23         | 0.0009633     | 0.0001762       | 95.65    | None         | No         | 0.01        | NP (NDs)       |
| Chromium (mg/L)                   | BAW-3        | 0.003         | 0.00165       | 0.1         | No 22         | 0.002807      | 0.003646        | 86.36    | None         | No         | 0.01        | NP (NDs)       |
| Chromium (mg/L)                   | BAW-4        | 0.002         | 0.0015        | 0.1         | No 22         | 0.001914      | 0.0002336       | 86.36    | None         | No         | 0.01        | NP (NDs)       |
| Chromium (mg/L)                   | BAW-5        | 0.0024        | 0.0012        | 0.1         | No 22         | 0.002118      | 0.0006723       | 86.36    | None         | No         | 0.01        | NP (NDs)       |
| Chromium (mg/L)                   | BAW-7        | 0.00206       | 0.002         | 0.1         | No 22         | 0.002003      | 0.0000127995.45 | None     | None         | No         | 0.01        | NP (NDs)       |
| Cobalt (mg/L)                     | BAW-3        | 0.006644      | 0.005048      | 0.006       | No 23         | 0.005846      | 0.001526        | 0        | None         | No         | 0.01        | Param.         |
| Cobalt (mg/L)                     | BAW-4        | 0.001404      | 0.001044      | 0.006       | No 23         | 0.00124       | 0.0003633       | 0        | None         | sqrt(x)    | 0.01        | Param.         |
| Cobalt (mg/L)                     | BAW-5        | 0.000802      | 0.0005        | 0.006       | No 23         | 0.000685      | 0.0005047       | 73.91    | None         | No         | 0.01        | NP (NDs)       |
| Cobalt (mg/L)                     | BAW-7        | 0.0011        | 0.00071       | 0.006       | No 23         | 0.00116       | 0.001001        | 0        | None         | No         | 0.01        | NP (normality) |
| Combined Radium 226 + 228 (pCi/L) | BAW-3        | 0.857         | 0.27          | 5           | No 23         | 0.6256        | 0.6913          | 8.696    | None         | No         | 0.01        | NP (normality) |
| Combined Radium 226 + 228 (pCi/L) | BAW-4        | 0.7137        | 0.1233        | 5           | No 23         | 0.5991        | 0.7886          | 13.04    | None         | x^(1/3)    | 0.01        | Param.         |
| Combined Radium 226 + 228 (pCi/L) | BAW-5        | 0.9508        | 0.3924        | 5           | No 22         | 0.7419        | 0.6051          | 4.545    | None         | sqrt(x)    | 0.01        | Param.         |
| Combined Radium 226 + 228 (pCi/L) | BAW-7        | 1.037         | 0.3219        | 5           | No 23         | 0.806         | 0.8069          | 13.04    | None         | sqrt(x)    | 0.01        | Param.         |
| Fluoride (mg/L)                   | BAW-3        | 0.1           | 0.034         | 4           | No 24         | 0.09436       | 0.01911         | 91.67    | None         | No         | 0.01        | NP (NDs)       |
| Fluoride (mg/L)                   | BAW-4        | 0.0544        | 0.04          | 4           | No 24         | 0.05718       | 0.02595         | 25       | None         | No         | 0.01        | NP (normality) |
| Fluoride (mg/L)                   | BAW-5        | 0.07          | 0.05          | 4           | No 24         | 0.06508       | 0.02739         | 4.167    | None         | No         | 0.01        | NP (normality) |
| Fluoride (mg/L)                   | BAW-7        | 0.1           | 0.0415        | 4           | No 24         | 0.0945        | 0.01875         | 91.67    | None         | No         | 0.01        | NP (NDs)       |
| Lead (mg/L)                       | BAW-3        | 0.001         | 0.000322      | 0.015       | No 22         | 0.0007013     | 0.0003785       | 59.09    | None         | No         | 0.01        | NP (NDs)       |
| Lead (mg/L)                       | BAW-4        | 0.001         | 0.00042       | 0.015       | No 22         | 0.0008706     | 0.0002855       | 81.82    | None         | No         | 0.01        | NP (NDs)       |
| Lead (mg/L)                       | BAW-5        | 0.001         | 0.000152      | 0.015       | No 22         | 0.0009615     | 0.0001808       | 95.45    | None         | No         | 0.01        | NP (NDs)       |
| Lead (mg/L)                       | BAW-7        | 0.001         | 0.000129      | 0.015       | No 22         | 0.0009604     | 0.0001857       | 95.45    | None         | No         | 0.01        | NP (NDs)       |
| Lithium (mg/L)                    | BAW-3        | 0.005         | 0.00322       | 0.04        | No 23         | 0.004302      | 0.001273        | 60.87    | None         | No         | 0.01        | NP (NDs)       |
| Lithium (mg/L)                    | BAW-4        | 0.02619       | 0.0179        | 0.04        | No 23         | 0.02205       | 0.007931        | 0        | None         | No         | 0.01        | Param.         |
| <b>Lithium (mg/L)</b>             | <b>BAW-5</b> | <b>0.1861</b> | <b>0.1409</b> | <b>0.04</b> | <b>Yes 23</b> | <b>0.1568</b> | <b>0.05267</b>  | <b>0</b> | <b>None</b>  | <b>x^2</b> | <b>0.01</b> | <b>Param.</b>  |
| Lithium (mg/L)                    | BAW-7        | 0.00555       | 0.00375       | 0.04        | No 23         | 0.005011      | 0.002265        | 52.17    | None         | No         | 0.01        | NP (NDs)       |
| Mercury (mg/L)                    | BAW-3        | 0.000497      | 0.00013       | 0.002       | No 19         | 0.0002058     | 0.0000767184.21 | None     | None         | No         | 0.01        | NP (NDs)       |
| Mercury (mg/L)                    | BAW-4        | 0.0002        | 0.00013       | 0.002       | No 19         | 0.0001896     | 0.0000324889.47 | None     | None         | No         | 0.01        | NP (NDs)       |
| Mercury (mg/L)                    | BAW-5        | 0.0002        | 0.000074      | 0.002       | No 19         | 0.0001934     | 0.0000289194.74 | None     | None         | No         | 0.01        | NP (NDs)       |
| Mercury (mg/L)                    | BAW-7        | 0.000235      | 0.000151      | 0.002       | No 19         | 0.0002451     | 0.0002335       | 78.95    | None         | No         | 0.01        | NP (NDs)       |
| Molybdenum (mg/L)                 | BAW-4        | 0.005         | 0.00109       | 0.1         | No 21         | 0.003945      | 0.001773        | 71.43    | None         | No         | 0.01        | NP (NDs)       |
| Molybdenum (mg/L)                 | BAW-5        | 0.003795      | 0.001596      | 0.1         | No 21         | 0.006532      | 0.00579         | 28.57    | Kaplan-Meier | x^(1/3)    | 0.01        | Param.         |
| Molybdenum (mg/L)                 | BAW-7        | 0.005         | 0.0038        | 0.1         | No 21         | 0.004943      | 0.0002619       | 95.24    | Kaplan-Meier | No         | 0.01        | NP (NDs)       |
| Selenium (mg/L)                   | BAW-3        | 0.005         | 0.00041       | 0.05        | No 21         | 0.003494      | 0.002186        | 66.67    | None         | No         | 0.01        | NP (NDs)       |
| Selenium (mg/L)                   | BAW-5        | 0.005         | 0.00033       | 0.05        | No 21         | 0.004778      | 0.001019        | 95.24    | None         | No         | 0.01        | NP (NDs)       |
| Selenium (mg/L)                   | BAW-7        | 0.005         | 0.0021        | 0.05        | No 21         | 0.003966      | 0.001929        | 76.19    | None         | No         | 0.01        | NP (NDs)       |
| Thallium (mg/L)                   | BAW-3        | 0.001         | 0.000276      | 0.002       | No 21         | 0.0008388     | 0.0003423       | 80.95    | None         | No         | 0.01        | NP (NDs)       |
| Thallium (mg/L)                   | BAW-7        | 0.001         | 0.000153      | 0.002       | No 21         | 0.0009597     | 0.0001848       | 95.24    | None         | No         | 0.01        | NP (NDs)       |

# Appendix IV Trend Tests - Confidence Interval Exceedances - Significant Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 11/9/2023, 11:49 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>Alpha</u> | <u>Method</u> |
|--------------------|-------------|--------------|--------------|-----------------|-------------|----------|-------------|------------------|--------------|---------------|
| Lithium (mg/L)     | BAW-5       | -0.01534     | -111         | -76             | Yes         | 23       | 0           | n/a              | 0.05         | NP            |

# Appendix IV Trend Tests - Confidence Interval Exceedances - All Results

Plant Daniel    Client: Southern Company    Data: Bottom Ash CCR    Printed 11/9/2023, 11:49 AM

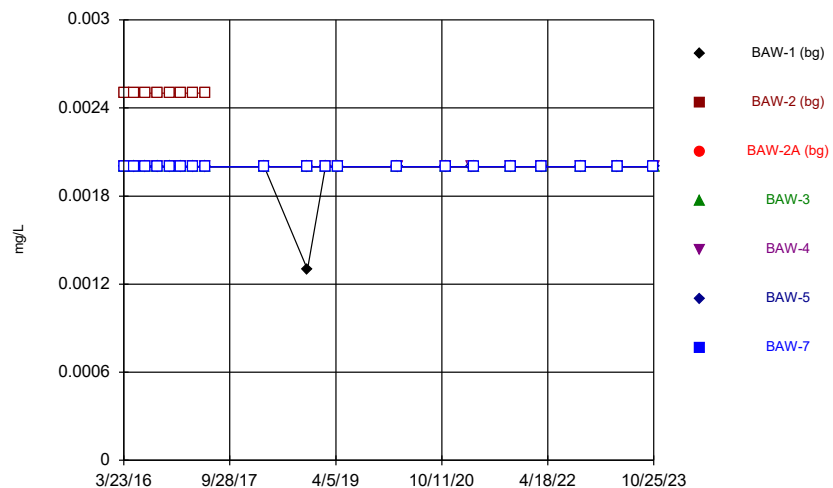
| <u>Constituent</u>    | <u>Well</u>  | <u>Slope</u>    | <u>Calc.</u> | <u>Critical</u> | <u>Sig.</u> | <u>N</u>  | <u>%NDs</u> | <u>Normality</u> | <u>Alpha</u> | <u>Method</u> |
|-----------------------|--------------|-----------------|--------------|-----------------|-------------|-----------|-------------|------------------|--------------|---------------|
| Lithium (mg/L)        | BAW-1 (bg)   | 0               | 8            | 71              | No          | 22        | 68.18       | n/a              | 0.05         | NP            |
| Lithium (mg/L)        | BAW-2 (bg)   | 0               | 0            | 17              | No          | 8         | 100         | n/a              | 0.05         | NP            |
| Lithium (mg/L)        | BAW-2A (bg)  | 0               | 11           | 37              | No          | 14        | 57.14       | n/a              | 0.05         | NP            |
| <b>Lithium (mg/L)</b> | <b>BAW-5</b> | <b>-0.01534</b> | <b>-111</b>  | <b>-76</b>      | <b>Yes</b>  | <b>23</b> | <b>0</b>    | <b>n/a</b>       | <b>0.05</b>  | <b>NP</b>     |

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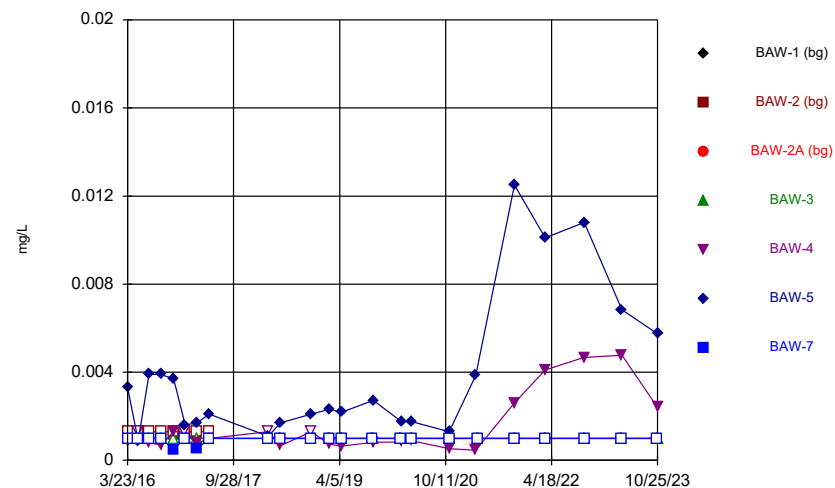
FIGURE A.

Time Series



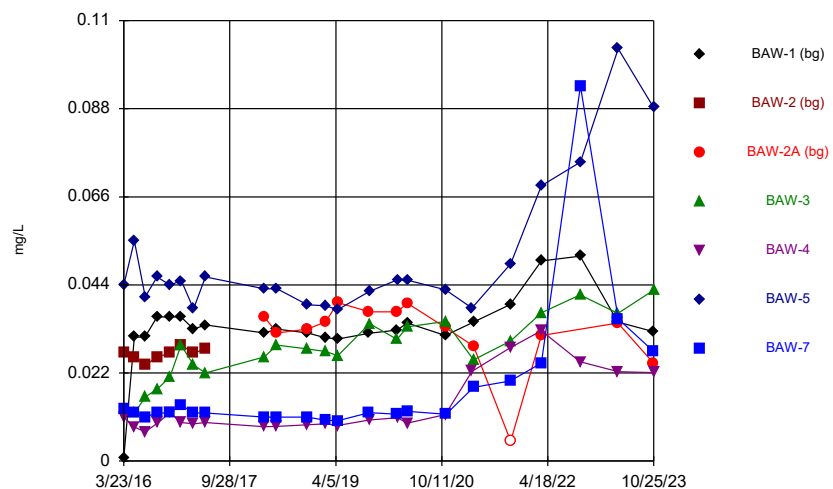
Constituent: Antimony Analysis Run 12/8/2023 8:45 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



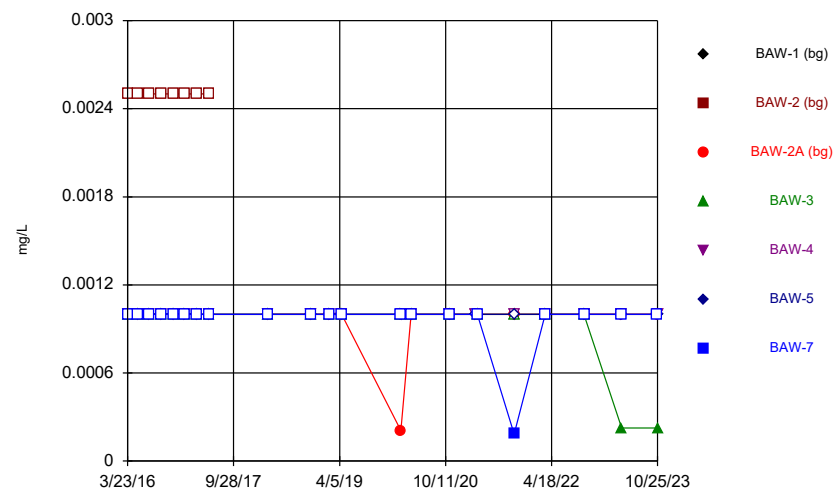
Constituent: Arsenic Analysis Run 12/8/2023 8:45 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



Constituent: Barium Analysis Run 12/8/2023 8:45 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

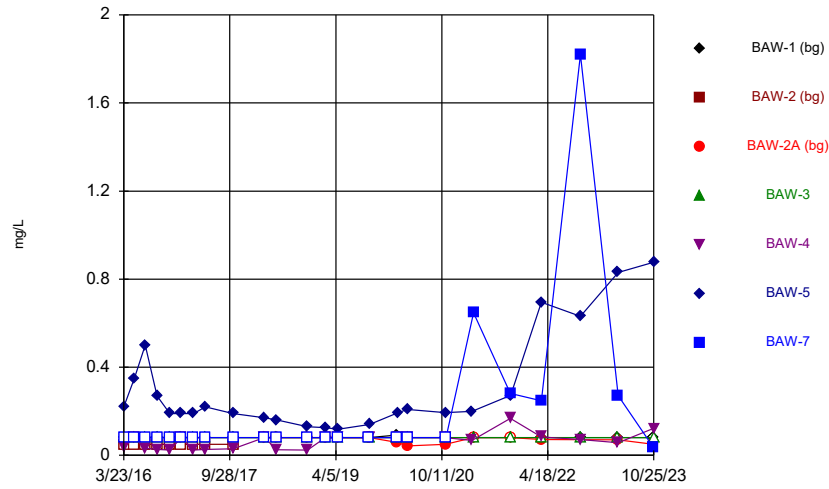
Time Series



Constituent: Beryllium Analysis Run 12/8/2023 8:45 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

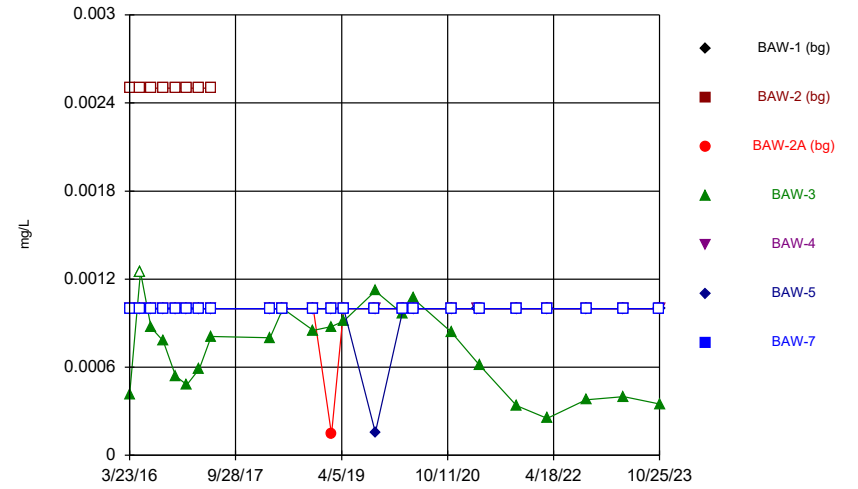


### Time Series



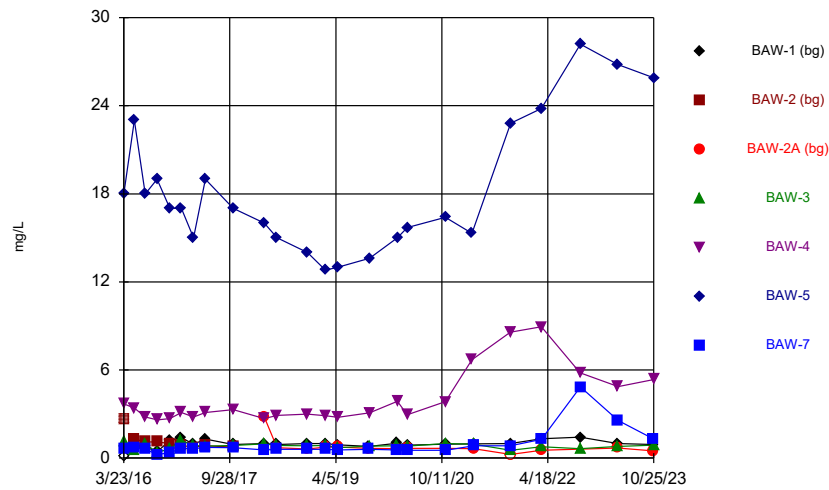
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Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Time Series



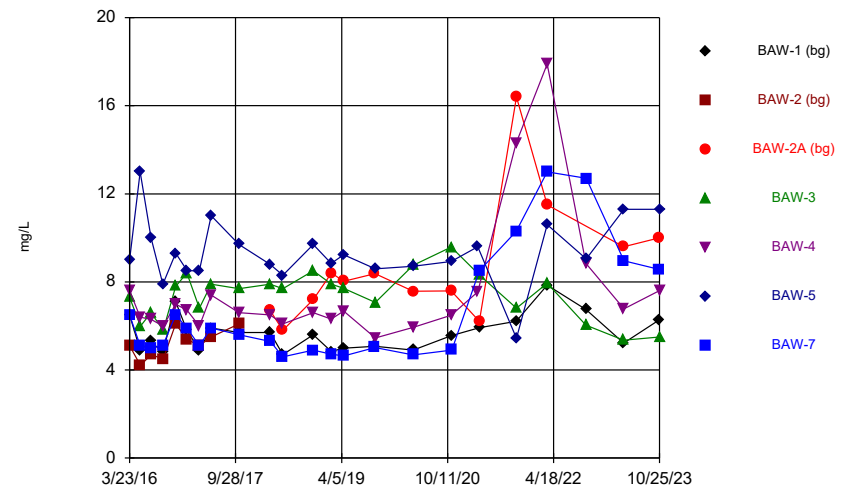
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Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Time Series



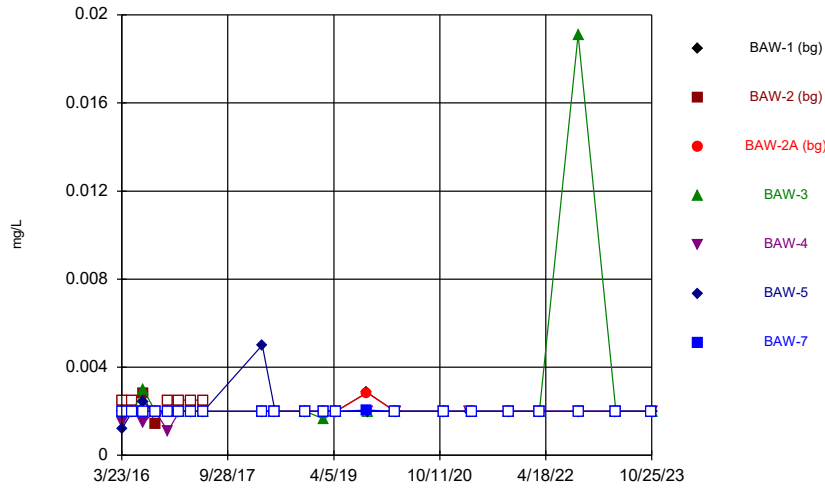
Constituent: Calcium Analysis Run 12/8/2023 8:45 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Time Series



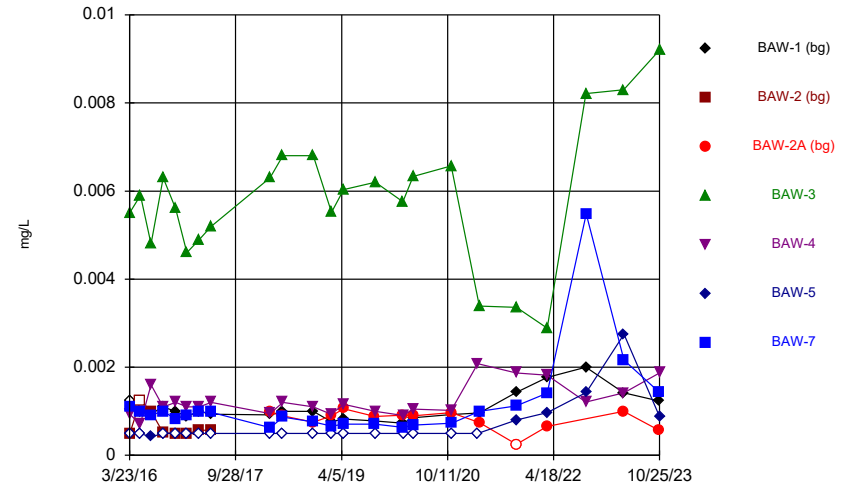
Constituent: Chloride Analysis Run 12/8/2023 8:45 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Time Series



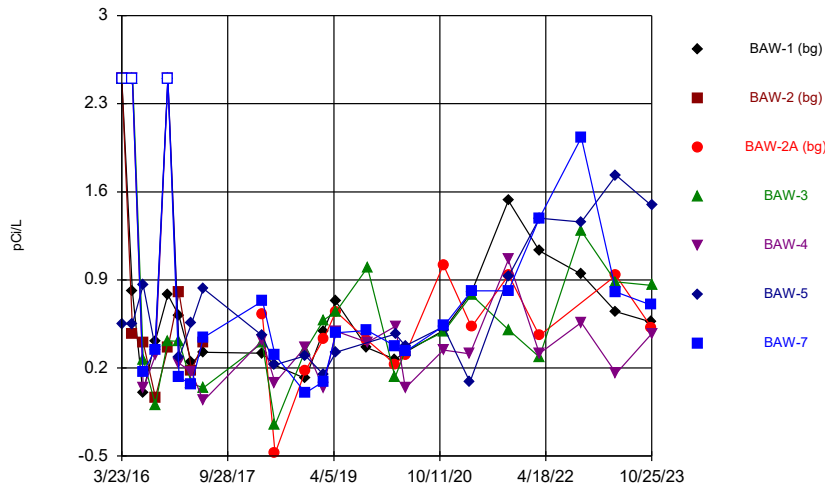
Constituent: Chromium Analysis Run 12/8/2023 8:45 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Time Series



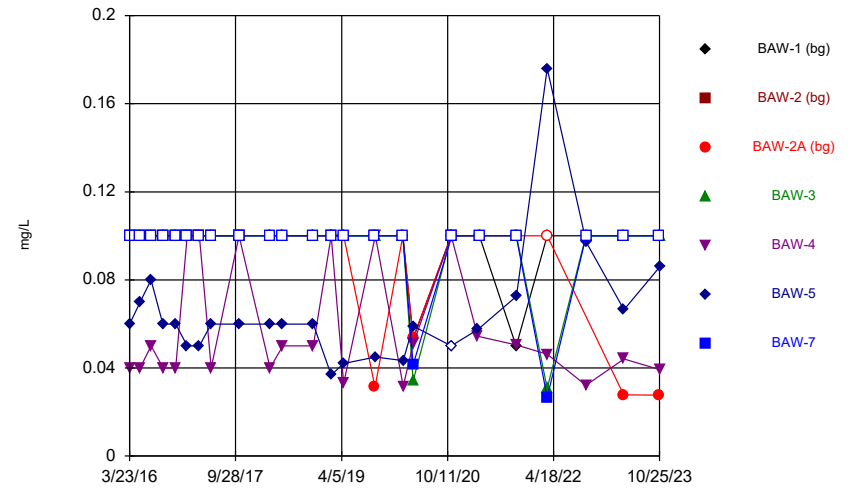
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Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Time Series



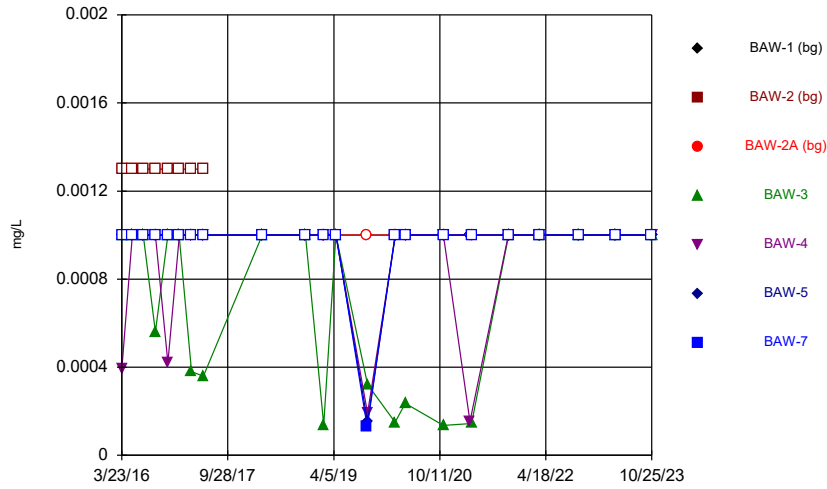
Constituent: Combined Radium 226 + 228 Analysis Run 12/8/2023 8:45 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Time Series



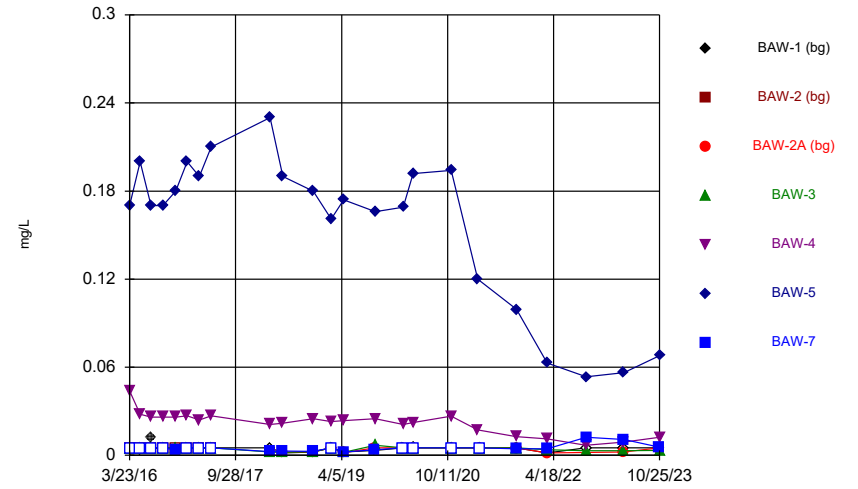
Constituent: Fluoride Analysis Run 12/8/2023 8:45 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



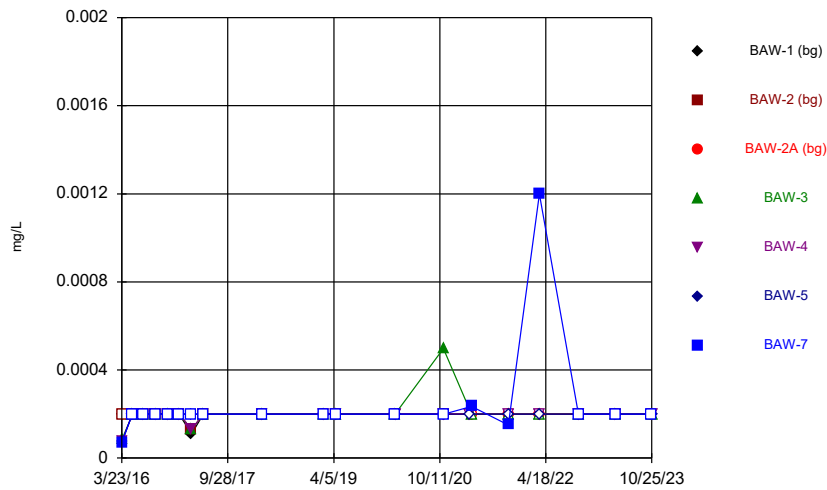
Constituent: Lead Analysis Run 12/8/2023 8:45 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



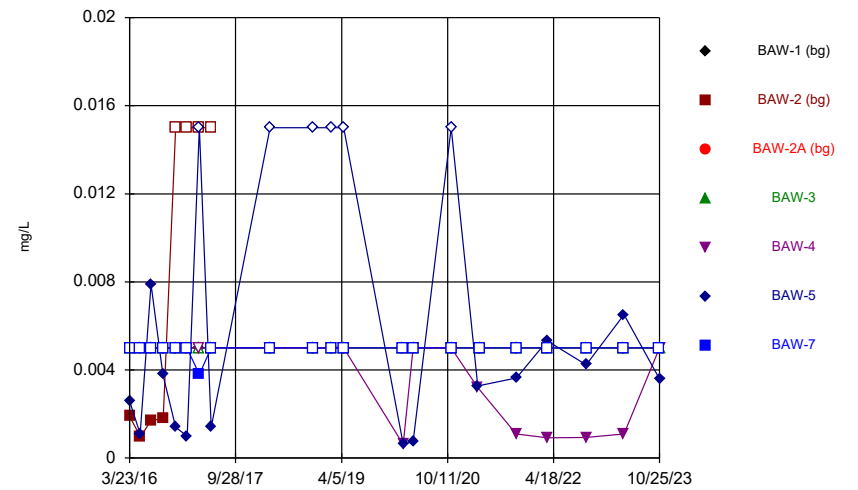
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Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



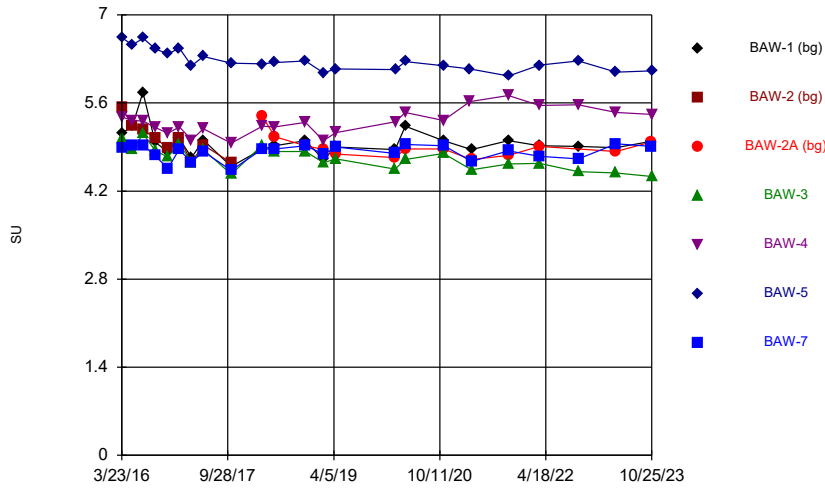
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Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



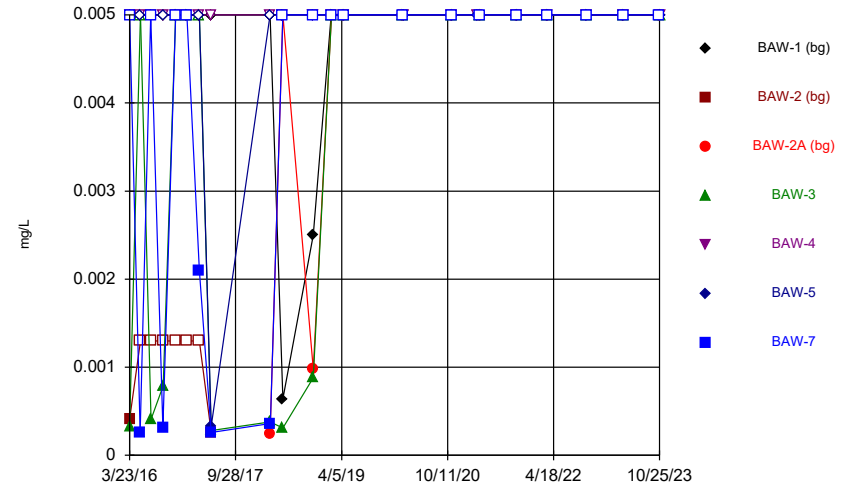
Constituent: Molybdenum Analysis Run 12/8/2023 8:45 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



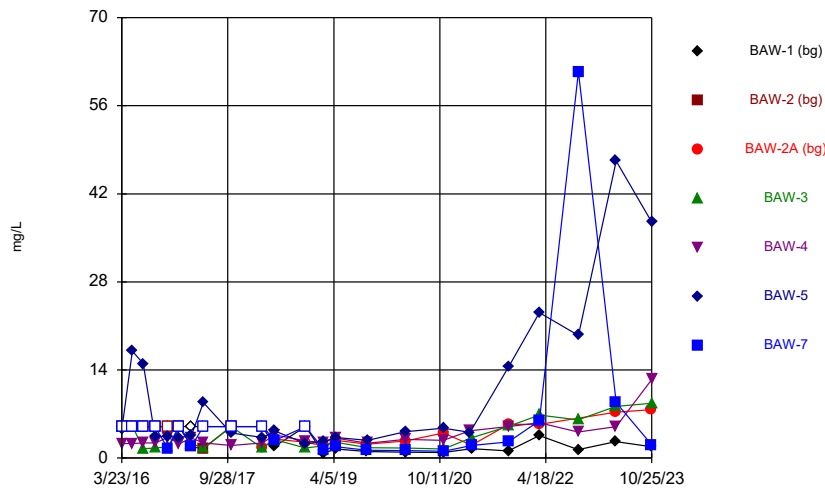
Constituent: pH Analysis Run 12/8/2023 8:45 AM  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



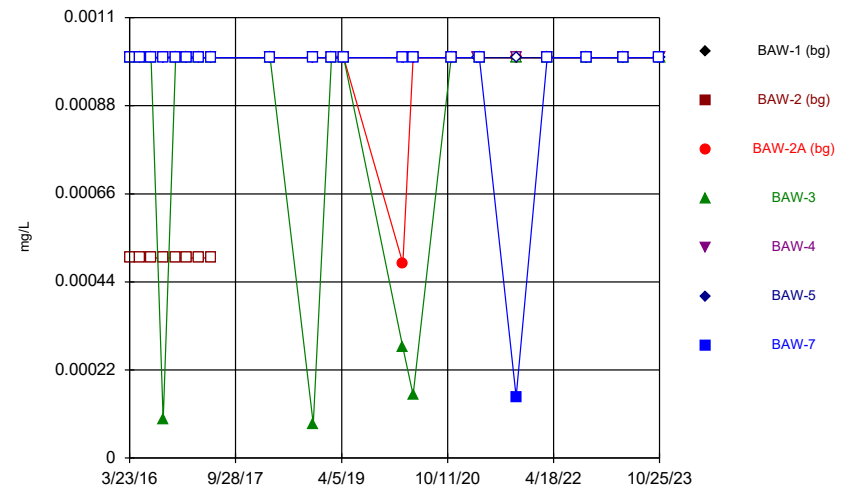
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 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



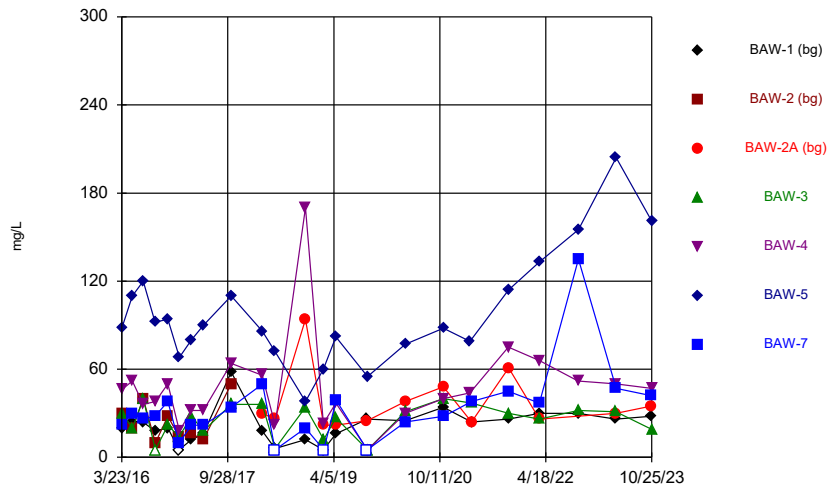
Constituent: Sulfate Analysis Run 12/8/2023 8:45 AM  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



Constituent: Thallium Analysis Run 12/8/2023 8:45 AM  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Time Series



Constituent: Total Dissolved Solids Analysis Run 12/8/2023 8:45 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

# Time Series

Constituent: Antimony (mg/L) Analysis Run 12/8/2023 8:47 AM

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3  | BAW-4  | BAW-5  | BAW-7  |
|------------|------------|------------|-------------|--------|--------|--------|--------|
| 3/23/2016  | <0.002     | <0.0025    |             | <0.002 | <0.002 | <0.002 | <0.002 |
| 5/17/2016  | <0.002     |            |             |        | <0.002 | <0.002 | <0.002 |
| 5/18/2016  |            | <0.0025    |             | <0.002 |        |        |        |
| 7/12/2016  | <0.002     |            |             |        |        |        | <0.002 |
| 7/13/2016  |            | <0.0025    |             | <0.002 | <0.002 | <0.002 |        |
| 9/13/2016  | <0.002     |            |             |        |        | <0.002 | <0.002 |
| 9/14/2016  |            | <0.0025    |             | <0.002 | <0.002 |        |        |
| 11/19/2016 | <0.002     | <0.0025    |             | <0.002 | <0.002 | <0.002 | <0.002 |
| 1/17/2017  | <0.002     | <0.0025    |             | <0.002 |        |        | <0.002 |
| 1/18/2017  |            |            |             |        | <0.002 | <0.002 |        |
| 3/22/2017  | <0.002     |            |             |        |        |        | <0.002 |
| 3/23/2017  |            | <0.0025    |             | <0.002 | <0.002 | <0.002 |        |
| 5/24/2017  | <0.002     | <0.0025    |             | <0.002 | <0.002 | <0.002 | <0.002 |
| 3/28/2018  | <0.002     |            | <0.002      | <0.002 | <0.002 | <0.002 |        |
| 3/29/2018  |            |            |             |        |        |        | <0.002 |
| 11/8/2018  | 0.0013 (J) |            |             | <0.002 | <0.002 |        |        |
| 11/9/2018  |            |            | <0.002      |        |        | <0.002 | <0.002 |
| 2/11/2019  | <0.002     |            |             |        | <0.002 | <0.002 |        |
| 2/12/2019  |            |            | <0.002      | <0.002 |        |        | <0.002 |
| 4/17/2019  | <0.002     |            | <0.002      | <0.002 | <0.002 | <0.002 |        |
| 4/18/2019  |            |            |             |        |        |        | <0.002 |
| 2/21/2020  | <0.002     |            | <0.002      | <0.002 |        |        | <0.002 |
| 2/22/2020  |            |            |             |        | <0.002 | <0.002 |        |
| 10/30/2020 | <0.002     |            | <0.002      | <0.002 | <0.002 | <0.002 |        |
| 11/2/2020  |            |            |             |        |        |        | <0.002 |
| 3/17/2021  |            |            |             |        | <0.002 | <0.002 |        |
| 3/26/2021  | <0.002     |            | <0.002      | <0.002 |        |        | <0.002 |
| 10/5/2021  | <0.002     |            |             |        | <0.002 |        | <0.002 |
| 10/6/2021  |            |            | <0.002      | <0.002 |        | <0.002 |        |
| 3/16/2022  | <0.002     |            | <0.002      | <0.002 | <0.002 | <0.002 | <0.002 |
| 10/5/2022  | <0.002     |            |             | <0.002 | <0.002 |        |        |
| 10/6/2022  |            |            |             |        |        | <0.002 | <0.002 |
| 4/20/2023  | <0.002     |            | <0.002      | <0.002 |        |        |        |
| 4/21/2023  |            |            |             |        | <0.002 | <0.002 | <0.002 |
| 10/24/2023 | <0.002     |            | <0.002      |        |        |        | <0.002 |
| 10/25/2023 |            |            |             | <0.002 | <0.002 | <0.002 |        |

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/8/2023 8:47 AM  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3  | BAW-4        | BAW-5       | BAW-7       |
|------------|------------|------------|-------------|--------|--------------|-------------|-------------|
| 3/23/2016  | <0.001     | <0.0013    |             | <0.001 | 0.00087 (J)  | 0.0033      | <0.001      |
| 5/17/2016  | <0.001     |            |             |        | <0.0013      | 0.00089 (J) | <0.001      |
| 5/18/2016  |            | <0.0013    |             | <0.001 |              |             |             |
| 7/12/2016  | <0.001     |            |             |        |              |             | <0.001      |
| 7/13/2016  |            | <0.0013    |             | <0.001 | 0.00081 (J)  | 0.0039      |             |
| 9/13/2016  | <0.001     |            |             |        |              | 0.0039      | <0.001      |
| 9/14/2016  |            | <0.0013    |             | <0.001 | 0.00069 (J)  |             |             |
| 11/19/2016 | <0.001     | <0.0013    |             | <0.001 | 0.0013       | 0.0037      | 0.0005 (J)  |
| 1/17/2017  | <0.001     | <0.0013    |             | <0.001 |              |             | <0.001      |
| 1/18/2017  |            |            |             |        | <0.0013      | 0.0016      |             |
| 3/22/2017  | <0.001     |            |             |        |              |             | 0.00052 (J) |
| 3/23/2017  |            | <0.0013    |             | <0.001 | 0.00078 (J)  | 0.0017      |             |
| 5/24/2017  | <0.001     | <0.0013    |             | <0.001 | 0.001 (J)    | 0.0021      | <0.001      |
| 3/28/2018  | <0.001     |            | <0.001      | <0.001 | <0.0013      | 0.0011 (J)  |             |
| 3/29/2018  |            |            |             |        |              |             | <0.001      |
| 6/2/2018   | <0.001     |            | <0.001      | <0.001 | 0.00068 (J)  | 0.0017      | <0.001      |
| 11/8/2018  | <0.001     |            |             | <0.001 | <0.0013      |             |             |
| 11/9/2018  |            |            | <0.001      |        |              | 0.0021      | <0.001      |
| 2/11/2019  | <0.001     |            |             |        | 0.000737 (J) | 0.00232     |             |
| 2/12/2019  |            |            | <0.001      | <0.001 |              |             | <0.001      |
| 4/17/2019  | <0.001     |            | <0.001      | <0.001 | 0.000645 (J) | 0.00218     |             |
| 4/18/2019  |            |            |             |        |              |             | <0.001      |
| 9/27/2019  | <0.001     |            | <0.001      |        |              |             | <0.001      |
| 9/30/2019  |            |            |             | <0.001 | 0.000821 (J) | 0.00272     |             |
| 2/21/2020  | <0.001     |            | <0.001      | <0.001 |              |             | <0.001      |
| 2/22/2020  |            |            |             |        | 0.000837 (J) | 0.00177     |             |
| 4/14/2020  | <0.001     |            | <0.001      | <0.001 | 0.000896 (J) | 0.00177     | <0.001      |
| 10/30/2020 | <0.001     |            | <0.001      | <0.001 | 0.000529 (J) | 0.0013      |             |
| 11/2/2020  |            |            |             |        |              |             | <0.001      |
| 3/17/2021  |            |            |             |        | 0.000454 (J) | 0.00385     |             |
| 3/26/2021  | <0.001     |            | <0.001      | <0.001 |              |             | <0.001      |
| 10/5/2021  | <0.001     |            |             |        | 0.00259      |             | <0.001      |
| 10/6/2021  |            |            | <0.001      | <0.001 |              | 0.0125      |             |
| 3/16/2022  | <0.001     |            | <0.001      | <0.001 | 0.00411      | 0.0101      | <0.001      |
| 10/5/2022  | <0.001     |            |             | <0.001 | 0.00467      |             |             |
| 10/6/2022  |            |            |             |        |              | 0.0108      | <0.001      |
| 4/20/2023  | <0.001     |            | <0.001      | <0.001 |              |             |             |
| 4/21/2023  |            |            |             |        | 0.00477      | 0.00683     | <0.001      |
| 10/24/2023 | <0.001     |            | <0.001      |        |              |             | <0.001      |
| 10/25/2023 |            |            |             | <0.001 | 0.00241      | 0.00575     |             |

# Time Series

Constituent: Barium (mg/L) Analysis Run 12/8/2023 8:47 AM  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg)  | BAW-2 (bg) | BAW-2A (bg) | BAW-3  | BAW-4       | BAW-5  | BAW-7  |
|------------|-------------|------------|-------------|--------|-------------|--------|--------|
| 3/23/2016  | 0.00084 (J) | 0.027      |             | 0.013  | 0.011       | 0.044  | 0.013  |
| 5/17/2016  | 0.031       |            |             |        | 0.0085      | 0.055  | 0.012  |
| 5/18/2016  |             | 0.026      |             | 0.012  |             |        |        |
| 7/12/2016  | 0.031       |            |             |        |             |        | 0.011  |
| 7/13/2016  |             | 0.024      |             | 0.016  | 0.0073      | 0.041  |        |
| 9/13/2016  | 0.036       |            |             |        |             | 0.046  | 0.012  |
| 9/14/2016  |             | 0.026      |             | 0.018  | 0.0095      |        |        |
| 11/19/2016 | 0.036       | 0.027      |             | 0.021  | 0.012       | 0.044  | 0.012  |
| 1/17/2017  | 0.036       | 0.029      |             | 0.029  |             |        | 0.014  |
| 1/18/2017  |             |            |             |        | 0.0096      | 0.045  |        |
| 3/22/2017  | 0.033       |            |             |        |             |        | 0.012  |
| 3/23/2017  |             | 0.027      |             | 0.024  | 0.0093      | 0.038  |        |
| 5/24/2017  | 0.034       | 0.028      |             | 0.022  | 0.0096      | 0.046  | 0.012  |
| 3/28/2018  | 0.032       |            | 0.036       | 0.026  | 0.0086      | 0.043  |        |
| 3/29/2018  |             |            |             |        |             |        | 0.011  |
| 6/2/2018   | 0.033       |            | 0.032       | 0.029  | 0.0087      | 0.043  | 0.011  |
| 11/8/2018  | 0.032       |            |             | 0.028  | 0.0091      |        |        |
| 11/9/2018  |             |            | 0.033       |        |             | 0.039  | 0.011  |
| 2/11/2019  | 0.0308      |            |             |        | 0.00931     | 0.0388 |        |
| 2/12/2019  |             |            | 0.0348      | 0.0274 |             |        | 0.0102 |
| 4/17/2019  | 0.0305      |            | 0.0396      | 0.0263 | 0.00888     | 0.0378 |        |
| 4/18/2019  |             |            |             |        |             |        | 0.0101 |
| 9/27/2019  | 0.0319      |            | 0.0373      |        |             |        | 0.0121 |
| 9/30/2019  |             |            |             | 0.0343 | 0.0103      | 0.0424 |        |
| 2/21/2020  | 0.0327      |            | 0.0373      | 0.0304 |             |        | 0.0117 |
| 2/22/2020  |             |            |             |        | 0.0108      | 0.0453 |        |
| 4/14/2020  | 0.0345      |            | 0.0394      | 0.0335 | 0.00949 (J) | 0.0452 | 0.0124 |
| 10/30/2020 | 0.0314      |            | 0.0334      | 0.0349 | 0.0116      | 0.0428 |        |
| 11/2/2020  |             |            |             |        |             |        | 0.0117 |
| 3/17/2021  |             |            |             |        | 0.0224      | 0.0382 |        |
| 3/26/2021  | 0.0347      |            | 0.0287      | 0.0253 |             |        | 0.0184 |
| 10/5/2021  | 0.0391      |            |             |        | 0.0283      |        | 0.02   |
| 10/6/2021  |             |            | <0.01       | 0.03   |             | 0.0493 |        |
| 3/16/2022  | 0.05        |            | 0.0314      | 0.037  | 0.0326      | 0.0688 | 0.0245 |
| 10/5/2022  | 0.0512      |            |             | 0.0415 | 0.0248      |        |        |
| 10/6/2022  |             |            |             |        |             | 0.0747 | 0.0937 |
| 4/20/2023  | 0.0347      |            | 0.0345      | 0.0369 |             |        |        |
| 4/21/2023  |             |            |             |        | 0.0223      | 0.103  | 0.0355 |
| 10/24/2023 | 0.0323      |            | 0.0244      |        |             |        | 0.0274 |
| 10/25/2023 |             |            |             | 0.0427 | 0.0221      | 0.0883 |        |



# Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/8/2023 8:47 AM

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg)  | BAW-3        | BAW-4  | BAW-5  | BAW-7        |
|------------|------------|------------|--------------|--------------|--------|--------|--------------|
| 3/23/2016  | <0.001     | <0.0025    |              | <0.001       | <0.001 | <0.001 | <0.001       |
| 5/17/2016  | <0.001     |            |              |              | <0.001 | <0.001 | <0.001       |
| 5/18/2016  |            | <0.0025    |              | <0.001       |        |        |              |
| 7/12/2016  | <0.001     |            |              |              |        |        | <0.001       |
| 7/13/2016  |            | <0.0025    |              | <0.001       | <0.001 | <0.001 |              |
| 9/13/2016  | <0.001     |            |              |              |        | <0.001 | <0.001       |
| 9/14/2016  |            | <0.0025    |              | <0.001       | <0.001 |        |              |
| 11/19/2016 | <0.001     | <0.0025    |              | <0.001       | <0.001 | <0.001 | <0.001       |
| 1/17/2017  | <0.001     | <0.0025    |              | <0.001       |        |        | <0.001       |
| 1/18/2017  |            |            |              |              | <0.001 | <0.001 |              |
| 3/22/2017  | <0.001     |            |              |              |        |        | <0.001       |
| 3/23/2017  |            | <0.0025    |              | <0.001       | <0.001 | <0.001 |              |
| 5/24/2017  | <0.001     | <0.0025    |              | <0.001       | <0.001 | <0.001 | <0.001       |
| 3/28/2018  | <0.001     |            | <0.001       | <0.001       | <0.001 | <0.001 |              |
| 3/29/2018  |            |            |              |              |        |        | <0.001       |
| 11/8/2018  | <0.001     |            |              | <0.001       | <0.001 |        |              |
| 11/9/2018  |            |            | <0.001       |              |        | <0.001 | <0.001       |
| 2/11/2019  | <0.001     |            |              |              | <0.001 | <0.001 |              |
| 2/12/2019  |            |            | <0.001       | <0.001       |        |        | <0.001       |
| 4/17/2019  | <0.001     |            | <0.001       | <0.001       | <0.001 | <0.001 |              |
| 4/18/2019  |            |            |              |              |        |        | <0.001       |
| 2/21/2020  | <0.001     |            | 0.000207 (J) | <0.001       |        |        | <0.001       |
| 2/22/2020  |            |            |              |              | <0.001 | <0.001 |              |
| 4/14/2020  | <0.001     |            | <0.001       | <0.001       | <0.001 | <0.001 | <0.001       |
| 10/30/2020 | <0.001     |            | <0.001       | <0.001       | <0.001 | <0.001 |              |
| 11/2/2020  |            |            |              |              |        |        | <0.001       |
| 3/17/2021  |            |            |              |              | <0.001 | <0.001 |              |
| 3/26/2021  | <0.001     |            | <0.001       | <0.001       |        |        | <0.001       |
| 10/5/2021  | <0.001     |            |              |              | <0.001 |        | 0.000185 (J) |
| 10/6/2021  |            |            | <0.001       | <0.001       |        | <0.001 |              |
| 3/16/2022  | <0.001     |            | <0.001       | <0.001       | <0.001 | <0.001 | <0.001       |
| 10/5/2022  | <0.001     |            |              | <0.001       | <0.001 |        |              |
| 10/6/2022  |            |            |              |              |        | <0.001 | <0.001       |
| 4/20/2023  | <0.001     |            | <0.001       | 0.000225 (J) |        |        |              |
| 4/21/2023  |            |            |              |              | <0.001 | <0.001 | <0.001       |
| 10/24/2023 | <0.001     |            | <0.001       |              |        |        | <0.001       |
| 10/25/2023 |            |            |              | 0.000225 (J) | <0.001 | <0.001 |              |

# Time Series

Constituent: Boron (mg/L) Analysis Run 12/8/2023 8:47 AM

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3 | BAW-4      | BAW-5 | BAW-7      |
|------------|------------|------------|-------------|-------|------------|-------|------------|
| 3/23/2016  | <0.08      | <0.05      |             | <0.08 | 0.037 (J)  | 0.22  | <0.08      |
| 5/17/2016  | <0.08      |            |             |       | <0.08      | 0.35  | <0.08      |
| 5/18/2016  |            | <0.05      |             | <0.08 |            |       |            |
| 7/12/2016  | <0.08      |            |             |       |            |       | <0.08      |
| 7/13/2016  |            | <0.05      |             | <0.08 | 0.032 (J)  | 0.5   |            |
| 9/13/2016  | <0.08      |            |             |       |            | 0.27  | <0.08      |
| 9/14/2016  |            | <0.05      |             | <0.08 | 0.027 (J)  |       |            |
| 11/19/2016 | <0.08      | <0.05      |             | <0.08 | 0.024 (J)  | 0.19  | <0.08      |
| 1/17/2017  | <0.08      | <0.05      |             | <0.08 |            |       | <0.08      |
| 1/18/2017  |            |            |             |       | <0.08      | 0.19  |            |
| 3/22/2017  | <0.08      |            |             |       |            |       | <0.08      |
| 3/23/2017  |            | <0.05      |             | <0.08 | 0.024 (J)  | 0.19  |            |
| 5/24/2017  | <0.08      | <0.05      |             | <0.08 | 0.027 (J)  | 0.22  | <0.08      |
| 10/16/2017 | <0.08      | <0.05      |             | <0.08 | 0.03 (J)   | 0.19  | <0.08      |
| 3/28/2018  | <0.08      |            | <0.08       | <0.08 | <0.08      | 0.17  |            |
| 3/29/2018  |            |            |             |       |            |       | <0.08      |
| 6/2/2018   | <0.08      |            | <0.08       | <0.08 | 0.025 (J)  | 0.16  | <0.08      |
| 11/8/2018  | <0.08      |            |             | <0.08 | 0.024 (J)  |       |            |
| 11/9/2018  |            |            | <0.08       |       |            | 0.13  | <0.08      |
| 2/11/2019  | <0.08      |            |             |       | <0.08      | 0.126 |            |
| 2/12/2019  |            |            | <0.08       | <0.08 |            |       | <0.08      |
| 4/17/2019  | <0.08      |            | <0.08       | <0.08 | <0.08      | 0.118 |            |
| 4/18/2019  |            |            |             |       |            |       | <0.08      |
| 9/27/2019  | <0.08      |            | <0.08       |       |            |       | <0.08      |
| 9/30/2019  |            |            |             | <0.08 | <0.08      | 0.14  |            |
| 2/21/2020  | 0.0928     |            | 0.0589 (J)  | <0.08 |            |       | <0.08      |
| 2/22/2020  |            |            |             |       | <0.08      | 0.193 |            |
| 4/14/2020  | <0.08      |            | 0.0424 (J)  | <0.08 | <0.08      | 0.209 | <0.08      |
| 10/30/2020 | <0.08      |            | 0.0495 (J)  | <0.08 | <0.08      | 0.194 |            |
| 11/2/2020  |            |            |             |       |            |       | <0.08      |
| 3/17/2021  |            |            |             |       | 0.0673 (J) | 0.2   |            |
| 3/26/2021  | <0.08      |            | <0.08       | <0.08 |            |       | 0.647      |
| 10/5/2021  | <0.08      |            |             |       | 0.168      |       | 0.281      |
| 10/6/2021  |            |            | <0.08       | <0.08 |            | 0.272 |            |
| 3/16/2022  | <0.08      |            | 0.0717 (J)  | <0.08 | 0.084      | 0.695 | 0.247      |
| 10/5/2022  | <0.08      |            |             | <0.08 | 0.0714 (J) |       |            |
| 10/6/2022  |            |            |             |       |            | 0.631 | 1.82       |
| 4/20/2023  | <0.08      |            | 0.0711 (J)  | <0.08 |            |       |            |
| 4/21/2023  |            |            |             |       | 0.058 (J)  | 0.831 | 0.271      |
| 10/24/2023 | <0.08      |            | 0.0502 (J)  |       |            |       | 0.0336 (J) |
| 10/25/2023 |            |            |             | <0.08 | 0.122      | 0.877 |            |

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/8/2023 8:47 AM  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg)  | BAW-3        | BAW-4  | BAW-5        | BAW-7  |
|------------|------------|------------|--------------|--------------|--------|--------------|--------|
| 3/23/2016  | <0.001     | <0.0025    |              | 0.00041 (J)  | <0.001 | <0.001       | <0.001 |
| 5/17/2016  | <0.001     |            |              |              | <0.001 | <0.001       | <0.001 |
| 5/18/2016  |            | <0.0025    |              | <0.0025      |        |              |        |
| 7/12/2016  | <0.001     |            |              |              |        |              | <0.001 |
| 7/13/2016  |            | <0.0025    |              | 0.00087 (J)  | <0.001 | <0.001       |        |
| 9/13/2016  | <0.001     |            |              |              |        | <0.001       | <0.001 |
| 9/14/2016  |            | <0.0025    |              | 0.00078 (J)  | <0.001 |              |        |
| 11/19/2016 | <0.001     | <0.0025    |              | 0.00054 (J)  | <0.001 | <0.001       | <0.001 |
| 1/17/2017  | <0.001     | <0.0025    |              | 0.00048 (J)  |        |              | <0.001 |
| 1/18/2017  |            |            |              |              | <0.001 | <0.001       |        |
| 3/22/2017  | <0.001     |            |              |              |        |              | <0.001 |
| 3/23/2017  |            | <0.0025    |              | 0.00059 (J)  | <0.001 | <0.001       |        |
| 5/24/2017  | <0.001     | <0.0025    |              | 0.00081 (J)  | <0.001 | <0.001       | <0.001 |
| 3/28/2018  | <0.001     |            | <0.001       | 0.0008 (J)   | <0.001 | <0.001       |        |
| 3/29/2018  |            |            |              |              |        |              | <0.001 |
| 6/2/2018   | <0.001     |            | <0.001       | 0.001 (J)    | <0.001 | <0.001       | <0.001 |
| 11/8/2018  | <0.001     |            |              | 0.00085 (J)  | <0.001 |              |        |
| 11/9/2018  |            |            | <0.001       |              |        | <0.001       | <0.001 |
| 2/11/2019  | <0.001     |            |              |              | <0.001 | <0.001       |        |
| 2/12/2019  |            |            | 0.000143 (J) | 0.000877 (J) |        |              | <0.001 |
| 4/17/2019  | <0.001     |            | <0.001       | 0.000915 (J) | <0.001 | <0.001       |        |
| 4/18/2019  |            |            |              |              |        |              | <0.001 |
| 9/27/2019  | <0.001     |            | <0.001       |              |        |              | <0.001 |
| 9/30/2019  |            |            |              | 0.00112 (J)  | <0.001 | 0.000155 (J) |        |
| 2/21/2020  | <0.001     |            | <0.001       | 0.000962 (J) |        |              | <0.001 |
| 2/22/2020  |            |            |              |              | <0.001 | <0.001       |        |
| 4/14/2020  | <0.001     |            | <0.001       | 0.00107 (J)  | <0.001 | <0.001       | <0.001 |
| 10/30/2020 | <0.001     |            | <0.001       | 0.00084 (J)  | <0.001 | <0.001       |        |
| 11/2/2020  |            |            |              |              |        |              | <0.001 |
| 3/17/2021  |            |            |              |              | <0.001 | <0.001       |        |
| 3/26/2021  | <0.001     |            | <0.001       | 0.000615 (J) |        |              | <0.001 |
| 10/5/2021  | <0.001     |            |              |              | <0.001 |              | <0.001 |
| 10/6/2021  |            |            | <0.001       | 0.000338 (J) |        | <0.001       |        |
| 3/16/2022  | <0.001     |            | <0.001       | 0.000252 (J) | <0.001 | <0.001       | <0.001 |
| 10/5/2022  | <0.001     |            |              | 0.000379 (J) | <0.001 |              |        |
| 10/6/2022  |            |            |              |              |        | <0.001       | <0.001 |
| 4/20/2023  | <0.001     |            | <0.001       | 0.0004 (J)   |        |              |        |
| 4/21/2023  |            |            |              |              | <0.001 | <0.001       | <0.001 |
| 10/24/2023 | <0.001     |            | <0.001       |              |        |              | <0.001 |
| 10/25/2023 |            |            |              | 0.00035 (J)  | <0.001 | <0.001       |        |

# Time Series

Constituent: Calcium (mg/L) Analysis Run 12/8/2023 8:47 AM

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|------------|------------|-------------|-------|-------|-------|-------|
| 3/23/2016  | <0.25      | 2.6 (o)    |             | 1.1   | 3.7   | 18    | 0.65  |
| 5/17/2016  | 0.84       |            |             |       | 3.4   | 23    | 0.68  |
| 5/18/2016  |            | 1.3        |             | 0.56  |       |       |       |
| 7/12/2016  | 0.79       |            |             |       |       |       | 0.62  |
| 7/13/2016  |            | 1.1        |             | 0.95  | 2.8   | 18    |       |
| 9/13/2016  | 0.42       |            |             |       |       | 19    | 0.25  |
| 9/14/2016  |            | 1.1        |             | 0.4   | 2.6   |       |       |
| 11/19/2016 | 1.2        | 1          |             | 0.62  | 2.7   | 17    | 0.36  |
| 1/17/2017  | 1.4        | 0.87       |             | 1.2   |       |       | 0.66  |
| 1/18/2017  |            |            |             |       | 3.1   | 17    |       |
| 3/22/2017  | 0.95       |            |             |       |       |       | 0.65  |
| 3/23/2017  |            | 0.74       |             | 0.87  | 2.8   | 15    |       |
| 5/24/2017  | 1.3        | 0.84       |             | 0.81  | 3.1   | 19    | 0.72  |
| 10/16/2017 | 0.93       | 0.76       |             | 0.86  | 3.3   | 17    | 0.7   |
| 3/28/2018  | 1          |            | 2.8         | 0.97  | 2.7   | 16    |       |
| 3/29/2018  |            |            |             |       |       |       | 0.55  |
| 6/2/2018   | 0.93       |            | 0.71        | 0.86  | 2.9   | 15    | 0.6   |
| 11/8/2018  | 1          |            |             | 0.84  | 3     |       |       |
| 11/9/2018  |            |            | 0.61        |       |       | 14    | 0.59  |
| 2/11/2019  | 1          |            |             |       | 2.88  | 12.8  |       |
| 2/12/2019  |            |            | 0.757       | 0.856 |       |       | 0.608 |
| 4/17/2019  | 0.893      |            | 0.755       | 0.711 | 2.77  | 13    |       |
| 4/18/2019  |            |            |             |       |       |       | 0.55  |
| 9/27/2019  | 0.8        |            | 0.663       |       |       |       | 0.598 |
| 9/30/2019  |            |            |             | 0.826 | 3.08  | 13.6  |       |
| 2/21/2020  | 1.02       |            | 0.648       | 0.841 |       |       | 0.552 |
| 2/22/2020  |            |            |             |       | 3.86  | 15    |       |
| 4/14/2020  | 0.887      |            | 0.67        | 0.811 | 2.95  | 15.7  | 0.532 |
| 10/30/2020 | 0.945      |            | 0.672       | 1     | 3.84  | 16.4  |       |
| 11/2/2020  |            |            |             |       |       |       | 0.535 |
| 3/17/2021  |            |            |             |       | 6.69  | 15.3  |       |
| 3/26/2021  | 0.965      |            | 0.644       | 0.937 |       |       | 0.848 |
| 10/5/2021  | 0.996      |            |             |       | 8.57  |       | 0.829 |
| 10/6/2021  |            |            | <0.5        | 0.532 |       | 22.8  |       |
| 3/16/2022  | 1.32       |            | 0.539       | 0.78  | 8.94  | 23.8  | 1.28  |
| 10/5/2022  | 1.42       |            |             | 0.647 | 5.81  |       |       |
| 10/6/2022  |            |            |             |       |       | 28.2  | 4.84  |
| 4/20/2023  | 0.996      |            | 0.685       | 0.789 |       |       |       |
| 4/21/2023  |            |            |             |       | 4.87  | 26.8  | 2.56  |
| 10/24/2023 | 0.918      |            | 0.498 (J)   |       |       |       | 1.3   |
| 10/25/2023 |            |            |             | 0.875 | 5.35  | 25.9  |       |

# Time Series

Constituent: Chloride (mg/L) Analysis Run 12/8/2023 8:47 AM

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|------------|------------|-------------|-------|-------|-------|-------|
| 3/23/2016  | 6.5        | 5.1        |             | 7.3   | 7.6   | 9     | 6.5   |
| 5/17/2016  | 4.9        |            |             |       | 6.4   | 13    | 5.1   |
| 5/18/2016  |            | 4.2        |             | 6     |       |       |       |
| 7/12/2016  | 5.3        |            |             |       |       |       | 5     |
| 7/13/2016  |            | 4.7        |             | 6.6   | 6.3   | 10    |       |
| 9/13/2016  | 4.8 (F1)   |            |             |       |       | 7.9   | 5.1   |
| 9/14/2016  |            | 4.5        |             | 5.8   | 6     |       |       |
| 11/19/2016 | 7.1        | 6.1        |             | 7.8   | 7     | 9.3   | 6.5   |
| 1/17/2017  | 5.8        | 5.4        |             | 8.4   |       |       | 5.9   |
| 1/18/2017  |            |            |             |       | 6.7   | 8.5   |       |
| 3/22/2017  | 4.9        |            |             |       |       |       | 5.1   |
| 3/23/2017  |            | 5.1        |             | 6.8   | 6     | 8.5   |       |
| 5/24/2017  | 5.9        | 5.5        |             | 7.9   | 7.4   | 11    | 5.9   |
| 10/16/2017 | 5.7        | 6.1        |             | 7.7   | 6.6   | 9.7   | 5.6   |
| 3/28/2018  | 5.7        |            | 6.7         | 7.9   | 6.5   | 8.8   |       |
| 3/29/2018  |            |            |             |       |       |       | 5.3   |
| 6/2/2018   | 4.7        |            | 5.8         | 7.7   | 6.1   | 8.3   | 4.6   |
| 11/8/2018  | 5.6        |            |             | 8.5   | 6.6   |       |       |
| 11/9/2018  |            |            | 7.2         |       |       | 9.7   | 4.9   |
| 2/11/2019  | 4.84       |            |             |       | 6.31  | 8.84  |       |
| 2/12/2019  |            |            | 8.4         | 7.89  |       |       | 4.72  |
| 4/17/2019  | 4.99       |            | 8.03        | 7.71  | 6.68  | 9.24  |       |
| 4/18/2019  |            |            |             |       |       |       | 4.64  |
| 9/27/2019  | 5.08       |            | 8.37        |       |       |       | 5.02  |
| 9/30/2019  |            |            |             | 7.07  | 5.45  | 8.59  |       |
| 4/14/2020  | 4.91       |            | 7.57        | 8.75  | 5.93  | 8.71  | 4.68  |
| 10/30/2020 | 5.55       |            | 7.59        | 9.58  | 6.49  | 8.93  |       |
| 11/2/2020  |            |            |             |       |       |       | 4.91  |
| 3/17/2021  |            |            |             |       | 7.55  | 9.6   |       |
| 3/26/2021  | 5.92       |            | 6.21        | 8.32  |       |       | 8.5   |
| 10/5/2021  | 6.21       |            |             |       | 14.3  |       | 10.3  |
| 10/6/2021  |            |            | 16.4        | 6.8   |       | 5.44  |       |
| 3/16/2022  | 7.85       |            | 11.5        | 7.94  | 17.9  | 10.6  | 13    |
| 10/5/2022  | 6.75       |            |             | 6.04  | 8.84  |       |       |
| 10/6/2022  |            |            |             |       |       | 9.04  | 12.7  |
| 4/20/2023  | 5.22       |            | 9.6         | 5.36  |       |       |       |
| 4/21/2023  |            |            |             |       | 6.78  | 11.3  | 8.95  |
| 10/24/2023 | 6.29       |            | 10          |       |       |       | 8.57  |
| 10/25/2023 |            |            |             | 5.5   | 7.6   | 11.3  |       |

# Time Series

Constituent: Chromium (mg/L) Analysis Run 12/8/2023 8:47 AM  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3       | BAW-4      | BAW-5      | BAW-7       |
|------------|------------|------------|-------------|-------------|------------|------------|-------------|
| 3/23/2016  | <0.002     | <0.0025    |             | <0.002      | 0.0015 (J) | 0.0012 (J) | <0.002      |
| 5/17/2016  | <0.002     |            |             |             | <0.002     | <0.002     | <0.002      |
| 5/18/2016  |            | <0.0025    |             | <0.002      |            |            |             |
| 7/12/2016  | <0.002     |            |             |             |            |            | <0.002      |
| 7/13/2016  |            | 0.0028     |             | 0.003       | 0.0015 (J) | 0.0024 (J) |             |
| 9/13/2016  | <0.002     |            |             |             |            | <0.002     | <0.002      |
| 9/14/2016  |            | 0.0014 (J) |             | <0.002      | <0.002     |            |             |
| 11/19/2016 | <0.002     | <0.0025    |             | <0.002      | 0.0011 (J) | <0.002     | <0.002      |
| 1/17/2017  | <0.002     | <0.0025    |             | <0.002      |            |            | <0.002      |
| 1/18/2017  |            |            |             |             | <0.002     | <0.002     |             |
| 3/22/2017  | <0.002     |            |             |             |            |            | <0.002      |
| 3/23/2017  |            | <0.0025    |             | <0.002      | <0.002     | <0.002     |             |
| 5/24/2017  | <0.002     | <0.0025    |             | <0.002      | <0.002     | <0.002     | <0.002      |
| 3/28/2018  | <0.002     |            | <0.002      | <0.002      | <0.002     | 0.005      |             |
| 3/29/2018  |            |            |             |             |            |            | <0.002      |
| 6/2/2018   | <0.002     |            | <0.002      | <0.002      | <0.002     | <0.002     | <0.002      |
| 11/8/2018  | <0.002     |            |             | <0.002      | <0.002     |            |             |
| 11/9/2018  |            |            | <0.002      |             |            | <0.002     | <0.002      |
| 2/11/2019  | <0.002     |            |             |             | <0.002     | <0.002     |             |
| 2/12/2019  |            |            | <0.002      | 0.00165 (J) |            |            | <0.002      |
| 4/17/2019  | <0.002     |            | <0.002      | <0.002      | <0.002     | <0.002     |             |
| 4/18/2019  |            |            |             |             |            |            | <0.002      |
| 9/27/2019  | 0.00286    |            | 0.00284     |             |            |            | 0.00206 (J) |
| 9/30/2019  |            |            |             | <0.002      | <0.002     | <0.002     |             |
| 2/21/2020  | <0.002     |            | <0.002      | <0.002      |            |            | <0.002      |
| 2/22/2020  |            |            |             |             | <0.002     | <0.002     |             |
| 10/30/2020 | <0.002     |            | <0.002      | <0.002      | <0.002     | <0.002     |             |
| 11/2/2020  |            |            |             |             |            |            | <0.002      |
| 3/17/2021  |            |            |             |             | <0.002     | <0.002     |             |
| 3/26/2021  | <0.002     |            | <0.002      | <0.002      |            |            | <0.002      |
| 10/5/2021  | <0.002     |            |             |             | <0.002     |            | <0.002      |
| 10/6/2021  |            |            | <0.002      | <0.002      |            | <0.002     |             |
| 3/16/2022  | <0.002     |            | <0.002      | <0.002      | <0.002     | <0.002     | <0.002      |
| 10/5/2022  | <0.002     |            |             | 0.0191      | <0.002     |            |             |
| 10/6/2022  |            |            |             |             |            | <0.002     | <0.002      |
| 4/20/2023  | <0.002     |            | <0.002      | <0.002      |            |            |             |
| 4/21/2023  |            |            |             |             | <0.002     | <0.002     | <0.002      |
| 10/24/2023 | <0.002     |            | <0.002      |             |            |            | <0.002      |
| 10/25/2023 |            |            |             | <0.002      | <0.002     | <0.002     |             |

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/8/2023 8:47 AM  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg)   | BAW-2 (bg)  | BAW-2A (bg)  | BAW-3   | BAW-4        | BAW-5       | BAW-7        |
|------------|--------------|-------------|--------------|---------|--------------|-------------|--------------|
| 3/23/2016  | <0.0025      | 0.00048 (J) |              | 0.0055  | 0.00094 (J)  | <0.0005     | 0.0011 (J)   |
| 5/17/2016  | 0.00099 (J)  |             |              |         | 0.0007 (J)   | <0.0005     | 0.001 (J)    |
| 5/18/2016  |              | <0.0025     |              | 0.0059  |              |             |              |
| 7/12/2016  | 0.00093 (J)  |             |              |         |              |             | 0.00091 (J)  |
| 7/13/2016  |              | 0.001 (J)   |              | 0.0048  | 0.0016 (J)   | 0.00042 (J) |              |
| 9/13/2016  | 0.0011 (J)   |             |              |         |              | <0.0005     | 0.001 (J)    |
| 9/14/2016  |              | 0.00051 (J) |              | 0.0063  | 0.0011 (J)   |             |              |
| 11/19/2016 | 0.001 (J)    | 0.0005 (J)  |              | 0.0056  | 0.0012 (J)   | <0.0005     | 0.00083 (J)  |
| 1/17/2017  | 0.00088 (J)  | 0.00049 (J) |              | 0.0046  |              |             | 0.00091 (J)  |
| 1/18/2017  |              |             |              |         | 0.0011 (J)   | <0.0005     |              |
| 3/22/2017  | 0.001 (J)    |             |              |         |              |             | 0.00098 (J)  |
| 3/23/2017  |              | 0.00057 (J) |              | 0.0049  | 0.0011 (J)   | <0.0005     |              |
| 5/24/2017  | 0.00093 (J)  | 0.00057 (J) |              | 0.0052  | 0.0012 (J)   | <0.0005     | 0.00098 (J)  |
| 3/28/2018  | 0.00092 (J)  |             | 0.00098 (J)  | 0.0063  | 0.00095 (J)  | <0.0005     |              |
| 3/29/2018  |              |             |              |         |              |             | 0.00063 (J)  |
| 6/2/2018   | 0.001 (J)    |             | 0.0009 (J)   | 0.0068  | 0.0012 (J)   | <0.0005     | 0.00087 (J)  |
| 11/8/2018  | 0.001 (J)    |             |              | 0.0068  | 0.0011 (J)   |             |              |
| 11/9/2018  |              |             | 0.00075 (J)  |         |              | <0.0005     | 0.00076 (J)  |
| 2/11/2019  | 0.000768 (J) |             |              |         | 0.00093 (J)  | <0.0005     |              |
| 2/12/2019  |              |             | 0.000896 (J) | 0.00552 |              |             | 0.000661 (J) |
| 4/17/2019  | 0.000825 (J) |             | 0.00106 (J)  | 0.00603 | 0.00116 (J)  | <0.0005     |              |
| 4/18/2019  |              |             |              |         |              |             | 0.000705 (J) |
| 9/27/2019  | 0.000783 (J) |             | 0.000885 (J) |         |              |             | 0.00071 (J)  |
| 9/30/2019  |              |             |              | 0.0062  | 0.001 (J)    | <0.0005     |              |
| 2/21/2020  | 0.00073 (J)  |             | 0.000909 (J) | 0.00576 |              |             | 0.000634 (J) |
| 2/22/2020  |              |             |              |         | 0.000907 (J) | <0.0005     |              |
| 4/14/2020  | 0.000853 (J) |             | 0.000899 (J) | 0.00633 | 0.00105 (J)  | <0.0005     | 0.000684 (J) |
| 10/30/2020 | 0.000924 (J) |             | 0.000972 (J) | 0.00657 | 0.00102 (J)  | <0.0005     |              |
| 11/2/2020  |              |             |              |         |              |             | 0.000729 (J) |
| 3/17/2021  |              |             |              |         | 0.00208      | <0.0005     |              |
| 3/26/2021  | 0.000961     |             | 0.000744     | 0.00339 |              |             | 0.000995     |
| 10/5/2021  | 0.00143      |             |              |         | 0.00187      |             | 0.00112      |
| 10/6/2021  |              |             | <0.0005      | 0.00336 |              | 0.000802    |              |
| 3/16/2022  | 0.00177      |             | 0.000658     | 0.00289 | 0.00182      | 0.000967    | 0.00141      |
| 10/5/2022  | 0.002        |             |              | 0.00821 | 0.00121      |             |              |
| 10/6/2022  |              |             |              |         |              | 0.00143     | 0.00548      |
| 4/20/2023  | 0.00142      |             | 0.000995     | 0.0083  |              |             |              |
| 4/21/2023  |              |             |              |         | 0.00142      | 0.00275     | 0.00216      |
| 10/24/2023 | 0.00123      |             | 0.000565     |         |              |             | 0.00143      |
| 10/25/2023 |              |             |              | 0.0092  | 0.00187      | 0.000885    |              |

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/8/2023 8:47 AM

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg)   | BAW-2 (bg) | BAW-2A (bg) | BAW-3       | BAW-4       | BAW-5      | BAW-7       |
|------------|--------------|------------|-------------|-------------|-------------|------------|-------------|
| 3/23/2016  | <5           | <5         |             | <5          | <5          | 0.549      | <5          |
| 5/17/2016  | 0.813        |            |             |             | <5          | 0.551      | <5          |
| 5/18/2016  |              | 0.471      |             | <5          |             |            |             |
| 7/12/2016  | -0.00163 (U) |            |             |             |             |            | 0.165 (U)   |
| 7/13/2016  |              | 0.401      |             | 0.27 (U)    | 0.0365 (U)  | 0.859      |             |
| 9/13/2016  | 0.41 (U)     |            |             |             |             | 0.367 (U)  | 0.341 (U)   |
| 9/14/2016  |              | -0.033 (U) |             | -0.0909 (U) | 0.3 (U)     |            |             |
| 11/19/2016 | 0.783        | 0.358      |             | 0.416       | <5 (U)      | <5 (U)     | <5 (U)      |
| 1/17/2017  | 0.613        | 0.799      |             | 0.412 (U)   |             |            | 0.124 (U)   |
| 1/18/2017  |              |            |             |             | 0.235 (U)   | 0.289 (U)  |             |
| 3/22/2017  | 0.241 (U)    |            |             |             |             |            | 0.0719 (U)  |
| 3/23/2017  |              | 0.182 (U)  |             | 0.0761 (U)  | 0.168 (U)   | 0.554      |             |
| 5/24/2017  | 0.325        | 0.404      |             | 0.0415 (U)  | -0.0607 (U) | 0.831      | 0.441       |
| 3/28/2018  | 0.318 (U)    |            | 0.629       | 0.398       | 0.42        | 0.458      |             |
| 3/29/2018  |              |            |             |             |             |            | 0.731       |
| 6/2/2018   | 0.222 (U)    |            | -0.478 (U)  | -0.253 (U)  | 0.0844 (U)  | 0.226 (U)  | 0.303 (U)   |
| 11/8/2018  | 0.117 (U)    |            |             | 0.343 (U)   | 0.367 (U)   |            |             |
| 11/9/2018  |              |            | 0.179 (U)   |             |             | 0.298 (U)  | 0.00226 (U) |
| 2/11/2019  | 0.493        |            |             |             | 0.0402 (U)  | 0.15 (U)   |             |
| 2/12/2019  |              |            | 0.432       | 0.581       |             |            | 0.094 (U)   |
| 4/17/2019  | 0.729        |            | 0.648       | 0.646       | 0.493       | 0.326 (U)  |             |
| 4/18/2019  |              |            |             |             |             |            | 0.48        |
| 9/27/2019  | 0.36 (U)     |            | 0.422 (U)   |             |             |            | 0.497       |
| 9/30/2019  |              |            |             | 1           | 0.404       |            |             |
| 2/21/2020  | 0.268 (U)    |            | 0.23 (U)    | 0.126 (U)   |             |            | 0.375       |
| 2/22/2020  |              |            |             |             | 0.53        | 0.47       |             |
| 4/14/2020  | 0.324 (U)    |            | 0.307 (U)   | 0.338       | 0.0408 (U)  | 0.376 (U)  | 0.329 (U)   |
| 10/30/2020 | 0.497        |            | 1.02        | 0.485       | 0.344       | 0.528      |             |
| 11/2/2020  |              |            |             |             |             |            | 0.535       |
| 3/17/2021  |              |            |             |             | 0.312 (U)   | 0.0889 (U) |             |
| 3/26/2021  | 0.804        |            | 0.526       | 0.78        |             |            | 0.813       |
| 10/5/2021  | 1.53         |            |             |             | 1.06        |            | 0.814       |
| 10/6/2021  |              |            | 0.937       | 0.503       |             | 0.931      |             |
| 3/16/2022  | 1.13         |            | 0.458       | 0.286 (U)   | 0.314 (U)   | 1.39       | 1.39        |
| 10/21/2022 | 0.946        |            |             | 1.29        | 0.562 (U)   | 1.36       | 2.03        |
| 4/20/2023  | 0.647        |            | 0.935       | 0.884       |             |            |             |
| 4/21/2023  |              |            |             |             | 0.158 (U)   | 1.73       | 0.802       |
| 10/24/2023 | 0.563        |            | 0.521       |             |             |            | 0.7         |
| 10/25/2023 |              |            |             | 0.857       | 0.472 (U)   | 1.49       |             |



# Time Series

Constituent: Fluoride (mg/L) Analysis Run 12/8/2023 8:47 AM

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3      | BAW-4      | BAW-5      | BAW-7      |
|------------|------------|------------|-------------|------------|------------|------------|------------|
| 3/23/2016  | <0.1       | <0.1       |             | <0.1       | 0.04 (J)   | 0.06 (J)   | <0.1       |
| 5/17/2016  | <0.1       |            |             |            | 0.04 (J)   | 0.07 (J)   | <0.1       |
| 5/18/2016  |            | <0.1       |             | <0.1       |            |            |            |
| 7/12/2016  | <0.1       |            |             |            |            |            | <0.1       |
| 7/13/2016  |            | <0.1       |             | <0.1       | 0.05 (J)   | 0.08 (J)   |            |
| 9/13/2016  | <0.1       |            |             |            |            | 0.06 (J)   | <0.1       |
| 9/14/2016  |            | <0.1       |             | <0.1       | 0.04 (J)   |            |            |
| 11/19/2016 | <0.1       | <0.1       |             | <0.1       | 0.04 (J)   | 0.06 (J)   | <0.1       |
| 1/17/2017  | <0.1       | <0.1       |             | <0.1       |            |            | <0.1       |
| 1/18/2017  |            |            |             |            | <0.1       | 0.05 (J)   |            |
| 3/22/2017  | <0.1       |            |             |            |            |            | <0.1       |
| 3/23/2017  |            | <0.1       |             | <0.1       | <0.1       | 0.05 (J)   |            |
| 5/24/2017  | <0.1       | <0.1       |             | <0.1       | 0.04 (J)   | 0.06 (J)   | <0.1 (D)   |
| 10/16/2017 | <0.1       | <0.1       |             | <0.1       | <0.1       | 0.06 (J)   | <0.1       |
| 3/28/2018  | <0.1       |            | <0.1        | <0.1       | 0.04 (J)   | 0.06 (J)   |            |
| 3/29/2018  |            |            |             |            |            |            | <0.1       |
| 6/2/2018   | <0.1       |            | <0.1        | <0.1       | 0.05 (J)   | 0.06 (J)   | <0.1       |
| 11/8/2018  | <0.1       |            |             | <0.1       | 0.05 (J)   |            |            |
| 11/9/2018  |            |            | <0.1        |            |            | 0.06 (J)   | <0.1       |
| 2/11/2019  | <0.1       |            |             |            | <0.1       | 0.0368 (J) |            |
| 2/12/2019  |            |            | <0.1        | <0.1       |            |            | <0.1       |
| 4/17/2019  | <0.1       |            | <0.1        | <0.1       | 0.033 (J)  | 0.0421 (J) |            |
| 4/18/2019  |            |            |             |            |            |            | <0.1       |
| 9/27/2019  | <0.1       |            | 0.0313 (J)  |            |            |            | <0.1       |
| 9/30/2019  |            |            |             | <0.1       | <0.1       | 0.045 (J)  |            |
| 2/21/2020  | <0.1       |            | <0.1        | <0.1       |            |            | <0.1       |
| 2/22/2020  |            |            |             |            | 0.0317 (J) | 0.0434 (J) |            |
| 4/14/2020  | 0.0532 (J) |            | 0.0537 (J)  | 0.034 (J)  | 0.0508 (J) | 0.059 (J)  | 0.0415 (J) |
| 10/30/2020 | <0.1       |            | <0.1        | <0.1       | <0.1       | <0.1       |            |
| 11/2/2020  |            |            |             |            |            |            | <0.1       |
| 3/17/2021  |            |            |             |            | 0.0544 (J) | 0.0575 (J) |            |
| 3/26/2021  | <0.1       |            | <0.1        | <0.1       |            |            | <0.1       |
| 10/5/2021  | 0.0499 (J) |            |             |            | 0.0505 (J) |            | <0.1       |
| 10/6/2021  |            |            | <0.1        | <0.1       |            | 0.0725 (J) |            |
| 3/16/2022  | <0.1       |            | <0.1        | 0.0307 (J) | 0.0462 (J) | 0.176      | 0.0266 (J) |
| 10/5/2022  | <0.1       |            |             | <0.1       | 0.0322 (J) |            |            |
| 10/6/2022  |            |            |             |            |            | 0.0972 (J) | <0.1       |
| 4/20/2023  | <0.1       |            | 0.0278 (J)  | <0.1       |            |            |            |
| 4/21/2023  |            |            |             |            | 0.0441 (J) | 0.0665 (J) | <0.1       |
| 10/24/2023 | <0.1       |            | 0.0276 (J)  |            |            |            | <0.1       |
| 10/25/2023 |            |            |             | <0.1       | 0.0393 (J) | 0.0858 (J) |            |

# Time Series

Constituent: Lead (mg/L) Analysis Run 12/8/2023 8:47 AM

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3        | BAW-4        | BAW-5        | BAW-7        |
|------------|------------|------------|-------------|--------------|--------------|--------------|--------------|
| 3/23/2016  | <0.001     | <0.0013    |             | <0.001       | 0.00039 (J)  | <0.001       | <0.001       |
| 5/17/2016  | <0.001     |            |             |              | <0.001       | <0.001       | <0.001       |
| 5/18/2016  |            | <0.0013    |             | <0.001       |              |              |              |
| 7/12/2016  | <0.001     |            |             |              |              |              | <0.001       |
| 7/13/2016  |            | <0.0013    |             | <0.001       | <0.001       | <0.001       |              |
| 9/13/2016  | <0.001     |            |             |              |              | <0.001       | <0.001       |
| 9/14/2016  |            | <0.0013    |             | 0.00056 (J)  | <0.001       |              |              |
| 11/19/2016 | <0.001     | <0.0013    |             | <0.001       | 0.00042 (J)  | <0.001       | <0.001       |
| 1/17/2017  | <0.001     | <0.0013    |             | <0.001       |              |              | <0.001       |
| 1/18/2017  |            |            |             |              | <0.001       | <0.001       |              |
| 3/22/2017  | <0.001     |            |             |              |              |              | <0.001       |
| 3/23/2017  |            | <0.0013    |             | 0.00038 (J)  | <0.001       | <0.001       |              |
| 5/24/2017  | <0.001     | <0.0013    |             | 0.00036 (J)  | <0.001       | <0.001       | <0.001       |
| 3/28/2018  | <0.001     |            | <0.001      | <0.001       | <0.001       | <0.001       |              |
| 3/29/2018  |            |            |             |              |              |              | <0.001       |
| 11/8/2018  | <0.001     |            |             | <0.001       | <0.001       |              |              |
| 11/9/2018  |            |            | <0.001      |              |              | <0.001       | <0.001       |
| 2/11/2019  | <0.001     |            |             |              | <0.001       | <0.001       |              |
| 2/12/2019  |            |            | <0.001      | 0.000139 (J) |              |              | <0.001       |
| 4/17/2019  | <0.001     |            | <0.001      | <0.001       | <0.001       | <0.001       |              |
| 4/18/2019  |            |            |             |              |              |              | <0.001       |
| 9/27/2019  | <0.001     |            | <0.001      |              |              |              | 0.000129 (J) |
| 9/30/2019  |            |            |             | 0.000322 (J) | 0.000191 (J) | 0.000152 (J) |              |
| 2/21/2020  | <0.001     |            | <0.001      | 0.00015 (J)  |              |              | <0.001       |
| 2/22/2020  |            |            |             |              | <0.001       | <0.001       |              |
| 4/14/2020  | <0.001     |            | <0.001      | 0.000236 (J) | <0.001       | <0.001       | <0.001       |
| 10/30/2020 | <0.001     |            | <0.001      | 0.000136 (J) | <0.001       | <0.001       |              |
| 11/2/2020  |            |            |             |              |              |              | <0.001       |
| 3/17/2021  |            |            |             |              | 0.000153 (J) | <0.001       |              |
| 3/26/2021  | <0.001     |            | <0.001      | 0.000145 (J) |              |              | <0.001       |
| 10/5/2021  | <0.001     |            |             |              | <0.001       |              | <0.001       |
| 10/6/2021  |            |            | <0.001      | <0.001       |              | <0.001       |              |
| 3/16/2022  | <0.001     |            | <0.001      | <0.001       | <0.001       | <0.001       | <0.001       |
| 10/5/2022  | <0.001     |            |             | <0.001       | <0.001       |              |              |
| 10/6/2022  |            |            |             |              |              | <0.001       | <0.001       |
| 4/20/2023  | <0.001     |            | <0.001      | <0.001       |              |              |              |
| 4/21/2023  |            |            |             |              | <0.001       | <0.001       | <0.001       |
| 10/24/2023 | <0.001     |            | <0.001      |              |              |              | <0.001       |
| 10/25/2023 |            |            |             | <0.001       | <0.001       | <0.001       |              |

# Time Series

Constituent: Lithium (mg/L) Analysis Run 12/8/2023 8:47 AM  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg)  | BAW-2 (bg) | BAW-2A (bg) | BAW-3       | BAW-4   | BAW-5  | BAW-7       |
|------------|-------------|------------|-------------|-------------|---------|--------|-------------|
| 3/23/2016  | <0.005      | <0.005     |             | <0.005      | 0.044   | 0.17   | <0.005      |
| 5/17/2016  | 0.0037 (J)  |            |             |             | 0.028   | 0.2    | <0.005      |
| 5/18/2016  |             | <0.005     |             | <0.005      |         |        |             |
| 7/12/2016  | 0.012 (o)   |            |             |             |         |        | <0.005      |
| 7/13/2016  |             | <0.005     |             | <0.005      | 0.026   | 0.17   |             |
| 9/13/2016  | <0.005      |            |             |             |         | 0.17   | <0.005      |
| 9/14/2016  |             | <0.005     |             | <0.005      | 0.026   |        |             |
| 11/19/2016 | <0.005      | <0.005     |             | <0.005      | 0.026   | 0.18   | 0.0035 (J)  |
| 1/17/2017  | <0.005      | <0.005     |             | <0.005      |         |        | <0.005      |
| 1/18/2017  |             |            |             |             | 0.027   | 0.2    |             |
| 3/22/2017  | <0.005      |            |             |             |         |        | <0.005      |
| 3/23/2017  |             | <0.005     |             | <0.005      | 0.024   | 0.19   |             |
| 5/24/2017  | <0.005      | <0.005     |             | <0.005      | 0.027   | 0.21   | <0.005      |
| 3/28/2018  | <0.005      |            | 0.0026 (J)  | 0.0023 (J)  | 0.021   | 0.23   |             |
| 3/29/2018  |             |            |             |             |         |        | 0.0026 (J)  |
| 6/2/2018   | 0.0017 (J)  |            | 0.0021 (J)  | 0.002 (J)   | 0.022   | 0.19   | 0.0029 (J)  |
| 11/8/2018  | 0.0023 (J)  |            |             | 0.0024 (J)  | 0.025   |        |             |
| 11/9/2018  |             |            | 0.0024 (J)  |             |         | 0.18   | 0.0027 (J)  |
| 2/11/2019  | <0.005      |            |             |             | 0.0229  | 0.161  |             |
| 2/12/2019  |             |            | <0.005      | <0.005      |         |        | <0.005      |
| 4/17/2019  | 0.00229 (J) |            | 0.00191 (J) | 0.00197 (J) | 0.0236  | 0.174  |             |
| 4/18/2019  |             |            |             |             |         |        | 0.00238 (J) |
| 9/27/2019  | 0.00346 (J) |            | <0.005      |             |         |        | 0.00375 (J) |
| 9/30/2019  |             |            |             | 0.00687     | 0.0249  | 0.166  |             |
| 2/21/2020  | <0.005      |            | <0.005      | <0.005      |         |        | <0.005      |
| 2/22/2020  |             |            |             |             | 0.0211  | 0.169  |             |
| 4/14/2020  | 0.00505     |            | <0.005      | <0.005      | 0.0224  | 0.192  | <0.005      |
| 10/30/2020 | <0.005      |            | <0.005      | <0.005      | 0.0267  | 0.194  |             |
| 11/2/2020  |             |            |             |             |         |        | <0.005      |
| 3/17/2021  |             |            |             |             | 0.0174  | 0.12   |             |
| 3/26/2021  | <0.005      |            | <0.005      | <0.005      |         |        | <0.005      |
| 10/5/2021  | <0.005      |            |             |             | 0.0127  |        | 0.0045 (J)  |
| 10/6/2021  |             |            | <0.005      | <0.005      |         | 0.0994 |             |
| 3/16/2022  | 0.00171 (J) |            | 0.00165 (J) | 0.0038 (J)  | 0.0112  | 0.0629 | 0.00437 (J) |
| 10/5/2022  | <0.005      |            |             | 0.00322 (J) | 0.00676 |        |             |
| 10/6/2022  |             |            |             |             |         | 0.0534 | 0.0123      |
| 4/20/2023  | <0.005      |            | 0.00235 (J) | 0.00309 (J) |         |        |             |
| 4/21/2023  |             |            |             |             | 0.0091  | 0.0564 | 0.0107      |
| 10/24/2023 | <0.005      |            | <0.005      |             |         |        | 0.00555     |
| 10/25/2023 |             |            |             | 0.0033 (J)  | 0.0123  | 0.0679 |             |

# Time Series

Constituent: Mercury (mg/L) Analysis Run 12/8/2023 8:47 AM

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg)  | BAW-2 (bg)  | BAW-2A (bg) | BAW-3        | BAW-4        | BAW-5        | BAW-7        |
|------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|
| 3/23/2016  | <0.0002     | <0.0002     |             | 8.4E-05 (JB) | 7.3E-05 (JB) | 7.4E-05 (JB) | 7.1E-05 (JB) |
| 5/17/2016  | <0.0002     |             |             |              | <0.0002      | <0.0002      | <0.0002      |
| 5/18/2016  |             | <0.0002     |             | <0.0002      |              |              |              |
| 7/12/2016  | <0.0002     |             |             |              |              |              | <0.0002      |
| 7/13/2016  |             | <0.0002     |             | <0.0002      | <0.0002      | <0.0002      |              |
| 9/13/2016  | <0.0002     |             |             |              |              | <0.0002      | <0.0002      |
| 9/14/2016  |             | <0.0002     |             | <0.0002      | <0.0002      |              |              |
| 11/19/2016 | <0.0002     | <0.0002     |             | <0.0002      | <0.0002      | <0.0002      | <0.0002      |
| 1/17/2017  | <0.0002     | <0.0002     |             | <0.0002      |              |              | <0.0002      |
| 1/18/2017  |             |             |             |              | <0.0002      | <0.0002      |              |
| 3/22/2017  | 0.00011 (J) |             |             |              |              |              | <0.0002      |
| 3/23/2017  |             | 0.00013 (J) |             | 0.00013 (J)  | 0.00013 (J)  | <0.0002      |              |
| 5/24/2017  | <0.0002     | <0.0002     |             | <0.0002      | <0.0002      | <0.0002      | <0.0002      |
| 3/28/2018  | <0.0002     |             | <0.0002     | <0.0002      | <0.0002      | <0.0002      |              |
| 3/29/2018  |             |             |             |              |              |              | <0.0002      |
| 2/11/2019  | <0.0002     |             |             |              | <0.0002      | <0.0002      |              |
| 2/12/2019  |             |             | <0.0002     | <0.0002      |              |              | <0.0002      |
| 4/17/2019  | <0.0002     |             | <0.0002     | <0.0002      | <0.0002      | <0.0002      |              |
| 4/18/2019  |             |             |             |              |              |              | <0.0002      |
| 2/21/2020  | <0.0002     |             | <0.0002     | <0.0002      |              |              | <0.0002      |
| 2/22/2020  |             |             |             |              | <0.0002      | <0.0002      |              |
| 10/30/2020 | <0.0002     |             | <0.0002     | 0.000497     | <0.0002      | <0.0002      |              |
| 11/2/2020  |             |             |             |              |              |              | <0.0002      |
| 3/17/2021  |             |             |             |              | <0.0002      | <0.0002      |              |
| 3/26/2021  | <0.0002     |             | <0.0002     | <0.0002      |              |              | 0.000235     |
| 10/5/2021  | <0.0002     |             |             |              | <0.0002      |              | 0.000151 (J) |
| 10/6/2021  |             |             | <0.0002     | <0.0002      |              | <0.0002      |              |
| 3/16/2022  | <0.0002     |             | <0.0002     | <0.0002      | <0.0002      | <0.0002      | 0.0012       |
| 10/5/2022  | <0.0002     |             |             | <0.0002      | <0.0002      |              |              |
| 10/6/2022  |             |             |             |              |              | <0.0002      | <0.0002      |
| 4/20/2023  | <0.0002     |             | <0.0002     | <0.0002      |              |              |              |
| 4/21/2023  |             |             |             |              | <0.0002      | <0.0002      | <0.0002      |
| 10/24/2023 | <0.0002     |             | <0.0002     |              |              |              | <0.0002      |
| 10/25/2023 |             |             |             | <0.0002      | <0.0002      | <0.0002      |              |

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/8/2023 8:47 AM

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-2 (bg)  | BAW-2A (bg) | BAW-3  | BAW-4        | BAW-5        | BAW-7      |
|------------|------------|-------------|-------------|--------|--------------|--------------|------------|
| 3/23/2016  | <0.005     | 0.0019 (J)  |             | <0.005 | <0.005       | 0.0026 (J)   | <0.005     |
| 5/17/2016  | <0.005     |             |             |        | <0.005       | 0.0011 (J)   | <0.005     |
| 5/18/2016  |            | 0.00096 (J) |             | <0.005 |              |              |            |
| 7/12/2016  | <0.005     |             |             |        |              |              | <0.005     |
| 7/13/2016  |            | 0.0017 (J)  |             | <0.005 | <0.005       | 0.0079 (J)   |            |
| 9/13/2016  | <0.005     |             |             |        |              | 0.0038 (J)   | <0.005     |
| 9/14/2016  |            | 0.0018 (J)  |             | <0.005 | <0.005       |              |            |
| 11/19/2016 | <0.005     | <0.015      |             | <0.005 | <0.005       | 0.0014 (J)   | <0.005     |
| 1/17/2017  | <0.005     | <0.015      |             | <0.005 |              |              | <0.005     |
| 1/18/2017  |            |             |             |        | <0.005       | 0.001 (J)    |            |
| 3/22/2017  | <0.005     |             |             |        |              |              | 0.0038 (J) |
| 3/23/2017  |            | <0.015      |             | <0.005 | <0.005       | <0.015       |            |
| 5/24/2017  | <0.005     | <0.015      |             | <0.005 | <0.005       | 0.0014 (J)   | <0.005     |
| 3/28/2018  | <0.005     |             | <0.005      | <0.005 | <0.005       | <0.015       |            |
| 3/29/2018  |            |             |             |        |              |              | <0.005     |
| 11/8/2018  | <0.005     |             |             | <0.005 | <0.005       |              |            |
| 11/9/2018  |            |             | <0.005      |        |              | <0.015       | <0.005     |
| 2/11/2019  | <0.005     |             |             |        | <0.005       | <0.015       |            |
| 2/12/2019  |            |             | <0.005      | <0.005 |              |              | <0.005     |
| 4/17/2019  | <0.005     |             | <0.005      | <0.005 | <0.005       | <0.015       |            |
| 4/18/2019  |            |             |             |        |              |              | <0.005     |
| 2/21/2020  | <0.005     |             | <0.005      | <0.005 |              |              | <0.005     |
| 2/22/2020  |            |             |             |        | 0.000616 (J) | 0.000627 (J) |            |
| 4/14/2020  | <0.005     |             | <0.005      | <0.005 | <0.005       | 0.000747 (J) | <0.005     |
| 10/30/2020 | <0.005     |             | <0.005      | <0.005 | <0.005       | <0.015       |            |
| 11/2/2020  |            |             |             |        |              |              | <0.005     |
| 3/17/2021  |            |             |             |        | 0.0032 (J)   | 0.00328 (J)  |            |
| 3/26/2021  | <0.005     |             | <0.005      | <0.005 |              |              | <0.005     |
| 10/5/2021  | <0.005     |             |             |        | 0.00109 (J)  |              | <0.005     |
| 10/6/2021  |            |             | <0.005      | <0.005 |              | 0.00364 (J)  |            |
| 3/16/2022  | <0.005     |             | <0.005      | <0.005 | 0.000916 (J) | 0.00533      | <0.005     |
| 10/5/2022  | <0.005     |             |             | <0.005 | 0.000939 (J) |              |            |
| 10/6/2022  |            |             |             |        |              | 0.00424 (J)  | <0.005     |
| 4/20/2023  | <0.005     |             | <0.005      | <0.005 |              |              |            |
| 4/21/2023  |            |             |             |        | 0.00109 (J)  | 0.00651      | <0.005     |
| 10/24/2023 | <0.005     |             | <0.005      |        |              |              | <0.005     |
| 10/25/2023 |            |             |             | <0.005 | <0.005       | 0.0036 (J)   |            |

# Time Series

Constituent: pH (SU) Analysis Run 12/8/2023 8:47 AM

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|------------|------------|-------------|-------|-------|-------|-------|
| 3/23/2016  | 5.12       | 5.52       |             | 5.05  | 5.38  | 6.64  | 4.89  |
| 5/17/2016  | 5.23       |            |             |       | 5.32  | 6.52  | 4.92  |
| 5/18/2016  |            | 5.24       |             | 4.86  |       |       |       |
| 7/12/2016  | 5.77       |            |             |       |       |       | 4.93  |
| 7/13/2016  |            | 5.17       |             | 5.11  | 5.31  | 6.63  |       |
| 9/13/2016  | 4.98       |            |             |       |       | 6.46  | 4.76  |
| 9/14/2016  |            | 5.04       |             | 4.84  | 5.21  |       |       |
| 11/19/2016 | 4.82       | 4.88       |             | 4.74  | 5.12  | 6.38  | 4.56  |
| 1/17/2017  | 5.04       | 5.04       |             | 4.95  |       |       | 4.86  |
| 1/18/2017  |            |            |             |       | 5.22  | 6.47  |       |
| 3/22/2017  | 4.73       |            |             |       |       |       | 4.66  |
| 3/23/2017  |            | 4.66       |             | 4.66  | 5.01  | 6.19  |       |
| 5/24/2017  | 5.01       | 4.93       |             | 4.86  | 5.19  | 6.34  | 4.83  |
| 10/16/2017 | 4.59       | 4.65       |             | 4.47  | 4.96  | 6.23  | 4.53  |
| 3/28/2018  | 4.87       |            | 5.39        | 4.93  | 5.23  | 6.22  |       |
| 3/29/2018  |            |            |             |       |       |       | 4.87  |
| 6/2/2018   | 4.92       |            | 5.06        | 4.83  | 5.22  | 6.24  | 4.87  |
| 11/8/2018  | 5          |            |             | 4.83  | 5.29  |       |       |
| 11/9/2018  |            |            | 4.92        |       |       | 6.27  | 4.92  |
| 2/11/2019  | 4.7        |            |             |       | 5     | 6.08  |       |
| 2/12/2019  |            |            | 4.86        | 4.65  |       |       | 4.79  |
| 4/17/2019  | 4.9        |            | 4.79        | 4.71  | 5.13  | 6.14  |       |
| 4/18/2019  |            |            |             |       |       |       | 4.9   |
| 2/21/2020  | 4.86       |            | 4.73        | 4.55  |       |       | 4.8   |
| 2/22/2020  |            |            |             |       | 5.3   | 6.13  |       |
| 4/14/2020  | 5.23       |            | 4.87        | 4.7   | 5.45  | 6.26  | 4.94  |
| 10/30/2020 | 5          |            | 4.87        | 4.8   | 5.32  | 6.19  |       |
| 11/2/2020  |            |            |             |       |       |       | 4.92  |
| 3/17/2021  |            |            |             |       | 5.62  | 6.14  |       |
| 3/26/2021  | 4.86       |            | 4.7         | 4.54  |       |       | 4.67  |
| 10/5/2021  | 5          |            |             |       | 5.72  |       | 4.84  |
| 10/6/2021  |            |            | 4.77        | 4.63  |       | 6.03  |       |
| 3/16/2022  | 4.92       |            | 4.91        | 4.64  | 5.56  | 6.2   | 4.75  |
| 10/5/2022  | 4.91       |            |             | 4.51  | 5.57  |       |       |
| 10/6/2022  |            |            |             |       |       | 6.27  | 4.71  |
| 4/20/2023  | 4.89       |            | 4.83        | 4.49  |       |       |       |
| 4/21/2023  |            |            |             |       | 5.45  | 6.09  | 4.95  |
| 10/24/2023 | 4.99       |            | 4.98        |       |       |       | 4.91  |
| 10/25/2023 |            |            |             | 4.43  | 5.42  | 6.11  |       |

# Time Series

Constituent: Selenium (mg/L) Analysis Run 12/8/2023 8:47 AM

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg)  | BAW-2 (bg)  | BAW-2A (bg) | BAW-3       | BAW-4  | BAW-5       | BAW-7       |
|------------|-------------|-------------|-------------|-------------|--------|-------------|-------------|
| 3/23/2016  | <0.005      | 0.00041 (J) |             | 0.00033 (J) | <0.005 | <0.005      | <0.005      |
| 5/17/2016  | <0.005      |             |             |             | <0.005 | <0.005      | 0.00026 (J) |
| 5/18/2016  |             | <0.0013     |             | <0.005      |        |             |             |
| 7/12/2016  | <0.005      |             |             |             |        |             | <0.005      |
| 7/13/2016  |             | <0.0013     |             | 0.00041 (J) | <0.005 | <0.005      |             |
| 9/13/2016  | <0.005      |             |             |             |        | <0.005      | 0.00031 (J) |
| 9/14/2016  |             | <0.0013     |             | 0.00079 (J) | <0.005 |             |             |
| 11/19/2016 | <0.005      | <0.0013     |             | <0.005      | <0.005 | <0.005      | <0.005      |
| 1/17/2017  | <0.005      | <0.0013     |             | <0.005      |        |             | <0.005      |
| 1/18/2017  |             |             |             |             | <0.005 | <0.005      |             |
| 3/22/2017  | <0.005      |             |             |             |        |             | 0.0021      |
| 3/23/2017  |             | <0.0013     |             | <0.005      | <0.005 | <0.005      |             |
| 5/24/2017  | <0.005      | 0.00026 (J) |             | 0.00028 (J) | <0.005 | 0.00033 (J) | 0.00026 (J) |
| 3/28/2018  | <0.005      |             | 0.00024 (J) | 0.00038 (J) | <0.005 | <0.005      |             |
| 3/29/2018  |             |             |             |             |        |             | 0.00036 (J) |
| 6/2/2018   | 0.00064 (J) |             | <0.005      | 0.00031 (J) | <0.005 | <0.005      | <0.005      |
| 11/8/2018  | 0.0025      |             |             | 0.00088 (J) | <0.005 |             |             |
| 11/9/2018  |             |             | 0.00098 (J) |             |        | <0.005      | <0.005      |
| 2/11/2019  | <0.005      |             |             |             | <0.005 | <0.005      |             |
| 2/12/2019  |             |             | <0.005      | <0.005      |        |             | <0.005      |
| 4/17/2019  | <0.005      |             | <0.005      | <0.005      | <0.005 | <0.005      |             |
| 4/18/2019  |             |             |             |             |        |             | <0.005      |
| 2/21/2020  | <0.005      |             | <0.005      | <0.005      |        |             | <0.005      |
| 2/22/2020  |             |             |             |             | <0.005 | <0.005      |             |
| 10/30/2020 | <0.005      |             | <0.005      | <0.005      | <0.005 | <0.005      |             |
| 11/2/2020  |             |             |             |             |        |             | <0.005      |
| 3/17/2021  |             |             |             |             | <0.005 | <0.005      |             |
| 3/26/2021  | <0.005      |             | <0.005      | <0.005      |        |             | <0.005      |
| 10/5/2021  | <0.005      |             |             |             | <0.005 |             | <0.005      |
| 10/6/2021  |             |             | <0.005      | <0.005      |        | <0.005      |             |
| 3/16/2022  | <0.005      |             | <0.005      | <0.005      | <0.005 | <0.005      | <0.005      |
| 10/5/2022  | <0.005      |             |             | <0.005      | <0.005 |             |             |
| 10/6/2022  |             |             |             |             |        | <0.005      | <0.005      |
| 4/20/2023  | <0.005      |             | <0.005      | <0.005      |        |             |             |
| 4/21/2023  |             |             |             |             | <0.005 | <0.005      | <0.005      |
| 10/24/2023 | <0.005      |             | <0.005      |             |        |             | <0.005      |
| 10/25/2023 |             |             |             | <0.005      | <0.005 | <0.005      |             |

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 12/8/2023 8:47 AM  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3   | BAW-4   | BAW-5   | BAW-7   |
|------------|------------|------------|-------------|---------|---------|---------|---------|
| 3/23/2016  | <5         | <5         |             | <5      | 2.3 (J) | 4.5 (J) | <5      |
| 5/17/2016  | <5         |            |             |         | 2.3 (J) | 17      | <5      |
| 5/18/2016  |            | <5         |             | <5      |         |         |         |
| 7/12/2016  | <5         |            |             |         |         |         | <5      |
| 7/13/2016  |            | <5         |             | 1.5 (J) | 2.4 (J) | 15      |         |
| 9/13/2016  | <5         |            |             |         |         | 3.4 (J) | <5      |
| 9/14/2016  |            | <5         |             | 1.6 (J) | 2.4 (J) |         |         |
| 11/19/2016 | <5         | <5         |             | 1.8 (J) | 3.3 (J) | 3.5 (J) | 1.5 (J) |
| 1/17/2017  | <5         | <5         |             | <5      |         |         | <5      |
| 1/18/2017  |            |            |             |         | 2.3 (J) | 3.2 (J) |         |
| 3/22/2017  | <5         |            |             |         |         |         | 1.9 (J) |
| 3/23/2017  |            | 1.8 (J)    |             | 2.3 (J) | 3.2 (J) | 3.7 (J) |         |
| 5/24/2017  | <5         | 1.5 (J)    |             | 1.6 (J) | 2.4 (J) | 8.8     | <5      |
| 10/16/2017 | <5         | <5         |             | <5      | 2 (J)   | 4 (J)   | <5      |
| 3/28/2018  | <5         |            | 1.7 (J)     | 1.6 (J) | 2.4 (J) | 3.3 (J) |         |
| 3/29/2018  |            |            |             |         |         |         | <5      |
| 6/2/2018   | 1.9 (J)    |            | 3 (J)       | 2.9 (J) | 3.7 (J) | 4.3 (J) | 2.8 (J) |
| 11/8/2018  | <5         |            |             | 1.6 (J) | 2.7 (J) |         |         |
| 11/9/2018  |            |            | <5          |         |         | 2.3 (J) | <5      |
| 2/11/2019  | 0.774 (J)  |            |             |         | 2.5     | 2.64    |         |
| 2/12/2019  |            |            | 1.97        | 1.97    |         |         | 1.35    |
| 4/17/2019  | 1.43       |            | 2.82        | 2.5     | 3.15    | 3.27    |         |
| 4/18/2019  |            |            |             |         |         |         | 1.82    |
| 9/27/2019  | 1.03       |            | 2.19        |         |         |         | 1.22    |
| 9/30/2019  |            |            |             | 1.64    | 2.34    | 2.82    |         |
| 4/14/2020  | 0.928 (J)  |            | 2.71        | 1.62    | 2.99    | 4.2     | 1.18    |
| 10/30/2020 | 0.91 (J)   |            | 3.97        | 1.44    | 2.84    | 4.76    |         |
| 11/2/2020  |            |            |             |         |         |         | 1.08    |
| 3/17/2021  |            |            |             |         | 4.35    | 4.07    |         |
| 3/26/2021  | 1.49       |            | 2.04        | 3.25    |         |         | 2       |
| 10/5/2021  | 1.13       |            |             |         | 5.02    |         | 2.55    |
| 10/6/2021  |            |            | 5.37        | 5.07    |         | 14.5    |         |
| 3/16/2022  | 3.6        |            | 5.37        | 6.85    | 5.64    | 23.1    | 5.93    |
| 10/5/2022  | 1.34       |            |             | 6.07    | 4.12    |         |         |
| 10/6/2022  |            |            |             |         |         | 19.5    | 61.4    |
| 4/20/2023  | 2.6        |            | 7.32        | 8.2     |         |         |         |
| 4/21/2023  |            |            |             |         | 5       | 47.2    | 8.82    |
| 10/24/2023 | 1.8        |            | 7.68        |         |         |         | 2.11    |
| 10/25/2023 |            |            |             | 8.72    | 12.5    | 37.5    |         |



# Time Series

Constituent: Thallium (mg/L) Analysis Run 12/8/2023 8:47 AM

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg)  | BAW-3        | BAW-4  | BAW-5  | BAW-7        |
|------------|------------|------------|--------------|--------------|--------|--------|--------------|
| 3/23/2016  | <0.001     | <0.0005    |              | <0.001       | <0.001 | <0.001 | <0.001       |
| 5/17/2016  | <0.001     |            |              |              | <0.001 | <0.001 | <0.001       |
| 5/18/2016  |            | <0.0005    |              | <0.001       |        |        |              |
| 7/12/2016  | <0.001     |            |              |              |        |        | <0.001       |
| 7/13/2016  |            | <0.0005    |              | <0.001       | <0.001 | <0.001 |              |
| 9/13/2016  | <0.001     |            |              |              |        | <0.001 | <0.001       |
| 9/14/2016  |            | <0.0005    |              | 9.5E-05 (J)  | <0.001 |        |              |
| 11/19/2016 | <0.001     | <0.0005    |              | <0.001       | <0.001 | <0.001 | <0.001       |
| 1/17/2017  | <0.001     | <0.0005    |              | <0.001       |        |        | <0.001       |
| 1/18/2017  |            |            |              |              | <0.001 | <0.001 |              |
| 3/22/2017  | <0.001     |            |              |              |        |        | <0.001       |
| 3/23/2017  |            | <0.0005    |              | <0.001       | <0.001 | <0.001 |              |
| 5/24/2017  | <0.001     | <0.0005    |              | <0.001       | <0.001 | <0.001 | <0.001       |
| 3/28/2018  | <0.001     |            | <0.001       | <0.001       | <0.001 | <0.001 |              |
| 3/29/2018  |            |            |              |              |        |        | <0.001       |
| 11/8/2018  | <0.001     |            |              | 8.5E-05 (J)  | <0.001 |        |              |
| 11/9/2018  |            |            | <0.001       |              |        | <0.001 | <0.001       |
| 2/11/2019  | <0.001     |            |              |              | <0.001 | <0.001 |              |
| 2/12/2019  |            |            | <0.001       | <0.001       |        |        | <0.001       |
| 4/17/2019  | <0.001     |            | <0.001       | <0.001       | <0.001 | <0.001 |              |
| 4/18/2019  |            |            |              |              |        |        | <0.001       |
| 2/21/2020  | <0.001     |            | 0.000486 (J) | 0.000276 (J) |        |        | <0.001       |
| 2/22/2020  |            |            |              |              | <0.001 | <0.001 |              |
| 4/14/2020  | <0.001     |            | <0.001       | 0.000158 (J) | <0.001 | <0.001 | <0.001       |
| 10/30/2020 | <0.001     |            | <0.001       | <0.001       | <0.001 | <0.001 |              |
| 11/2/2020  |            |            |              |              |        |        | <0.001       |
| 3/17/2021  |            |            |              |              | <0.001 | <0.001 |              |
| 3/26/2021  | <0.001     |            | <0.001       | <0.001       |        |        | <0.001       |
| 10/5/2021  | <0.001     |            |              |              | <0.001 |        | 0.000153 (J) |
| 10/6/2021  |            |            | <0.001       | <0.001       |        | <0.001 |              |
| 3/16/2022  | <0.001     |            | <0.001       | <0.001       | <0.001 | <0.001 | <0.001       |
| 10/5/2022  | <0.001     |            |              | <0.001       | <0.001 |        |              |
| 10/6/2022  |            |            |              |              |        | <0.001 | <0.001       |
| 4/20/2023  | <0.001     |            | <0.001       | <0.001       |        |        |              |
| 4/21/2023  |            |            |              |              | <0.001 | <0.001 | <0.001       |
| 10/24/2023 | <0.001     |            | <0.001       |              |        |        | <0.001       |
| 10/25/2023 |            |            |              | <0.001       | <0.001 | <0.001 |              |

# Time Series

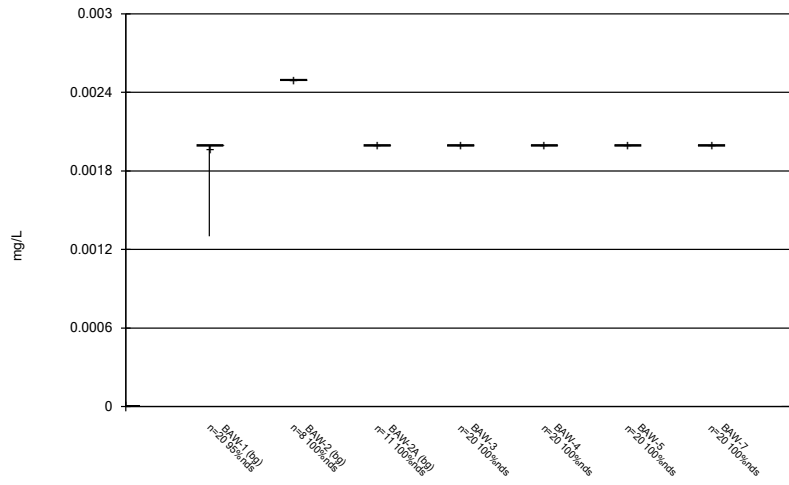
Constituent: Total Dissolved Solids (mg/L) Analysis Run 12/8/2023 8:47 AM

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|------------|------------|-------------|-------|-------|-------|-------|
| 3/23/2016  | 20         | 30         |             | 30    | 46    | 88    | 22    |
| 5/17/2016  | 24         |            |             |       | 52    | 110   | 30    |
| 5/18/2016  |            | 20         |             | 20    |       |       |       |
| 7/12/2016  | 24         |            |             |       |       |       | 26    |
| 7/13/2016  |            | 40         |             | 40    | 36    | 120   |       |
| 9/13/2016  | 18         |            |             |       |       | 92    | 28    |
| 9/14/2016  |            | 10         |             | <10   | 38    |       |       |
| 11/19/2016 | 20         | 28         |             | 22    | 50    | 94    | 38    |
| 1/17/2017  | <10        | 14         |             | 14    |       |       | 10    |
| 1/18/2017  |            |            |             |       | 18    | 68    |       |
| 3/22/2017  | 12         |            |             |       |       |       | 22    |
| 3/23/2017  |            | 16         |             | 28    | 32    | 80    |       |
| 5/24/2017  | 16 (D)     | 12         |             | 18    | 32    | 90    | 22    |
| 10/16/2017 | 58         | 50         |             | 36    | 64    | 110   | 34    |
| 3/28/2018  | 18         |            | 30          | 36    | 56    | 86    |       |
| 3/29/2018  |            |            |             |       |       |       | 50    |
| 6/2/2018   | 6          |            | 26          | 6     | 22    | 72    | <10   |
| 11/8/2018  | 12         |            |             | 34    | 170   |       |       |
| 11/9/2018  |            |            | 94          |       |       | 38    | 20    |
| 2/11/2019  | <10        |            |             |       | 23    | 60    |       |
| 2/12/2019  |            |            | 22          | 12    |       |       | <10   |
| 4/17/2019  | 16         |            | 22          | 27    | 37    | 82    |       |
| 4/18/2019  |            |            |             |       |       |       | 39    |
| 9/27/2019  | 26         |            | 25          |       |       |       | <10   |
| 9/30/2019  |            |            |             | <10   | <10   | 55    |       |
| 4/14/2020  | 25         |            | 38          | 31    | 30    | 77    | 24    |
| 10/30/2020 | 34         |            | 48          | 40    | 40    | 88    |       |
| 11/2/2020  |            |            |             |       |       |       | 28    |
| 3/17/2021  |            |            |             |       | 44    | 79    |       |
| 3/26/2021  | 24         |            | 24          | 37    |       |       | 38    |
| 10/5/2021  | 26         |            |             |       | 75    |       | 45    |
| 10/6/2021  |            |            | 61          | 30    |       | 114   |       |
| 3/16/2022  | 30         |            | 26          | 26    | 66    | 133   | 37    |
| 10/5/2022  | 30         |            |             | 32    | 52    |       |       |
| 10/6/2022  |            |            |             |       |       | 155   | 135   |
| 4/20/2023  | 26         |            | 30          | 31    |       |       |       |
| 4/21/2023  |            |            |             |       | 50    | 204   | 47    |
| 10/24/2023 | 28         |            | 35          |       |       |       | 42    |
| 10/25/2023 |            |            |             | 19    | 47    | 161   |       |

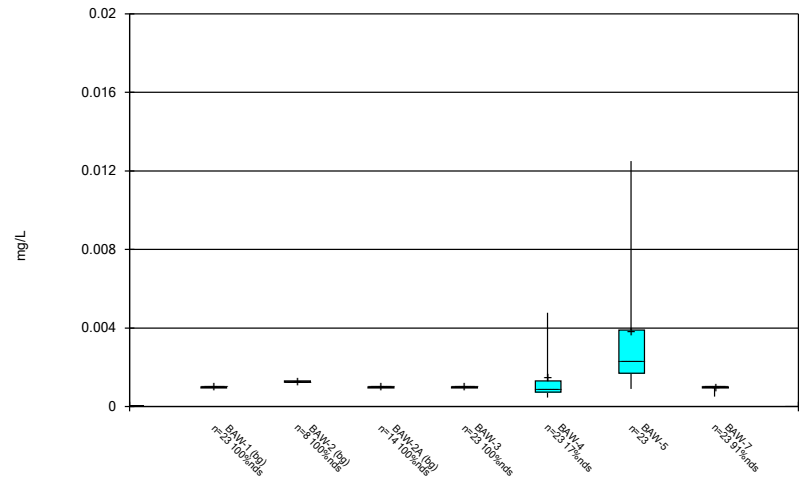
FIGURE B.

### Box & Whiskers Plot



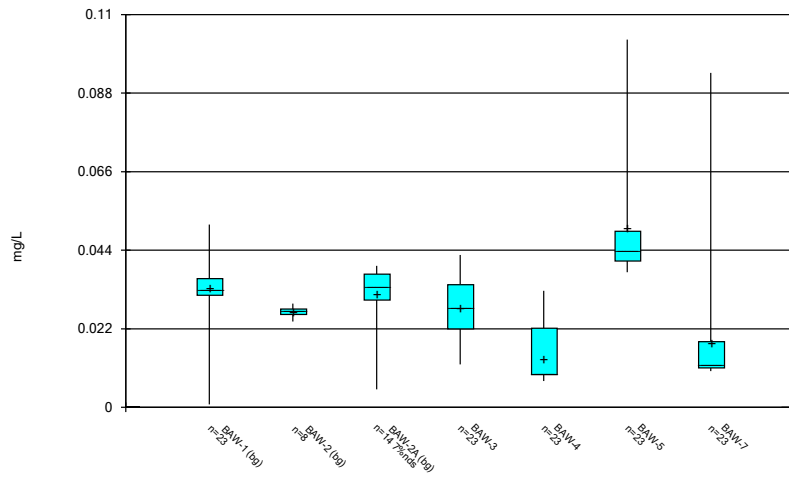
Constituent: Antimony Analysis Run 12/8/2023 8:48 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Box & Whiskers Plot



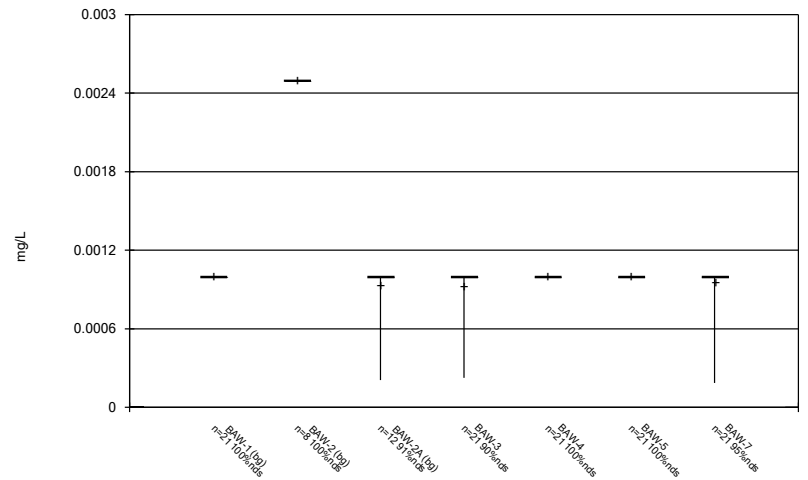
Constituent: Arsenic Analysis Run 12/8/2023 8:48 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Box & Whiskers Plot



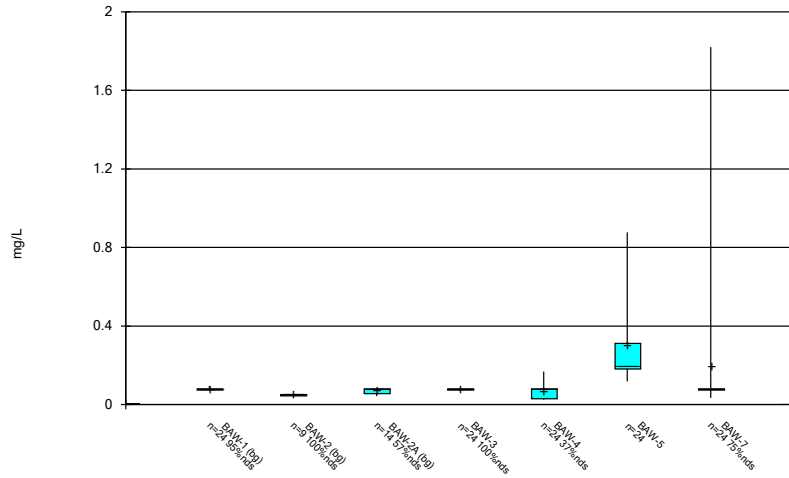
Constituent: Barium Analysis Run 12/8/2023 8:48 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Box & Whiskers Plot



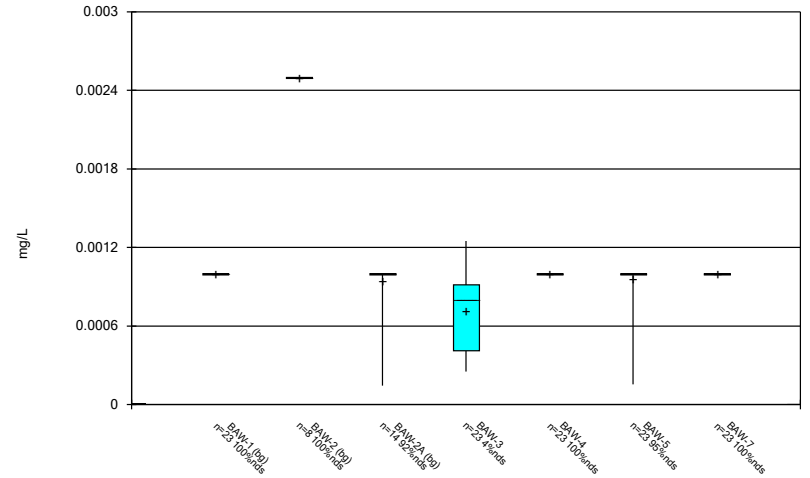
Constituent: Beryllium Analysis Run 12/8/2023 8:48 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Box & Whiskers Plot



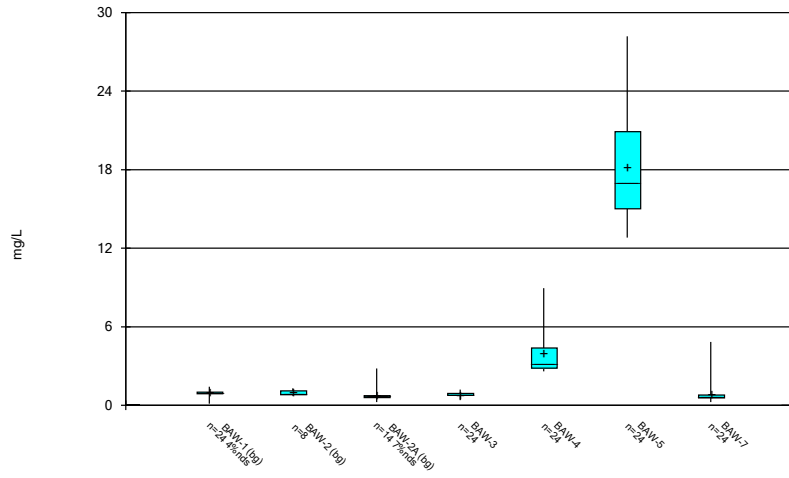
Constituent: Boron Analysis Run 12/8/2023 8:48 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Box & Whiskers Plot



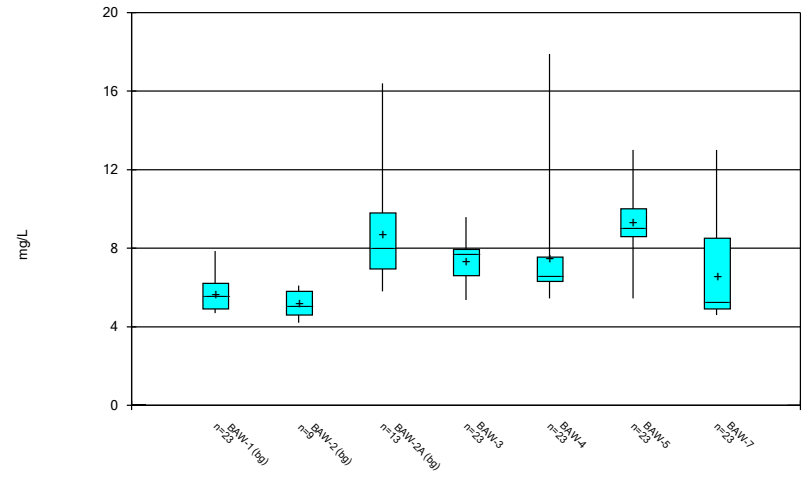
Constituent: Cadmium Analysis Run 12/8/2023 8:48 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Box & Whiskers Plot



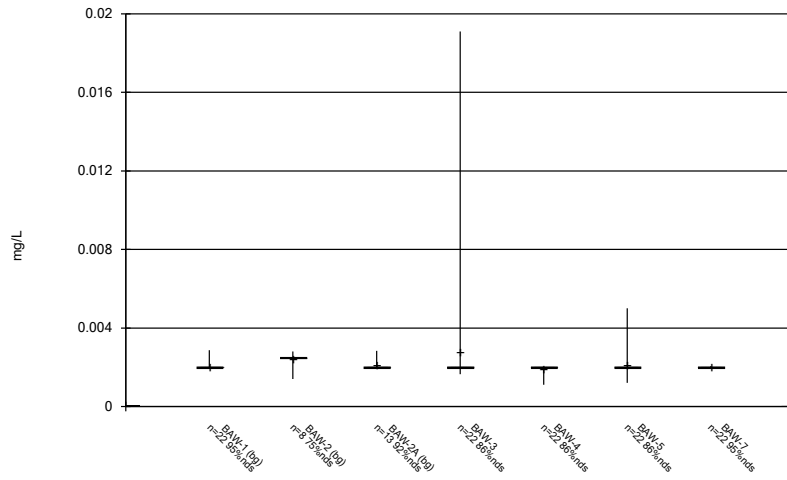
Constituent: Calcium Analysis Run 12/8/2023 8:48 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Box & Whiskers Plot



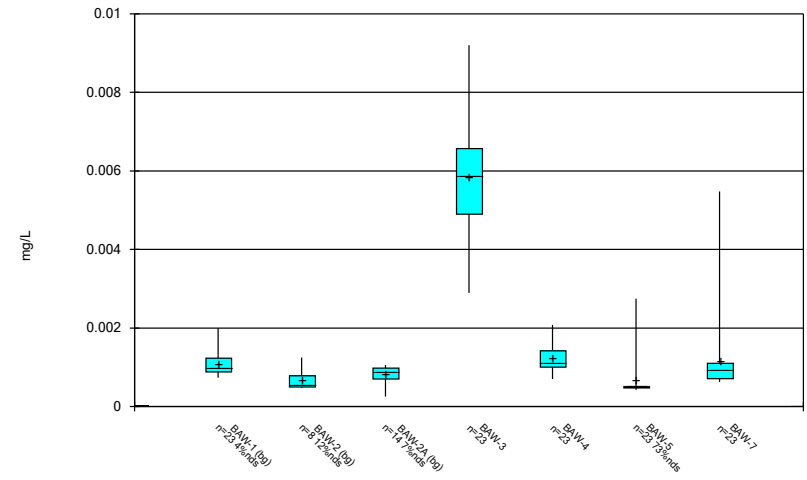
Constituent: Chloride Analysis Run 12/8/2023 8:48 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Box & Whiskers Plot



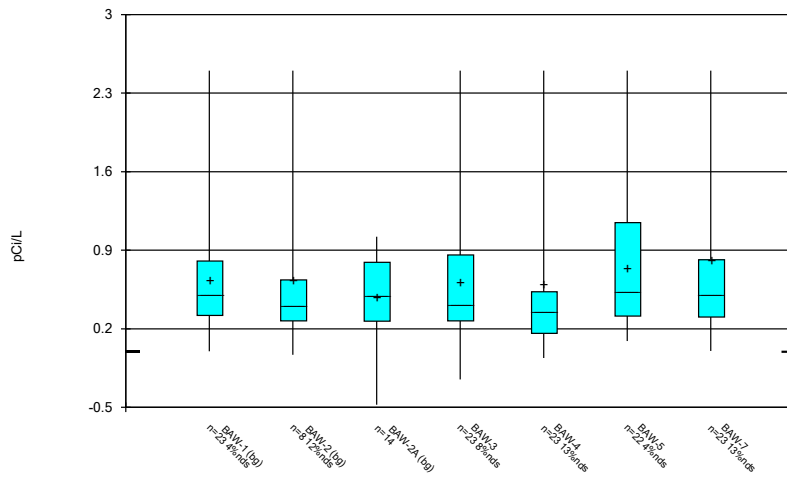
Constituent: Chromium Analysis Run 12/8/2023 8:48 AM  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Box & Whiskers Plot



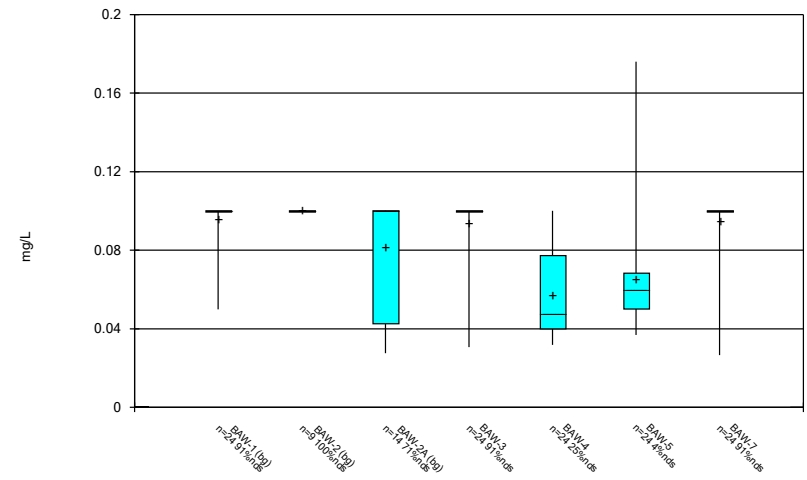
Constituent: Cobalt Analysis Run 12/8/2023 8:48 AM  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Box & Whiskers Plot



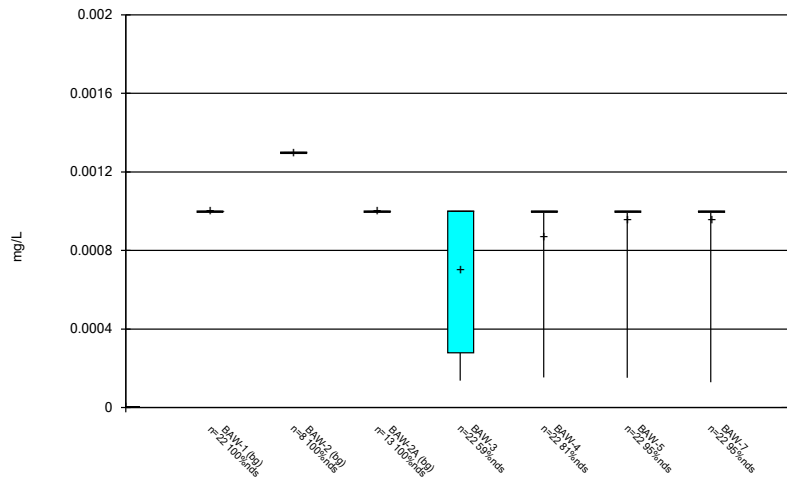
Constituent: Combined Radium 226 + 228 Analysis Run 12/8/2023 8:48 AM  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Box & Whiskers Plot



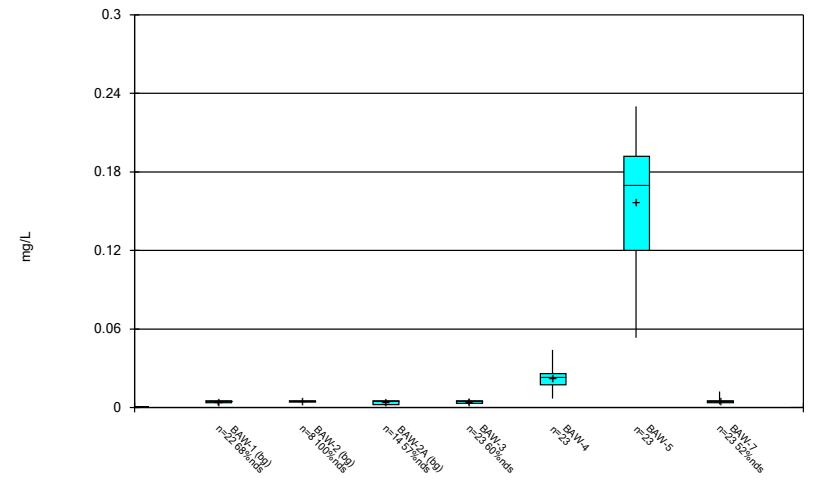
Constituent: Fluoride Analysis Run 12/8/2023 8:48 AM  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Box & Whiskers Plot



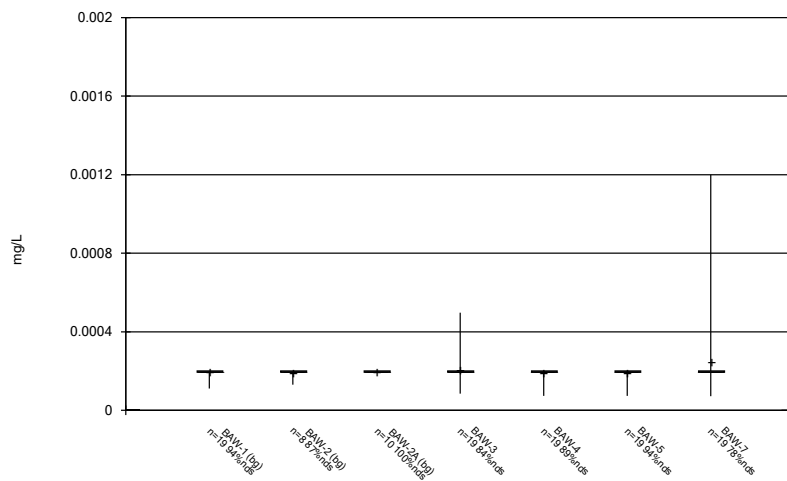
Constituent: Lead Analysis Run 12/8/2023 8:48 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Box & Whiskers Plot



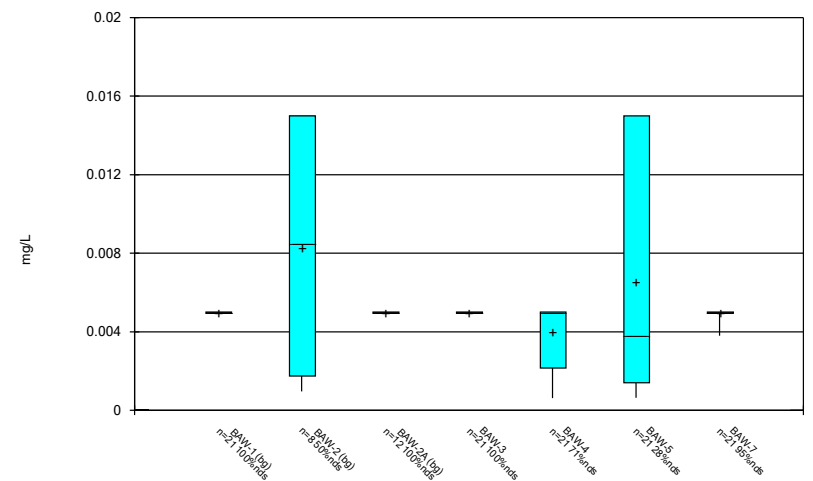
Constituent: Lithium Analysis Run 12/8/2023 8:48 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Box & Whiskers Plot



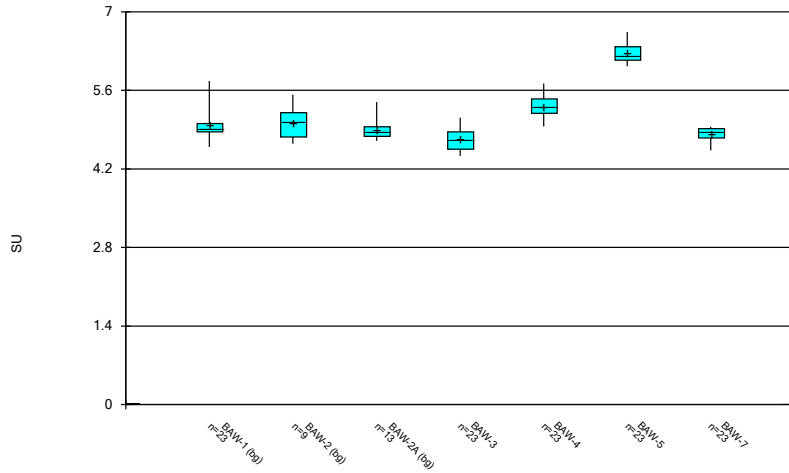
Constituent: Mercury Analysis Run 12/8/2023 8:48 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Box & Whiskers Plot



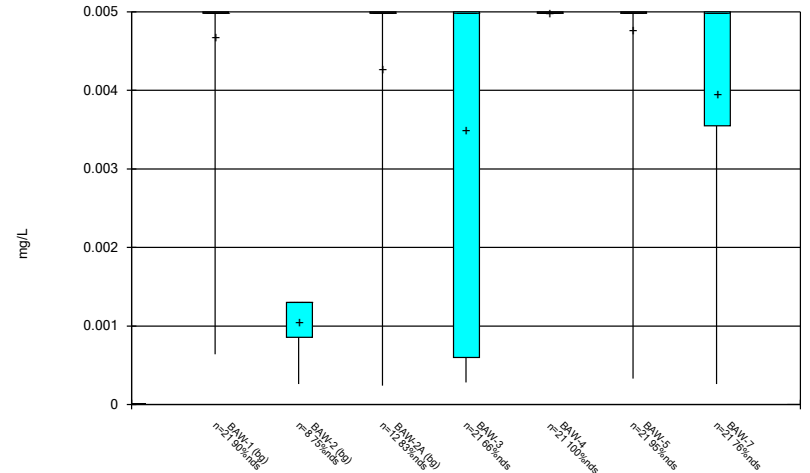
Constituent: Molybdenum Analysis Run 12/8/2023 8:48 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



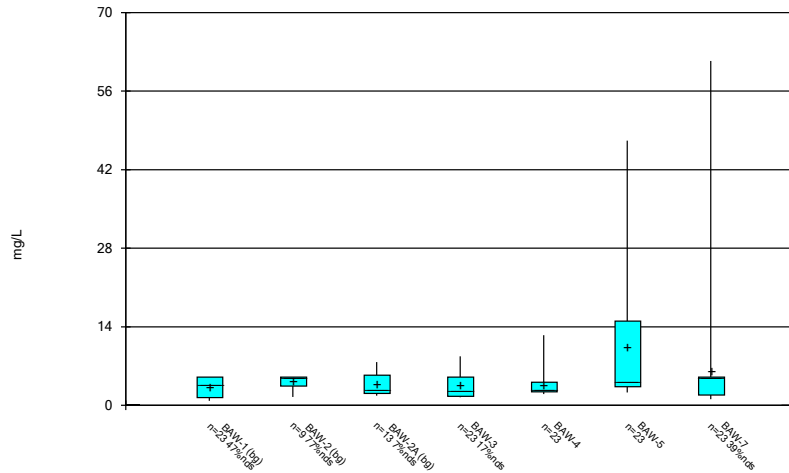
Constituent: pH Analysis Run 12/8/2023 8:48 AM  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



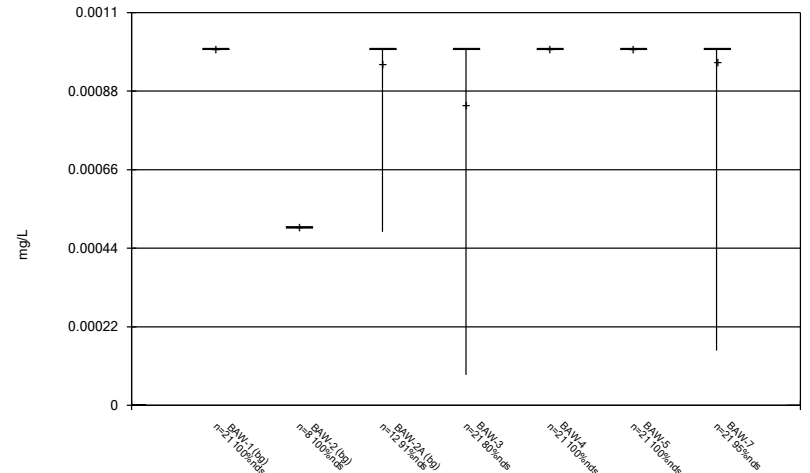
Constituent: Selenium Analysis Run 12/8/2023 8:48 AM  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



Constituent: Sulfate Analysis Run 12/8/2023 8:48 AM  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

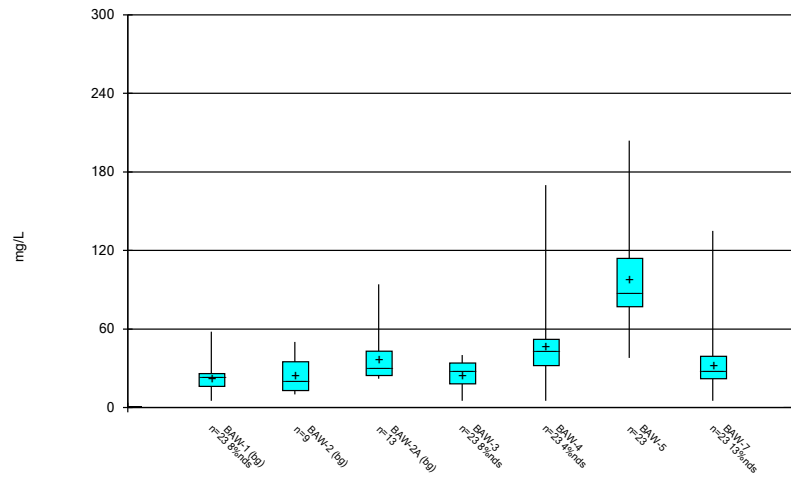
Box & Whiskers Plot



Constituent: Thallium Analysis Run 12/8/2023 8:48 AM  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR



### Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 12/8/2023 8:48 AM  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

FIGURE C.

# Outlier Summary

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 11/9/2023, 11:33 AM

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|           | BAW-2 Calcium (mg/L) | BAW-1 Lithium (mg/L) |
|-----------|----------------------|----------------------|
| 3/23/2016 | 2.6 (o)              |                      |
| 7/12/2016 |                      | 0.012 (o)            |

FIGURE D.

# Appendix III Interwell Prediction Limits - Significant Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 11/9/2023, 11:37 AM

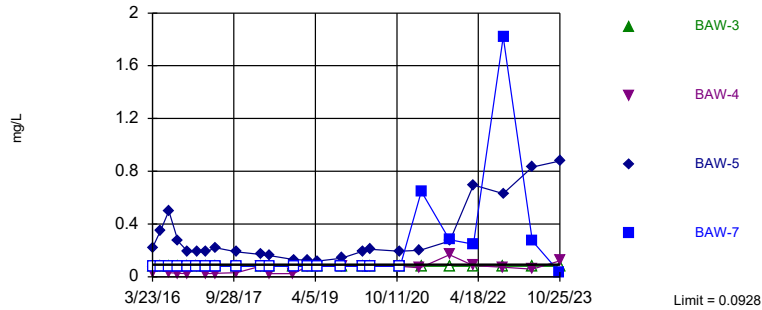
| Constituent                   | Well  | Upper Lim. | Lower Lim. | Date       | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs  | ND Adj. | Transform | Alpha     | Method                      |
|-------------------------------|-------|------------|------------|------------|---------|------|------|---------|-----------|-------|---------|-----------|-----------|-----------------------------|
| Boron (mg/L)                  | BAW-4 | 0.0928     | n/a        | 10/25/2023 | 0.122   | Yes  | 47   | n/a     | n/a       | 85.11 | n/a     | n/a       | 0.0008638 | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)                  | BAW-5 | 0.0928     | n/a        | 10/25/2023 | 0.877   | Yes  | 47   | n/a     | n/a       | 85.11 | n/a     | n/a       | 0.0008638 | NP Inter (NDs) 1 of 2       |
| Calcium (mg/L)                | BAW-4 | 1.653      | n/a        | 10/25/2023 | 5.35    | Yes  | 46   | 0.9519  | 0.1272    | 4.348 | None    | x^(1/3)   | 0.00188   | Param Inter 1 of 2          |
| Calcium (mg/L)                | BAW-5 | 1.653      | n/a        | 10/25/2023 | 25.9    | Yes  | 46   | 0.9519  | 0.1272    | 4.348 | None    | x^(1/3)   | 0.00188   | Param Inter 1 of 2          |
| pH (SU)                       | BAW-3 | 5.77       | 4.59       | 10/25/2023 | 4.43    | Yes  | 45   | n/a     | n/a       | 0     | n/a     | n/a       | 0.001886  | NP Inter (normality) 1 of 2 |
| pH (SU)                       | BAW-5 | 5.77       | 4.59       | 10/25/2023 | 6.11    | Yes  | 45   | n/a     | n/a       | 0     | n/a     | n/a       | 0.001886  | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L)                | BAW-3 | 7.68       | n/a        | 10/25/2023 | 8.72    | Yes  | 45   | n/a     | n/a       | 42.22 | n/a     | n/a       | 0.0009429 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L)                | BAW-4 | 7.68       | n/a        | 10/25/2023 | 12.5    | Yes  | 45   | n/a     | n/a       | 42.22 | n/a     | n/a       | 0.0009429 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L)                | BAW-5 | 7.68       | n/a        | 10/25/2023 | 37.5    | Yes  | 45   | n/a     | n/a       | 42.22 | n/a     | n/a       | 0.0009429 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | BAW-5 | 57.31      | n/a        | 10/25/2023 | 161     | Yes  | 45   | 4.976   | 1.429     | 4.444 | None    | sqrt(x)   | 0.00188   | Param Inter 1 of 2          |

# Appendix III Interwell Prediction Limits - All Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 11/9/2023, 11:37 AM

| Constituent                          | Well         | Upper Lim.    | Lower Lim.  | Date              | Observ.      | Sig.       | Bg N      | Bg Mean       | Std. Dev.     | %NDs         | ND Adj.     | Transform      | Alpha            | Method                             |
|--------------------------------------|--------------|---------------|-------------|-------------------|--------------|------------|-----------|---------------|---------------|--------------|-------------|----------------|------------------|------------------------------------|
| Boron (mg/L)                         | BAW-3        | 0.0928        | n/a         | 10/25/2023        | 0.08ND       | No         | 47        | n/a           | n/a           | 85.11        | n/a         | n/a            | 0.0008638        | NP Inter (NDs) 1 of 2              |
| <b>Boron (mg/L)</b>                  | <b>BAW-4</b> | <b>0.0928</b> | <b>n/a</b>  | <b>10/25/2023</b> | <b>0.122</b> | <b>Yes</b> | <b>47</b> | <b>n/a</b>    | <b>n/a</b>    | <b>85.11</b> | <b>n/a</b>  | <b>n/a</b>     | <b>0.0008638</b> | <b>NP Inter (NDs) 1 of 2</b>       |
| <b>Boron (mg/L)</b>                  | <b>BAW-5</b> | <b>0.0928</b> | <b>n/a</b>  | <b>10/25/2023</b> | <b>0.877</b> | <b>Yes</b> | <b>47</b> | <b>n/a</b>    | <b>n/a</b>    | <b>85.11</b> | <b>n/a</b>  | <b>n/a</b>     | <b>0.0008638</b> | <b>NP Inter (NDs) 1 of 2</b>       |
| Boron (mg/L)                         | BAW-7        | 0.0928        | n/a         | 10/24/2023        | 0.0336J      | No         | 47        | n/a           | n/a           | 85.11        | n/a         | n/a            | 0.0008638        | NP Inter (NDs) 1 of 2              |
| Calcium (mg/L)                       | BAW-3        | 1.653         | n/a         | 10/25/2023        | 0.875        | No         | 46        | 0.9519        | 0.1272        | 4.348        | None        | x^(1/3)        | 0.00188          | Param Inter 1 of 2                 |
| <b>Calcium (mg/L)</b>                | <b>BAW-4</b> | <b>1.653</b>  | <b>n/a</b>  | <b>10/25/2023</b> | <b>5.35</b>  | <b>Yes</b> | <b>46</b> | <b>0.9519</b> | <b>0.1272</b> | <b>4.348</b> | <b>None</b> | <b>x^(1/3)</b> | <b>0.00188</b>   | <b>Param Inter 1 of 2</b>          |
| <b>Calcium (mg/L)</b>                | <b>BAW-5</b> | <b>1.653</b>  | <b>n/a</b>  | <b>10/25/2023</b> | <b>25.9</b>  | <b>Yes</b> | <b>46</b> | <b>0.9519</b> | <b>0.1272</b> | <b>4.348</b> | <b>None</b> | <b>x^(1/3)</b> | <b>0.00188</b>   | <b>Param Inter 1 of 2</b>          |
| Calcium (mg/L)                       | BAW-7        | 1.653         | n/a         | 10/24/2023        | 1.3          | No         | 46        | 0.9519        | 0.1272        | 4.348        | None        | x^(1/3)        | 0.00188          | Param Inter 1 of 2                 |
| Chloride (mg/L)                      | BAW-3        | 16.4          | n/a         | 10/25/2023        | 5.5          | No         | 45        | n/a           | n/a           | 0            | n/a         | n/a            | 0.0009429        | NP Inter (normality) 1 of 2        |
| Chloride (mg/L)                      | BAW-4        | 16.4          | n/a         | 10/25/2023        | 7.6          | No         | 45        | n/a           | n/a           | 0            | n/a         | n/a            | 0.0009429        | NP Inter (normality) 1 of 2        |
| Chloride (mg/L)                      | BAW-5        | 16.4          | n/a         | 10/25/2023        | 11.3         | No         | 45        | n/a           | n/a           | 0            | n/a         | n/a            | 0.0009429        | NP Inter (normality) 1 of 2        |
| Chloride (mg/L)                      | BAW-7        | 16.4          | n/a         | 10/24/2023        | 8.57         | No         | 45        | n/a           | n/a           | 0            | n/a         | n/a            | 0.0009429        | NP Inter (normality) 1 of 2        |
| Fluoride (mg/L)                      | BAW-3        | 0.1           | n/a         | 10/25/2023        | 0.1ND        | No         | 47        | n/a           | n/a           | 87.23        | n/a         | n/a            | 0.0008638        | NP Inter (NDs) 1 of 2              |
| Fluoride (mg/L)                      | BAW-4        | 0.1           | n/a         | 10/25/2023        | 0.0393J      | No         | 47        | n/a           | n/a           | 87.23        | n/a         | n/a            | 0.0008638        | NP Inter (NDs) 1 of 2              |
| Fluoride (mg/L)                      | BAW-5        | 0.1           | n/a         | 10/25/2023        | 0.0858J      | No         | 47        | n/a           | n/a           | 87.23        | n/a         | n/a            | 0.0008638        | NP Inter (NDs) 1 of 2              |
| Fluoride (mg/L)                      | BAW-7        | 0.1           | n/a         | 10/24/2023        | 0.1ND        | No         | 47        | n/a           | n/a           | 87.23        | n/a         | n/a            | 0.0008638        | NP Inter (NDs) 1 of 2              |
| <b>pH (SU)</b>                       | <b>BAW-3</b> | <b>5.77</b>   | <b>4.59</b> | <b>10/25/2023</b> | <b>4.43</b>  | <b>Yes</b> | <b>45</b> | <b>n/a</b>    | <b>n/a</b>    | <b>0</b>     | <b>n/a</b>  | <b>n/a</b>     | <b>0.001886</b>  | <b>NP Inter (normality) 1 of 2</b> |
| pH (SU)                              | BAW-4        | 5.77          | 4.59        | 10/25/2023        | 5.42         | No         | 45        | n/a           | n/a           | 0            | n/a         | n/a            | 0.001886         | NP Inter (normality) 1 of 2        |
| <b>pH (SU)</b>                       | <b>BAW-5</b> | <b>5.77</b>   | <b>4.59</b> | <b>10/25/2023</b> | <b>6.11</b>  | <b>Yes</b> | <b>45</b> | <b>n/a</b>    | <b>n/a</b>    | <b>0</b>     | <b>n/a</b>  | <b>n/a</b>     | <b>0.001886</b>  | <b>NP Inter (normality) 1 of 2</b> |
| pH (SU)                              | BAW-7        | 5.77          | 4.59        | 10/24/2023        | 4.91         | No         | 45        | n/a           | n/a           | 0            | n/a         | n/a            | 0.001886         | NP Inter (normality) 1 of 2        |
| <b>Sulfate (mg/L)</b>                | <b>BAW-3</b> | <b>7.68</b>   | <b>n/a</b>  | <b>10/25/2023</b> | <b>8.72</b>  | <b>Yes</b> | <b>45</b> | <b>n/a</b>    | <b>n/a</b>    | <b>42.22</b> | <b>n/a</b>  | <b>n/a</b>     | <b>0.0009429</b> | <b>NP Inter (normality) 1 of 2</b> |
| <b>Sulfate (mg/L)</b>                | <b>BAW-4</b> | <b>7.68</b>   | <b>n/a</b>  | <b>10/25/2023</b> | <b>12.5</b>  | <b>Yes</b> | <b>45</b> | <b>n/a</b>    | <b>n/a</b>    | <b>42.22</b> | <b>n/a</b>  | <b>n/a</b>     | <b>0.0009429</b> | <b>NP Inter (normality) 1 of 2</b> |
| <b>Sulfate (mg/L)</b>                | <b>BAW-5</b> | <b>7.68</b>   | <b>n/a</b>  | <b>10/25/2023</b> | <b>37.5</b>  | <b>Yes</b> | <b>45</b> | <b>n/a</b>    | <b>n/a</b>    | <b>42.22</b> | <b>n/a</b>  | <b>n/a</b>     | <b>0.0009429</b> | <b>NP Inter (normality) 1 of 2</b> |
| Sulfate (mg/L)                       | BAW-7        | 7.68          | n/a         | 10/24/2023        | 2.11         | No         | 45        | n/a           | n/a           | 42.22        | n/a         | n/a            | 0.0009429        | NP Inter (normality) 1 of 2        |
| Total Dissolved Solids (mg/L)        | BAW-3        | 57.31         | n/a         | 10/25/2023        | 19           | No         | 45        | 4.976         | 1.429         | 4.444        | None        | sqrt(x)        | 0.00188          | Param Inter 1 of 2                 |
| Total Dissolved Solids (mg/L)        | BAW-4        | 57.31         | n/a         | 10/25/2023        | 47           | No         | 45        | 4.976         | 1.429         | 4.444        | None        | sqrt(x)        | 0.00188          | Param Inter 1 of 2                 |
| <b>Total Dissolved Solids (mg/L)</b> | <b>BAW-5</b> | <b>57.31</b>  | <b>n/a</b>  | <b>10/25/2023</b> | <b>161</b>   | <b>Yes</b> | <b>45</b> | <b>4.976</b>  | <b>1.429</b>  | <b>4.444</b> | <b>None</b> | <b>sqrt(x)</b> | <b>0.00188</b>   | <b>Param Inter 1 of 2</b>          |
| Total Dissolved Solids (mg/L)        | BAW-7        | 57.31         | n/a         | 10/24/2023        | 42           | No         | 45        | 4.976         | 1.429         | 4.444        | None        | sqrt(x)        | 0.00188          | Param Inter 1 of 2                 |

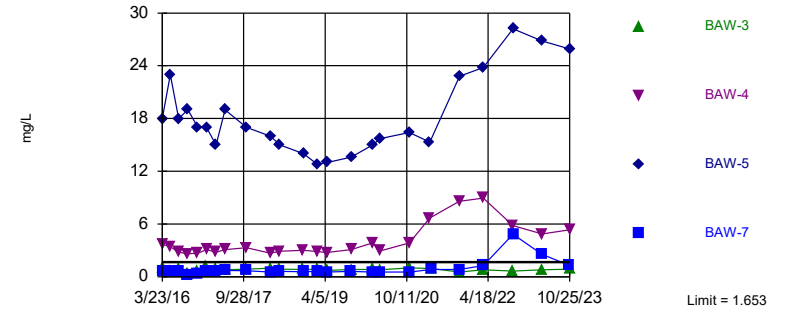
Prediction Limit  
 Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 47 background values. 85.11% NDs. Annual per-constituent alpha = 0.00689. Individual comparison alpha = 0.0008638 (1 of 2). Comparing 4 points to limit.

Constituent: Boron Analysis Run 11/9/2023 11:36 AM View: Interwell  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Prediction Limit  
 Interwell Parametric

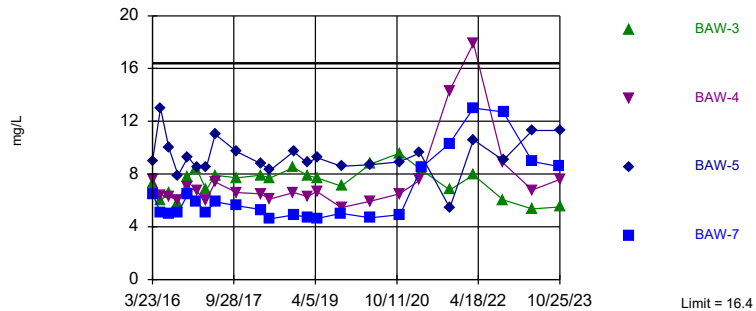


Background Data Summary (based on cube root transformation): Mean=0.9519, Std. Dev.=0.1272, n=46, 4.348% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9318, critical = 0.927. Kappa = 1.813 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.00188. Comparing 4 points to limit.

Constituent: Calcium Analysis Run 11/9/2023 11:36 AM View: Interwell  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Within Limit

Prediction Limit  
 Interwell Non-parametric

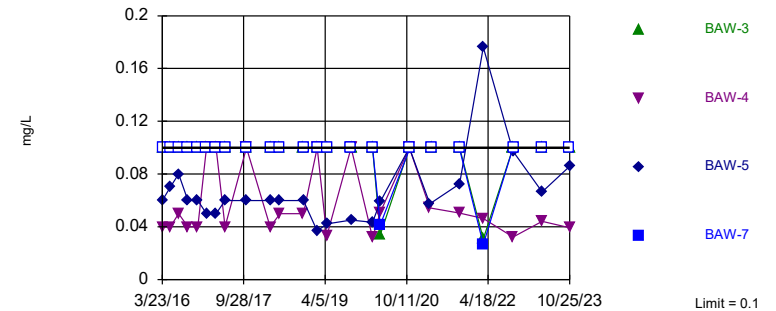


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 45 background values. Annual per-constituent alpha = 0.007519. Individual comparison alpha = 0.0009429 (1 of 2). Comparing 4 points to limit.

Constituent: Chloride Analysis Run 11/9/2023 11:36 AM View: Interwell  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Within Limit

Prediction Limit  
 Interwell Non-parametric

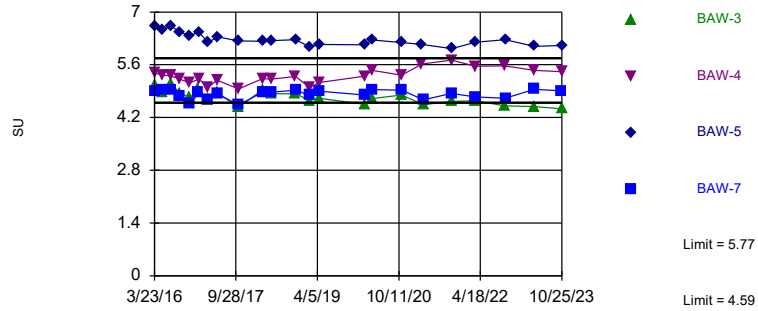


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 47 background values. 87.23% NDs. Annual per-constituent alpha = 0.00689. Individual comparison alpha = 0.0008638 (1 of 2). Comparing 4 points to limit.

Constituent: Fluoride Analysis Run 11/9/2023 11:36 AM View: Interwell  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Exceeds Limits: BAW-3, BAW-5

Prediction Limit  
Interwell Non-parametric



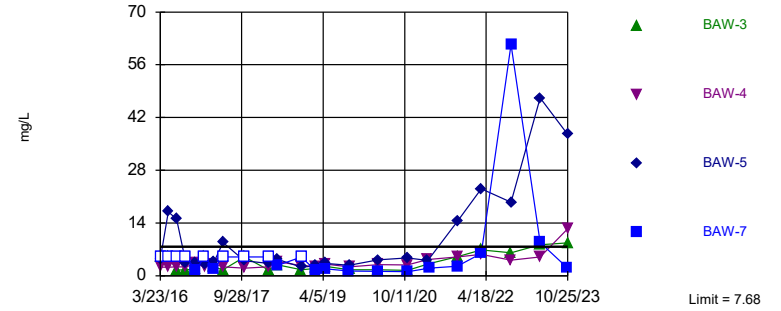
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 45 background values. Annual per-constituent alpha = 0.01504. Individual comparison alpha = 0.001886 (1 of 2). Comparing 4 points to limit.

Constituent: pH Analysis Run 11/9/2023 11:36 AM View: Interwell  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Hollow symbols indicate censored values.

Exceeds Limit: BAW-3, BAW-4, BAW-5

Prediction Limit  
Interwell Non-parametric

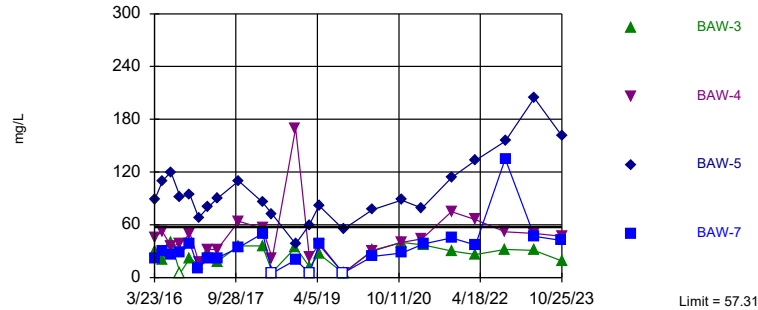


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 45 background values. 42.22% NDs. Annual per-constituent alpha = 0.007519. Individual comparison alpha = 0.0009429 (1 of 2). Comparing 4 points to limit.

Constituent: Sulfate Analysis Run 11/9/2023 11:36 AM View: Interwell  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Exceeds Limit: BAW-5

Prediction Limit  
Interwell Parametric



Background Data Summary (based on square root transformation): Mean=4.976, Std. Dev.=1.429, n=45, 4.444% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9484, critical = 0.926. Kappa = 1.816 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.00188. Comparing 4 points to limit.

Constituent: Total Dissolved Solids Analysis Run 11/9/2023 11:36 AM View: Interwell  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR



# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/9/2023 11:37 AM View: Interwell

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-7      | BAW-5 | BAW-3 | BAW-2 (bg) | BAW-4      | BAW-2A (bg) |
|------------|------------|------------|-------|-------|------------|------------|-------------|
| 3/23/2016  | <0.08      | <0.08      | 0.22  | <0.08 | <0.08      | 0.037 (J)  |             |
| 5/17/2016  | <0.08      | <0.08      | 0.35  |       |            | <0.08      |             |
| 5/18/2016  |            |            |       | <0.08 | <0.08      |            |             |
| 7/12/2016  | <0.08      | <0.08      |       |       |            |            |             |
| 7/13/2016  |            |            | 0.5   | <0.08 | <0.08      | 0.032 (J)  |             |
| 9/13/2016  | <0.08      | <0.08      | 0.27  |       |            |            |             |
| 9/14/2016  |            |            |       | <0.08 | <0.08      | 0.027 (J)  |             |
| 11/19/2016 | <0.08      | <0.08      | 0.19  | <0.08 | <0.08      | 0.024 (J)  |             |
| 1/17/2017  | <0.08      | <0.08      |       | <0.08 | <0.08      |            |             |
| 1/18/2017  |            |            | 0.19  |       |            | <0.08      |             |
| 3/22/2017  | <0.08      | <0.08      |       |       |            |            |             |
| 3/23/2017  |            |            | 0.19  | <0.08 | <0.08      | 0.024 (J)  |             |
| 5/24/2017  | <0.08      | <0.08      | 0.22  | <0.08 | <0.08      | 0.027 (J)  |             |
| 10/16/2017 | <0.08      | <0.08      | 0.19  | <0.08 | <0.08      | 0.03 (J)   |             |
| 3/28/2018  | <0.08      |            | 0.17  | <0.08 |            | <0.08      | <0.08       |
| 3/29/2018  |            | <0.08      |       |       |            |            |             |
| 6/2/2018   | <0.08      | <0.08      | 0.16  | <0.08 |            | 0.025 (J)  | <0.08       |
| 11/8/2018  | <0.08      |            |       | <0.08 |            | 0.024 (J)  |             |
| 11/9/2018  |            | <0.08      | 0.13  |       |            |            | <0.08       |
| 2/11/2019  | <0.08      |            | 0.126 |       |            | <0.08      |             |
| 2/12/2019  |            | <0.08      |       | <0.08 |            |            | <0.08       |
| 4/17/2019  | <0.08      |            | 0.118 | <0.08 |            | <0.08      | <0.08       |
| 4/18/2019  |            | <0.08      |       |       |            |            |             |
| 9/27/2019  | <0.08      | <0.08      |       |       |            |            | <0.08       |
| 9/30/2019  |            |            | 0.14  | <0.08 |            | <0.08      |             |
| 2/21/2020  | 0.0928     | <0.08      |       | <0.08 |            |            | 0.0589 (J)  |
| 2/22/2020  |            |            | 0.193 |       |            | <0.08      |             |
| 4/14/2020  | <0.08      | <0.08      | 0.209 | <0.08 |            | <0.08      | 0.0424 (J)  |
| 10/30/2020 | <0.08      |            | 0.194 | <0.08 |            | <0.08      | 0.0495 (J)  |
| 11/2/2020  |            | <0.08      |       |       |            |            |             |
| 3/17/2021  |            |            | 0.2   |       |            | 0.0673 (J) |             |
| 3/26/2021  | <0.08      | 0.647      |       | <0.08 |            |            | <0.08       |
| 10/5/2021  | <0.08      | 0.281      |       |       |            | 0.168      |             |
| 10/6/2021  |            |            | 0.272 | <0.08 |            |            | <0.08       |
| 3/16/2022  | <0.08      | 0.247      | 0.695 | <0.08 |            | 0.084      | 0.0717 (J)  |
| 10/5/2022  | <0.08      |            |       | <0.08 |            | 0.0714 (J) |             |
| 10/6/2022  |            | 1.82       | 0.631 |       |            |            |             |
| 4/20/2023  | <0.08      |            |       | <0.08 |            |            | 0.0711 (J)  |
| 4/21/2023  |            | 0.271      | 0.831 |       |            | 0.058 (J)  |             |
| 10/24/2023 | <0.08      | 0.0336 (J) |       |       |            |            | 0.0502 (J)  |
| 10/25/2023 |            |            | 0.877 | <0.08 |            | 0.122      |             |

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/9/2023 11:37 AM View: Interwell

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-7 | BAW-5 | BAW-3 | BAW-4 | BAW-2 (bg) | BAW-2A (bg) |
|------------|------------|-------|-------|-------|-------|------------|-------------|
| 3/23/2016  | <0.5       | 0.65  | 18    | 1.1   | 3.7   | 2.6 (o)    |             |
| 5/17/2016  | 0.84       | 0.68  | 23    |       | 3.4   |            |             |
| 5/18/2016  |            |       |       | 0.56  |       | 1.3        |             |
| 7/12/2016  | 0.79       | 0.62  |       |       |       |            |             |
| 7/13/2016  |            |       | 18    | 0.95  | 2.8   | 1.1        |             |
| 9/13/2016  | 0.42       | 0.25  | 19    |       |       |            |             |
| 9/14/2016  |            |       |       | 0.4   | 2.6   | 1.1        |             |
| 11/19/2016 | 1.2        | 0.36  | 17    | 0.62  | 2.7   | 1          |             |
| 1/17/2017  | 1.4        | 0.66  |       | 1.2   |       | 0.87       |             |
| 1/18/2017  |            |       | 17    |       | 3.1   |            |             |
| 3/22/2017  | 0.95       | 0.65  |       |       |       |            |             |
| 3/23/2017  |            |       | 15    | 0.87  | 2.8   | 0.74       |             |
| 5/24/2017  | 1.3        | 0.72  | 19    | 0.81  | 3.1   | 0.84       |             |
| 10/16/2017 | 0.93       | 0.7   | 17    | 0.86  | 3.3   | 0.76       |             |
| 3/28/2018  | 1          |       | 16    | 0.97  | 2.7   |            | 2.8         |
| 3/29/2018  |            | 0.55  |       |       |       |            |             |
| 6/2/2018   | 0.93       | 0.6   | 15    | 0.86  | 2.9   |            | 0.71        |
| 11/8/2018  | 1          |       |       | 0.84  | 3     |            |             |
| 11/9/2018  |            | 0.59  | 14    |       |       |            | 0.61        |
| 2/11/2019  | 1          |       | 12.8  |       | 2.88  |            |             |
| 2/12/2019  |            | 0.608 |       | 0.856 |       |            | 0.757       |
| 4/17/2019  | 0.893      |       | 13    | 0.711 | 2.77  |            | 0.755       |
| 4/18/2019  |            | 0.55  |       |       |       |            |             |
| 9/27/2019  | 0.8        | 0.598 |       |       |       |            | 0.663       |
| 9/30/2019  |            |       | 13.6  | 0.826 | 3.08  |            |             |
| 2/21/2020  | 1.02       | 0.552 |       | 0.841 |       |            | 0.648       |
| 2/22/2020  |            |       | 15    |       | 3.86  |            |             |
| 4/14/2020  | 0.887      | 0.532 | 15.7  | 0.811 | 2.95  |            | 0.67        |
| 10/30/2020 | 0.945      |       | 16.4  | 1     | 3.84  |            | 0.672       |
| 11/2/2020  |            | 0.535 |       |       |       |            |             |
| 3/17/2021  |            |       | 15.3  |       | 6.69  |            |             |
| 3/26/2021  | 0.965      | 0.848 |       | 0.937 |       |            | 0.644       |
| 10/5/2021  | 0.996      | 0.829 |       |       | 8.57  |            |             |
| 10/6/2021  |            |       | 22.8  | 0.532 |       |            | <0.5        |
| 3/16/2022  | 1.32       | 1.28  | 23.8  | 0.78  | 8.94  |            | 0.539       |
| 10/5/2022  | 1.42       |       |       | 0.647 | 5.81  |            |             |
| 10/6/2022  |            | 4.84  | 28.2  |       |       |            |             |
| 4/20/2023  | 0.996      |       |       | 0.789 |       |            | 0.685       |
| 4/21/2023  |            | 2.56  | 26.8  |       | 4.87  |            |             |
| 10/24/2023 | 0.918      | 1.3   |       |       |       |            | 0.498 (J)   |
| 10/25/2023 |            |       | 25.9  | 0.875 | 5.35  |            |             |

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/9/2023 11:37 AM View: Interwell

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-7 | BAW-5 | BAW-3 | BAW-2 (bg) | BAW-4 | BAW-2A (bg) |
|------------|------------|-------|-------|-------|------------|-------|-------------|
| 3/23/2016  | 6.5        | 6.5   | 9     | 7.3   | 5.1        | 7.6   |             |
| 5/17/2016  | 4.9        | 5.1   | 13    |       |            | 6.4   |             |
| 5/18/2016  |            |       |       | 6     | 4.2        |       |             |
| 7/12/2016  | 5.3        | 5     |       |       |            |       |             |
| 7/13/2016  |            |       | 10    | 6.6   | 4.7        | 6.3   |             |
| 9/13/2016  | 4.8 (F1)   | 5.1   | 7.9   |       |            |       |             |
| 9/14/2016  |            |       |       | 5.8   | 4.5        | 6     |             |
| 11/19/2016 | 7.1        | 6.5   | 9.3   | 7.8   | 6.1        | 7     |             |
| 1/17/2017  | 5.8        | 5.9   |       | 8.4   | 5.4        |       |             |
| 1/18/2017  |            |       | 8.5   |       |            | 6.7   |             |
| 3/22/2017  | 4.9        | 5.1   |       |       |            |       |             |
| 3/23/2017  |            |       | 8.5   | 6.8   | 5.1        | 6     |             |
| 5/24/2017  | 5.9        | 5.9   | 11    | 7.9   | 5.5        | 7.4   |             |
| 10/16/2017 | 5.7        | 5.6   | 9.7   | 7.7   | 6.1        | 6.6   |             |
| 3/28/2018  | 5.7        |       | 8.8   | 7.9   |            | 6.5   | 6.7         |
| 3/29/2018  |            | 5.3   |       |       |            |       |             |
| 6/2/2018   | 4.7        | 4.6   | 8.3   | 7.7   |            | 6.1   | 5.8         |
| 11/8/2018  | 5.6        |       |       | 8.5   |            | 6.6   |             |
| 11/9/2018  |            | 4.9   | 9.7   |       |            |       | 7.2         |
| 2/11/2019  | 4.84       |       | 8.84  |       |            | 6.31  |             |
| 2/12/2019  |            | 4.72  |       | 7.89  |            |       | 8.4         |
| 4/17/2019  | 4.99       |       | 9.24  | 7.71  |            | 6.68  | 8.03        |
| 4/18/2019  |            | 4.64  |       |       |            |       |             |
| 9/27/2019  | 5.08       | 5.02  |       |       |            |       | 8.37        |
| 9/30/2019  |            |       | 8.59  | 7.07  |            | 5.45  |             |
| 4/14/2020  | 4.91       | 4.68  | 8.71  | 8.75  |            | 5.93  | 7.57        |
| 10/30/2020 | 5.55       |       | 8.93  | 9.58  |            | 6.49  | 7.59        |
| 11/2/2020  |            | 4.91  |       |       |            |       |             |
| 3/17/2021  |            |       | 9.6   |       |            | 7.55  |             |
| 3/26/2021  | 5.92       | 8.5   |       | 8.32  |            |       | 6.21        |
| 10/5/2021  | 6.21       | 10.3  |       |       |            | 14.3  |             |
| 10/6/2021  |            |       | 5.44  | 6.8   |            |       | 16.4        |
| 3/16/2022  | 7.85       | 13    | 10.6  | 7.94  |            | 17.9  | 11.5        |
| 10/5/2022  | 6.75       |       |       | 6.04  |            | 8.84  |             |
| 10/6/2022  |            | 12.7  | 9.04  |       |            |       |             |
| 4/20/2023  | 5.22       |       |       | 5.36  |            |       | 9.6         |
| 4/21/2023  |            | 8.95  | 11.3  |       |            | 6.78  |             |
| 10/24/2023 | 6.29       | 8.57  |       |       |            |       | 10          |
| 10/25/2023 |            |       | 11.3  | 5.5   |            | 7.6   |             |

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/9/2023 11:37 AM View: Interwell

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-7      | BAW-5      | BAW-3      | BAW-2 (bg) | BAW-4      | BAW-2A (bg) |
|------------|------------|------------|------------|------------|------------|------------|-------------|
| 3/23/2016  | <0.1       | <0.1       | 0.06 (J)   | <0.1       | <0.1       | 0.04 (J)   |             |
| 5/17/2016  | <0.1       | <0.1       | 0.07 (J)   |            |            | 0.04 (J)   |             |
| 5/18/2016  |            |            |            | <0.1       | <0.1       |            |             |
| 7/12/2016  | <0.1       | <0.1       |            |            |            |            |             |
| 7/13/2016  |            |            | 0.08 (J)   | <0.1       | <0.1       | 0.05 (J)   |             |
| 9/13/2016  | <0.1       | <0.1       | 0.06 (J)   |            |            |            |             |
| 9/14/2016  |            |            |            | <0.1       | <0.1       | 0.04 (J)   |             |
| 11/19/2016 | <0.1       | <0.1       | 0.06 (J)   | <0.1       | <0.1       | 0.04 (J)   |             |
| 1/17/2017  | <0.1       | <0.1       |            | <0.1       | <0.1       |            |             |
| 1/18/2017  |            |            | 0.05 (J)   |            |            | <0.1       |             |
| 3/22/2017  | <0.1       | <0.1       |            |            |            |            |             |
| 3/23/2017  |            |            | 0.05 (J)   | <0.1       | <0.1       | <0.1       |             |
| 5/24/2017  | <0.1       | <0.1 (D)   | 0.06 (J)   | <0.1       | <0.1       | 0.04 (J)   |             |
| 10/16/2017 | <0.1       | <0.1       | 0.06 (J)   | <0.1       | <0.1       | <0.1       |             |
| 3/28/2018  | <0.1       |            | 0.06 (J)   | <0.1       |            | 0.04 (J)   | <0.1        |
| 3/29/2018  |            | <0.1       |            |            |            |            |             |
| 6/2/2018   | <0.1       | <0.1       | 0.06 (J)   | <0.1       |            | 0.05 (J)   | <0.1        |
| 11/8/2018  | <0.1       |            |            | <0.1       |            | 0.05 (J)   |             |
| 11/9/2018  |            | <0.1       | 0.06 (J)   |            |            |            | <0.1        |
| 2/11/2019  | <0.1       |            | 0.0368 (J) |            |            | <0.1       |             |
| 2/12/2019  |            | <0.1       |            | <0.1       |            |            | <0.1        |
| 4/17/2019  | <0.1       |            | 0.0421 (J) | <0.1       |            | 0.033 (J)  | <0.1        |
| 4/18/2019  |            | <0.1       |            |            |            |            |             |
| 9/27/2019  | <0.1       | <0.1       |            |            |            |            | 0.0313 (J)  |
| 9/30/2019  |            |            | 0.045 (J)  | <0.1       |            | <0.1       |             |
| 2/21/2020  | <0.1       | <0.1       |            | <0.1       |            |            | <0.1        |
| 2/22/2020  |            |            | 0.0434 (J) |            |            | 0.0317 (J) |             |
| 4/14/2020  | 0.0532 (J) | 0.0415 (J) | 0.059 (J)  | 0.034 (J)  |            | 0.0508 (J) | 0.0537 (J)  |
| 10/30/2020 | <0.1       |            | <0.1       | <0.1       |            | <0.1       | <0.1        |
| 11/2/2020  |            | <0.1       |            |            |            |            |             |
| 3/17/2021  |            |            | 0.0575 (J) |            |            | 0.0544 (J) |             |
| 3/26/2021  | <0.1       | <0.1       |            | <0.1       |            |            | <0.1        |
| 10/5/2021  | 0.0499 (J) | <0.1       |            |            |            | 0.0505 (J) |             |
| 10/6/2021  |            |            | 0.0725 (J) | <0.1       |            |            | <0.1        |
| 3/16/2022  | <0.1       | 0.0266 (J) | 0.176      | 0.0307 (J) |            | 0.0462 (J) | <0.1        |
| 10/5/2022  | <0.1       |            |            | <0.1       |            | 0.0322 (J) |             |
| 10/6/2022  |            | <0.1       | 0.0972 (J) |            |            |            |             |
| 4/20/2023  | <0.1       |            |            | <0.1       |            |            | 0.0278 (J)  |
| 4/21/2023  |            | <0.1       | 0.0665 (J) |            |            | 0.0441 (J) |             |
| 10/24/2023 | <0.1       | <0.1       |            |            |            |            | 0.0276 (J)  |
| 10/25/2023 |            |            | 0.0858 (J) | <0.1       |            | 0.0393 (J) |             |

# Prediction Limit

Constituent: pH (SU) Analysis Run 11/9/2023 11:37 AM View: Interwell

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-7 | BAW-5 | BAW-3 | BAW-2 (bg) | BAW-4 | BAW-2A (bg) |
|------------|------------|-------|-------|-------|------------|-------|-------------|
| 3/23/2016  | 5.12       | 4.89  | 6.64  | 5.05  | 5.52       | 5.38  |             |
| 5/17/2016  | 5.23       | 4.92  | 6.52  |       |            | 5.32  |             |
| 5/18/2016  |            |       |       | 4.86  | 5.24       |       |             |
| 7/12/2016  | 5.77       | 4.93  |       |       |            |       |             |
| 7/13/2016  |            |       | 6.63  | 5.11  | 5.17       | 5.31  |             |
| 9/13/2016  | 4.98       | 4.76  | 6.46  |       |            |       |             |
| 9/14/2016  |            |       |       | 4.84  | 5.04       | 5.21  |             |
| 11/19/2016 | 4.82       | 4.56  | 6.38  | 4.74  | 4.88       | 5.12  |             |
| 1/17/2017  | 5.04       | 4.86  |       | 4.95  | 5.04       |       |             |
| 1/18/2017  |            |       | 6.47  |       |            | 5.22  |             |
| 3/22/2017  | 4.73       | 4.66  |       |       |            |       |             |
| 3/23/2017  |            |       | 6.19  | 4.66  | 4.66       | 5.01  |             |
| 5/24/2017  | 5.01       | 4.83  | 6.34  | 4.86  | 4.93       | 5.19  |             |
| 10/16/2017 | 4.59       | 4.53  | 6.23  | 4.47  | 4.65       | 4.96  |             |
| 3/28/2018  | 4.87       |       | 6.22  | 4.93  |            | 5.23  | 5.39        |
| 3/29/2018  |            | 4.87  |       |       |            |       |             |
| 6/2/2018   | 4.92       | 4.87  | 6.24  | 4.83  |            | 5.22  | 5.06        |
| 11/8/2018  | 5          |       |       | 4.83  |            | 5.29  |             |
| 11/9/2018  |            | 4.92  | 6.27  |       |            |       | 4.92        |
| 2/11/2019  | 4.7        |       | 6.08  |       |            | 5     |             |
| 2/12/2019  |            | 4.79  |       | 4.65  |            |       | 4.86        |
| 4/17/2019  | 4.9        |       | 6.14  | 4.71  |            | 5.13  | 4.79        |
| 4/18/2019  |            | 4.9   |       |       |            |       |             |
| 2/21/2020  | 4.86       | 4.8   |       | 4.55  |            |       | 4.73        |
| 2/22/2020  |            |       | 6.13  |       |            | 5.3   |             |
| 4/14/2020  | 5.23       | 4.94  | 6.26  | 4.7   |            | 5.45  | 4.87        |
| 10/30/2020 | 5          |       | 6.19  | 4.8   |            | 5.32  | 4.87        |
| 11/2/2020  |            | 4.92  |       |       |            |       |             |
| 3/17/2021  |            |       | 6.14  |       |            | 5.62  |             |
| 3/26/2021  | 4.86       | 4.67  |       | 4.54  |            |       | 4.7         |
| 10/5/2021  | 5          | 4.84  |       |       |            | 5.72  |             |
| 10/6/2021  |            |       | 6.03  | 4.63  |            |       | 4.77        |
| 3/16/2022  | 4.92       | 4.75  | 6.2   | 4.64  |            | 5.56  | 4.91        |
| 10/5/2022  | 4.91       |       |       | 4.51  |            | 5.57  |             |
| 10/6/2022  |            | 4.71  | 6.27  |       |            |       |             |
| 4/20/2023  | 4.89       |       |       | 4.49  |            |       | 4.83        |
| 4/21/2023  |            | 4.95  | 6.09  |       |            | 5.45  |             |
| 10/24/2023 | 4.99       | 4.91  |       |       |            |       | 4.98        |
| 10/25/2023 |            |       | 6.11  | 4.43  |            | 5.42  |             |

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/9/2023 11:37 AM View: Interwell

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-7   | BAW-5   | BAW-3   | BAW-2 (bg) | BAW-4   | BAW-2A (bg) |
|------------|------------|---------|---------|---------|------------|---------|-------------|
| 3/23/2016  | <5         | <5      | 4.5 (J) | <5      | <5         | 2.3 (J) |             |
| 5/17/2016  | <5         | <5      | 17      |         |            | 2.3 (J) |             |
| 5/18/2016  |            |         |         | <5      | <5         |         |             |
| 7/12/2016  | <5         | <5      |         |         |            |         |             |
| 7/13/2016  |            |         | 15      | 1.5 (J) | <5         | 2.4 (J) |             |
| 9/13/2016  | <5         | <5      | 3.4 (J) |         |            |         |             |
| 9/14/2016  |            |         |         | 1.6 (J) | <5         | 2.4 (J) |             |
| 11/19/2016 | <5         | 1.5 (J) | 3.5 (J) | 1.8 (J) | <5         | 3.3 (J) |             |
| 1/17/2017  | <5         | <5      |         | <5      | <5         |         |             |
| 1/18/2017  |            |         | 3.2 (J) |         |            | 2.3 (J) |             |
| 3/22/2017  | <5         | 1.9 (J) |         |         |            |         |             |
| 3/23/2017  |            |         | 3.7 (J) | 2.3 (J) | 1.8 (J)    | 3.2 (J) |             |
| 5/24/2017  | <5         | <5      | 8.8     | 1.6 (J) | 1.5 (J)    | 2.4 (J) |             |
| 10/16/2017 | <5         | <5      | 4 (J)   | <5      | <5         | 2 (J)   |             |
| 3/28/2018  | <5         |         | 3.3 (J) | 1.6 (J) |            | 2.4 (J) | 1.7 (J)     |
| 3/29/2018  |            | <5      |         |         |            |         |             |
| 6/2/2018   | 1.9 (J)    | 2.8 (J) | 4.3 (J) | 2.9 (J) |            | 3.7 (J) | 3 (J)       |
| 11/8/2018  | <5         |         |         | 1.6 (J) |            | 2.7 (J) |             |
| 11/9/2018  |            | <5      | 2.3 (J) |         |            |         | <5          |
| 2/11/2019  | 0.774 (J)  |         | 2.64    |         |            | 2.5     |             |
| 2/12/2019  |            | 1.35    |         | 1.97    |            |         | 1.97        |
| 4/17/2019  | 1.43       |         | 3.27    | 2.5     |            | 3.15    | 2.82        |
| 4/18/2019  |            | 1.82    |         |         |            |         |             |
| 9/27/2019  | 1.03       | 1.22    |         |         |            |         | 2.19        |
| 9/30/2019  |            |         | 2.82    | 1.64    |            | 2.34    |             |
| 4/14/2020  | 0.928 (J)  | 1.18    | 4.2     | 1.62    |            | 2.99    | 2.71        |
| 10/30/2020 | 0.91 (J)   |         | 4.76    | 1.44    |            | 2.84    | 3.97        |
| 11/2/2020  |            | 1.08    |         |         |            |         |             |
| 3/17/2021  |            |         | 4.07    |         |            | 4.35    |             |
| 3/26/2021  | 1.49       | 2       |         | 3.25    |            |         | 2.04        |
| 10/5/2021  | 1.13       | 2.55    |         |         |            | 5.02    |             |
| 10/6/2021  |            |         | 14.5    | 5.07    |            |         | 5.37        |
| 3/16/2022  | 3.6        | 5.93    | 23.1    | 6.85    |            | 5.64    | 5.37        |
| 10/5/2022  | 1.34       |         |         | 6.07    |            | 4.12    |             |
| 10/6/2022  |            | 61.4    | 19.5    |         |            |         |             |
| 4/20/2023  | 2.6        |         |         | 8.2     |            |         | 7.32        |
| 4/21/2023  |            | 8.82    | 47.2    |         |            | 5       |             |
| 10/24/2023 | 1.8        | 2.11    |         |         |            |         | 7.68        |
| 10/25/2023 |            |         | 37.5    | 8.72    |            | 12.5    |             |

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/9/2023 11:37 AM View: Interwell

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-1 (bg) | BAW-7 | BAW-5 | BAW-3 | BAW-2 (bg) | BAW-4 | BAW-2A (bg) |
|------------|------------|-------|-------|-------|------------|-------|-------------|
| 3/23/2016  | 20         | 22    | 88    | 30    | 30         | 46    |             |
| 5/17/2016  | 24         | 30    | 110   |       |            | 52    |             |
| 5/18/2016  |            |       |       | 20    | 20         |       |             |
| 7/12/2016  | 24         | 26    |       |       |            |       |             |
| 7/13/2016  |            |       | 120   | 40    | 40         | 36    |             |
| 9/13/2016  | 18         | 28    | 92    |       |            |       |             |
| 9/14/2016  |            |       |       | <10   | 10         | 38    |             |
| 11/19/2016 | 20         | 38    | 94    | 22    | 28         | 50    |             |
| 1/17/2017  | <10        | 10    |       | 14    | 14         |       |             |
| 1/18/2017  |            |       | 68    |       |            | 18    |             |
| 3/22/2017  | 12         | 22    |       |       |            |       |             |
| 3/23/2017  |            |       | 80    | 28    | 16         | 32    |             |
| 5/24/2017  | 16 (D)     | 22    | 90    | 18    | 12         | 32    |             |
| 10/16/2017 | 58         | 34    | 110   | 36    | 50         | 64    |             |
| 3/28/2018  | 18         |       | 86    | 36    |            | 56    | 30          |
| 3/29/2018  |            | 50    |       |       |            |       |             |
| 6/2/2018   | 6          | <10   | 72    | 6     |            | 22    | 26          |
| 11/8/2018  | 12         |       |       | 34    |            | 170   |             |
| 11/9/2018  |            | 20    | 38    |       |            |       | 94          |
| 2/11/2019  | <10        |       | 60    |       |            | 23    |             |
| 2/12/2019  |            | <10   |       | 12    |            |       | 22          |
| 4/17/2019  | 16         |       | 82    | 27    |            | 37    | 22          |
| 4/18/2019  |            | 39    |       |       |            |       |             |
| 9/27/2019  | 26         | <10   |       |       |            |       | 25          |
| 9/30/2019  |            |       | 55    | <10   |            | <10   |             |
| 4/14/2020  | 25         | 24    | 77    | 31    |            | 30    | 38          |
| 10/30/2020 | 34         |       | 88    | 40    |            | 40    | 48          |
| 11/2/2020  |            | 28    |       |       |            |       |             |
| 3/17/2021  |            |       | 79    |       |            | 44    |             |
| 3/26/2021  | 24         | 38    |       | 37    |            |       | 24          |
| 10/5/2021  | 26         | 45    |       |       |            | 75    |             |
| 10/6/2021  |            |       | 114   | 30    |            |       | 61          |
| 3/16/2022  | 30         | 37    | 133   | 26    |            | 66    | 26          |
| 10/5/2022  | 30         |       |       | 32    |            | 52    |             |
| 10/6/2022  |            | 135   | 155   |       |            |       |             |
| 4/20/2023  | 26         |       |       | 31    |            |       | 30          |
| 4/21/2023  |            | 47    | 204   |       |            | 50    |             |
| 10/24/2023 | 28         | 42    |       |       |            |       | 35          |
| 10/25/2023 |            |       | 161   | 19    |            | 47    |             |

FIGURE E.



# Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 11/9/2023, 11:40 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>Alpha</u> | <u>Method</u> |
|--------------------|-------------|--------------|--------------|-----------------|-------------|----------|-------------|------------------|--------------|---------------|
| Calcium (mg/L)     | BAW-2 (bg)  | -0.4143      | -23          | -21             | Yes         | 8        | 0           | n/a              | 0.01         | NP            |
| Calcium (mg/L)     | BAW-4       | 0.3108       | 119          | 105             | Yes         | 24       | 0           | n/a              | 0.01         | NP            |
| pH (SU)            | BAW-2 (bg)  | -0.5393      | -29          | -25             | Yes         | 9        | 0           | n/a              | 0.01         | NP            |
| pH (SU)            | BAW-3       | -0.06186     | -159         | -98             | Yes         | 23       | 0           | n/a              | 0.01         | NP            |
| pH (SU)            | BAW-5       | -0.05587     | -148         | -98             | Yes         | 23       | 0           | n/a              | 0.01         | NP            |
| Sulfate (mg/L)     | BAW-1 (bg)  | -0.3946      | -110         | -98             | Yes         | 23       | 47.83       | n/a              | 0.01         | NP            |
| Sulfate (mg/L)     | BAW-2A (bg) | 1.002        | 47           | 43              | Yes         | 13       | 7.692       | n/a              | 0.01         | NP            |
| Sulfate (mg/L)     | BAW-4       | 0.3632       | 144          | 98              | Yes         | 23       | 0           | n/a              | 0.01         | NP            |

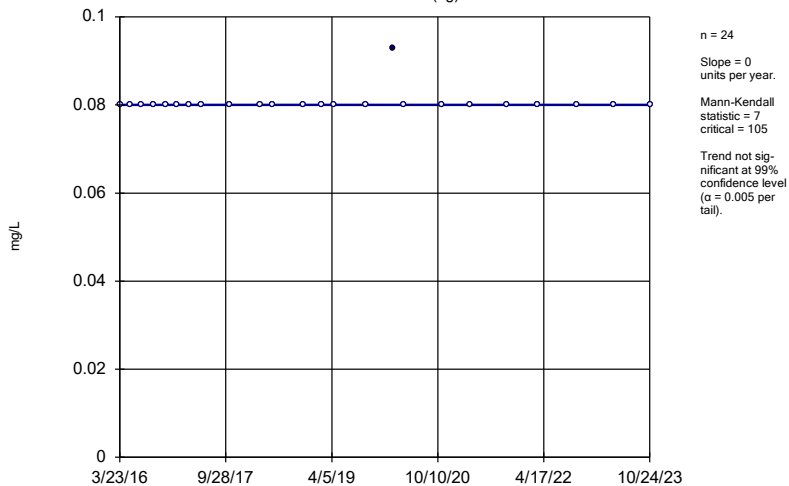
# Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant Daniel    Client: Southern Company    Data: Bottom Ash CCR    Printed 11/9/2023, 11:40 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>Alpha</u> | <u>Method</u> |
|-------------------------------|--------------------|-----------------|--------------|-----------------|-------------|-----------|--------------|------------------|--------------|---------------|
| Boron (mg/L)                  | BAW-1 (bg)         | 0               | 7            | 105             | No          | 24        | 95.83        | n/a              | 0.01         | NP            |
| Boron (mg/L)                  | BAW-2 (bg)         | 0               | 0            | 25              | No          | 9         | 100          | n/a              | 0.01         | NP            |
| Boron (mg/L)                  | BAW-2A (bg)        | -0.001822       | -33          | -48             | No          | 14        | 57.14        | n/a              | 0.01         | NP            |
| Boron (mg/L)                  | BAW-4              | 0.00614         | 88           | 105             | No          | 24        | 37.5         | n/a              | 0.01         | NP            |
| Boron (mg/L)                  | BAW-5              | 0.00709         | 43           | 105             | No          | 24        | 0            | n/a              | 0.01         | NP            |
| Calcium (mg/L)                | BAW-1 (bg)         | 0.02253         | 59           | 105             | No          | 24        | 4.167        | n/a              | 0.01         | NP            |
| <b>Calcium (mg/L)</b>         | <b>BAW-2 (bg)</b>  | <b>-0.4143</b>  | <b>-23</b>   | <b>-21</b>      | <b>Yes</b>  | <b>8</b>  | <b>0</b>     | <b>n/a</b>       | <b>0.01</b>  | <b>NP</b>     |
| Calcium (mg/L)                | BAW-2A (bg)        | -0.04956        | -43          | -48             | No          | 14        | 7.143        | n/a              | 0.01         | NP            |
| <b>Calcium (mg/L)</b>         | <b>BAW-4</b>       | <b>0.3108</b>   | <b>119</b>   | <b>105</b>      | <b>Yes</b>  | <b>24</b> | <b>0</b>     | <b>n/a</b>       | <b>0.01</b>  | <b>NP</b>     |
| Calcium (mg/L)                | BAW-5              | 0.1457          | 14           | 105             | No          | 24        | 0            | n/a              | 0.01         | NP            |
| pH (SU)                       | BAW-1 (bg)         | -0.01363        | -41          | -98             | No          | 23        | 0            | n/a              | 0.01         | NP            |
| <b>pH (SU)</b>                | <b>BAW-2 (bg)</b>  | <b>-0.5393</b>  | <b>-29</b>   | <b>-25</b>      | <b>Yes</b>  | <b>9</b>  | <b>0</b>     | <b>n/a</b>       | <b>0.01</b>  | <b>NP</b>     |
| pH (SU)                       | BAW-2A (bg)        | -0.03071        | -19          | -43             | No          | 13        | 0            | n/a              | 0.01         | NP            |
| <b>pH (SU)</b>                | <b>BAW-3</b>       | <b>-0.06186</b> | <b>-159</b>  | <b>-98</b>      | <b>Yes</b>  | <b>23</b> | <b>0</b>     | <b>n/a</b>       | <b>0.01</b>  | <b>NP</b>     |
| <b>pH (SU)</b>                | <b>BAW-5</b>       | <b>-0.05587</b> | <b>-148</b>  | <b>-98</b>      | <b>Yes</b>  | <b>23</b> | <b>0</b>     | <b>n/a</b>       | <b>0.01</b>  | <b>NP</b>     |
| <b>Sulfate (mg/L)</b>         | <b>BAW-1 (bg)</b>  | <b>-0.3946</b>  | <b>-110</b>  | <b>-98</b>      | <b>Yes</b>  | <b>23</b> | <b>47.83</b> | <b>n/a</b>       | <b>0.01</b>  | <b>NP</b>     |
| Sulfate (mg/L)                | BAW-2 (bg)         | 0               | -11          | -25             | No          | 9         | 77.78        | n/a              | 0.01         | NP            |
| <b>Sulfate (mg/L)</b>         | <b>BAW-2A (bg)</b> | <b>1.002</b>    | <b>47</b>    | <b>43</b>       | <b>Yes</b>  | <b>13</b> | <b>7.692</b> | <b>n/a</b>       | <b>0.01</b>  | <b>NP</b>     |
| Sulfate (mg/L)                | BAW-3              | 0.3476          | 77           | 98              | No          | 23        | 17.39        | n/a              | 0.01         | NP            |
| <b>Sulfate (mg/L)</b>         | <b>BAW-4</b>       | <b>0.3632</b>   | <b>144</b>   | <b>98</b>       | <b>Yes</b>  | <b>23</b> | <b>0</b>     | <b>n/a</b>       | <b>0.01</b>  | <b>NP</b>     |
| Sulfate (mg/L)                | BAW-5              | 0.5503          | 61           | 98              | No          | 23        | 0            | n/a              | 0.01         | NP            |
| Total Dissolved Solids (mg/L) | BAW-1 (bg)         | 1.323           | 77           | 98              | No          | 23        | 8.696        | n/a              | 0.01         | NP            |
| Total Dissolved Solids (mg/L) | BAW-2 (bg)         | -5.236          | -4           | -25             | No          | 9         | 0            | n/a              | 0.01         | NP            |
| Total Dissolved Solids (mg/L) | BAW-2A (bg)        | 0.987           | 11           | 43              | No          | 13        | 0            | n/a              | 0.01         | NP            |
| Total Dissolved Solids (mg/L) | BAW-5              | 4.691           | 37           | 98              | No          | 23        | 0            | n/a              | 0.01         | NP            |

### Sen's Slope Estimator

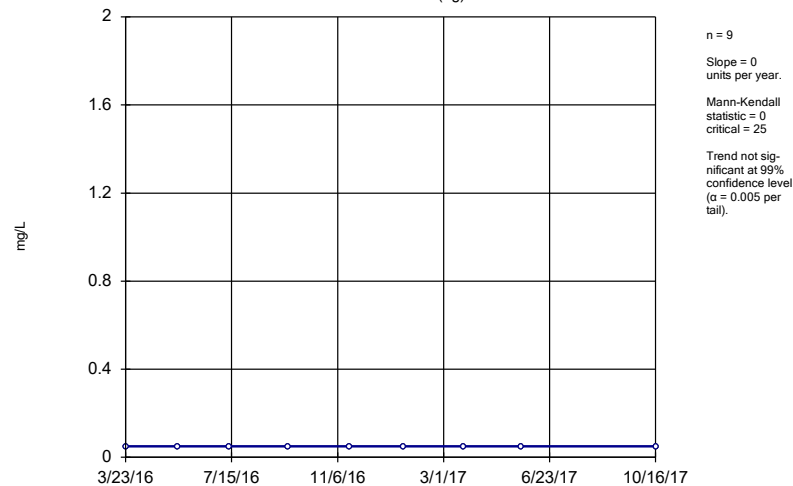
BAW-1 (bg)



Constituent: Boron Analysis Run 11/9/2023 11:38 AM View: Trend Tests  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Sen's Slope Estimator

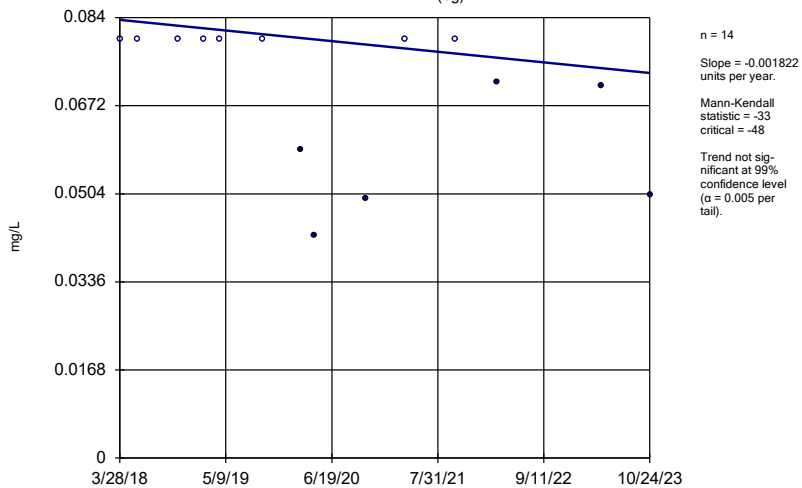
BAW-2 (bg)



Constituent: Boron Analysis Run 11/9/2023 11:38 AM View: Trend Tests  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Sen's Slope Estimator

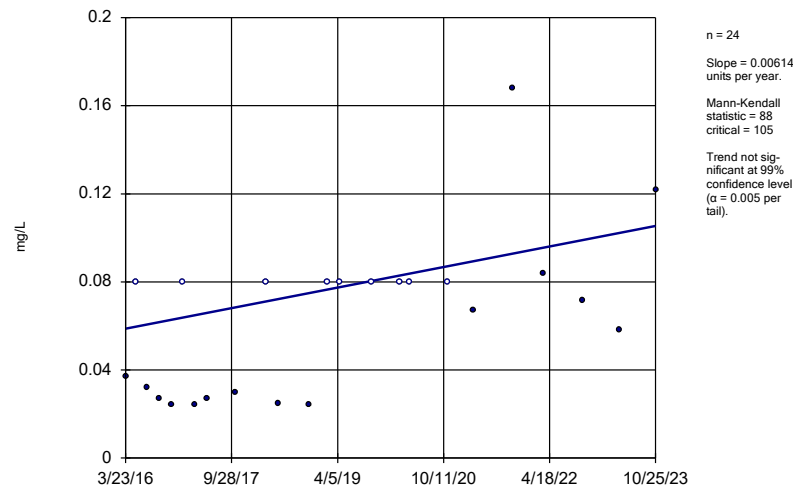
BAW-2A (bg)



Constituent: Boron Analysis Run 11/9/2023 11:38 AM View: Trend Tests  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Sen's Slope Estimator

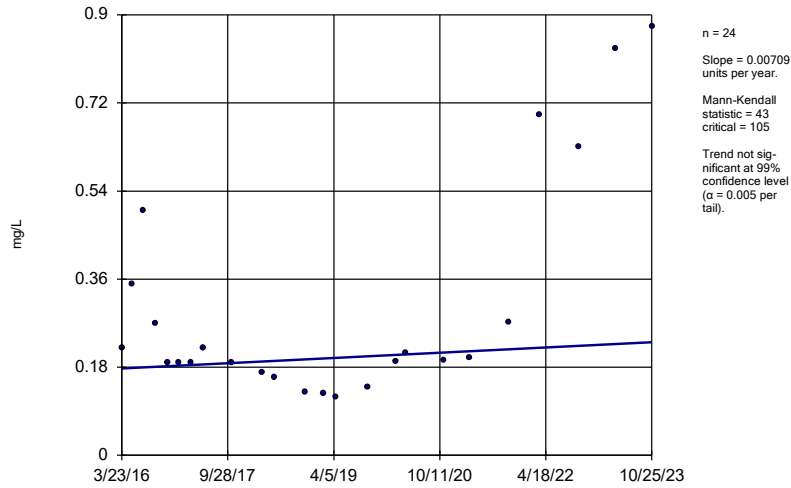
BAW-4



Constituent: Boron Analysis Run 11/9/2023 11:38 AM View: Trend Tests  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Sen's Slope Estimator

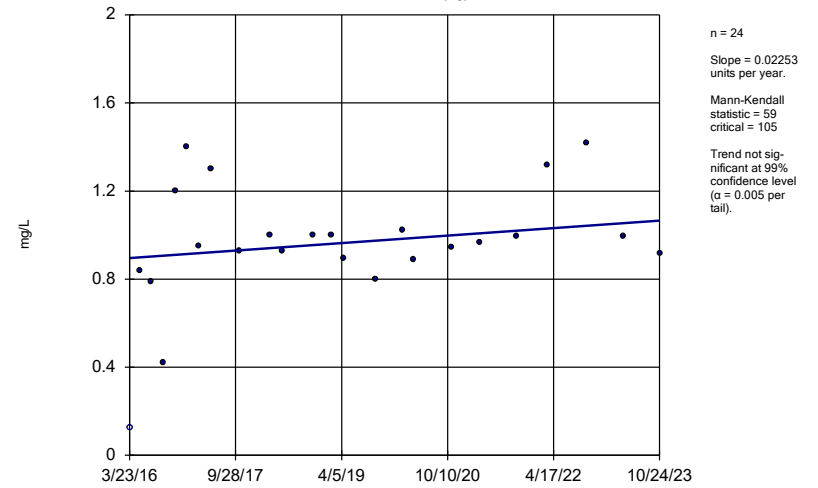
BAW-5



Constituent: Boron Analysis Run 11/9/2023 11:38 AM View: Trend Tests  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Sen's Slope Estimator

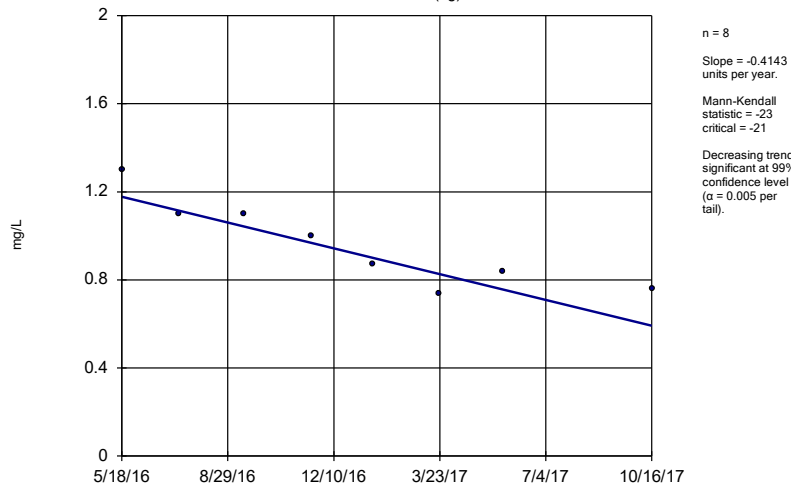
BAW-1 (bg)



Constituent: Calcium Analysis Run 11/9/2023 11:38 AM View: Trend Tests  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Sen's Slope Estimator

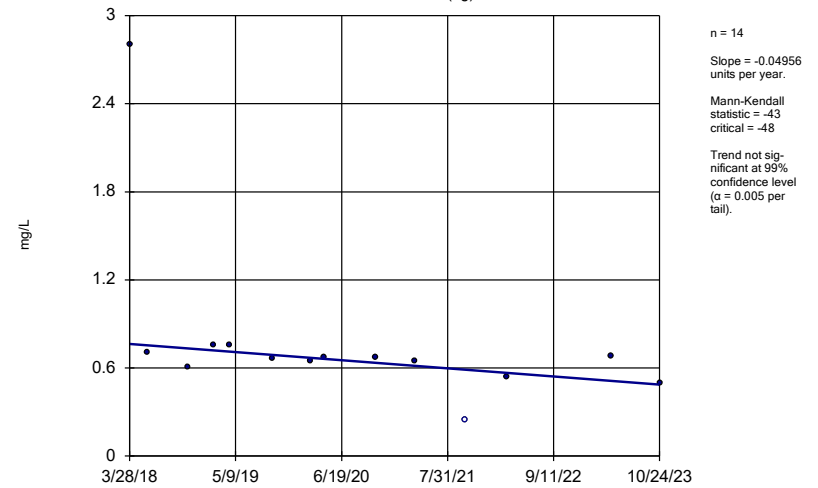
BAW-2 (bg)



Constituent: Calcium Analysis Run 11/9/2023 11:38 AM View: Trend Tests  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Sen's Slope Estimator

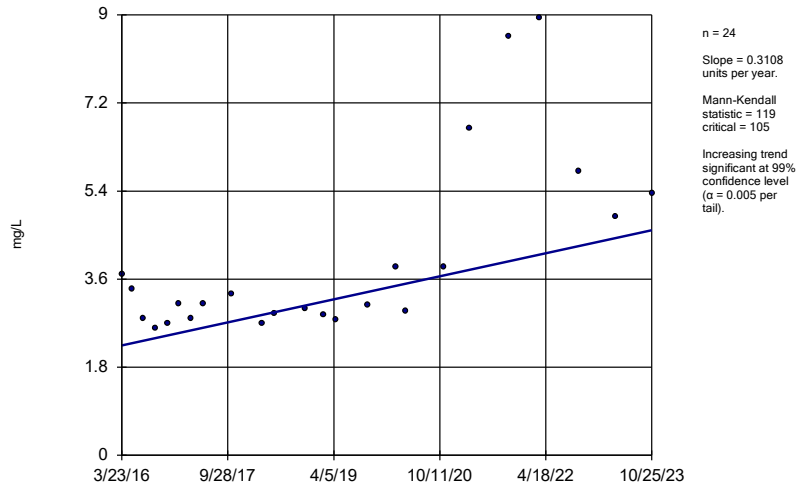
BAW-2A (bg)



Constituent: Calcium Analysis Run 11/9/2023 11:38 AM View: Trend Tests  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Sen's Slope Estimator

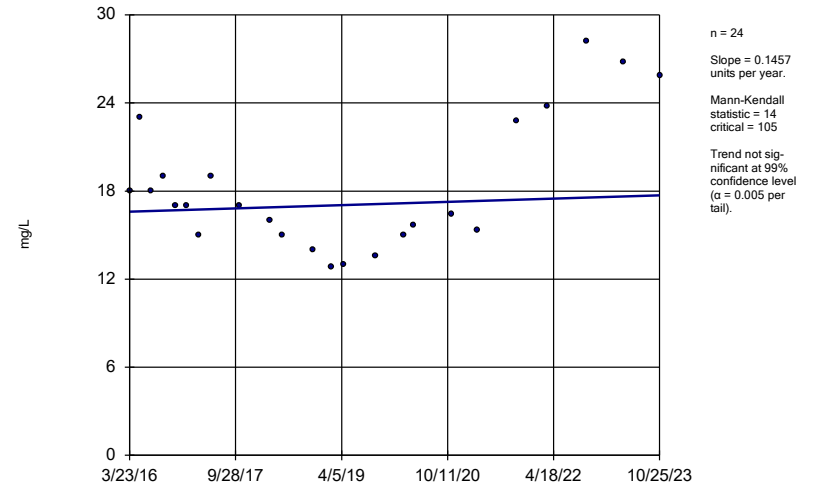
BAW-4



Constituent: Calcium Analysis Run 11/9/2023 11:38 AM View: Trend Tests  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Sen's Slope Estimator

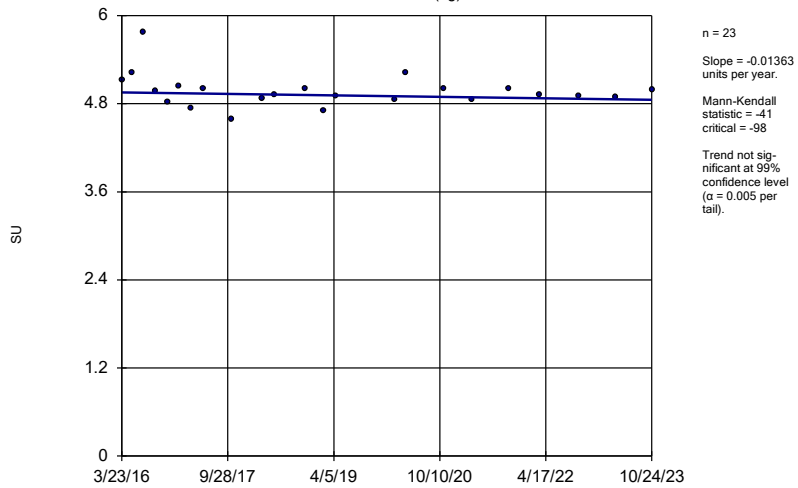
BAW-5



Constituent: Calcium Analysis Run 11/9/2023 11:38 AM View: Trend Tests  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Sen's Slope Estimator

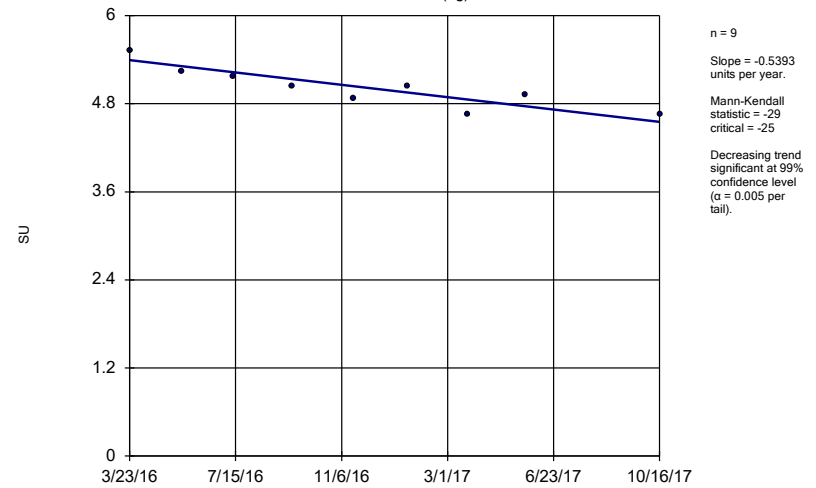
BAW-1 (bg)



Constituent: pH Analysis Run 11/9/2023 11:38 AM View: Trend Tests  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Sen's Slope Estimator

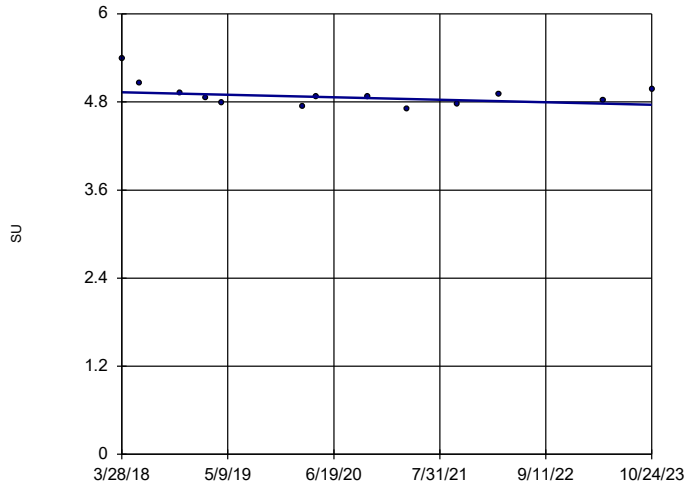
BAW-2 (bg)



Constituent: pH Analysis Run 11/9/2023 11:38 AM View: Trend Tests  
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Sen's Slope Estimator

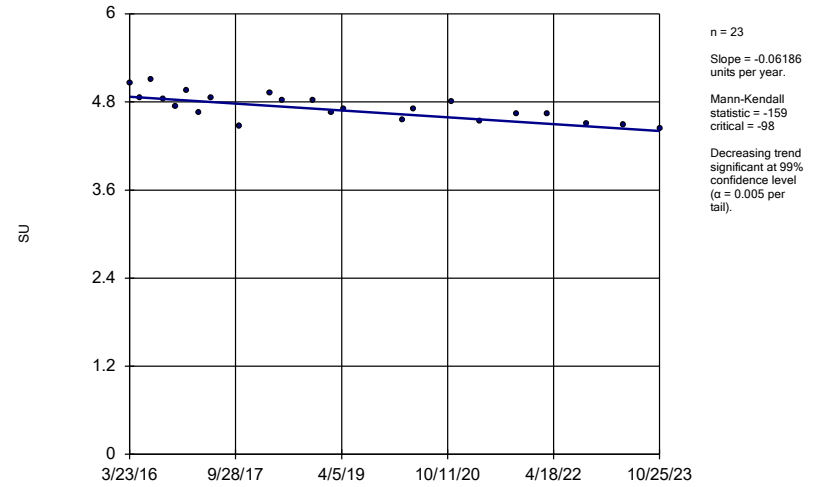
BAW-2A (bg)



Constituent: pH Analysis Run 11/9/2023 11:38 AM View: Trend Tests  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Sen's Slope Estimator

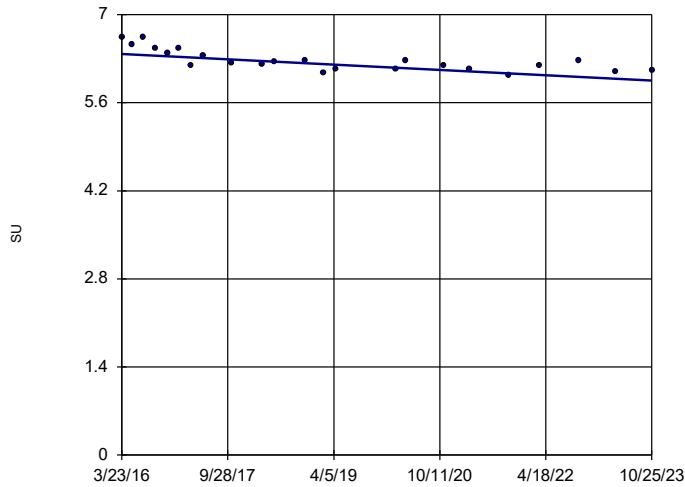
BAW-3



Constituent: pH Analysis Run 11/9/2023 11:38 AM View: Trend Tests  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Sen's Slope Estimator

BAW-5

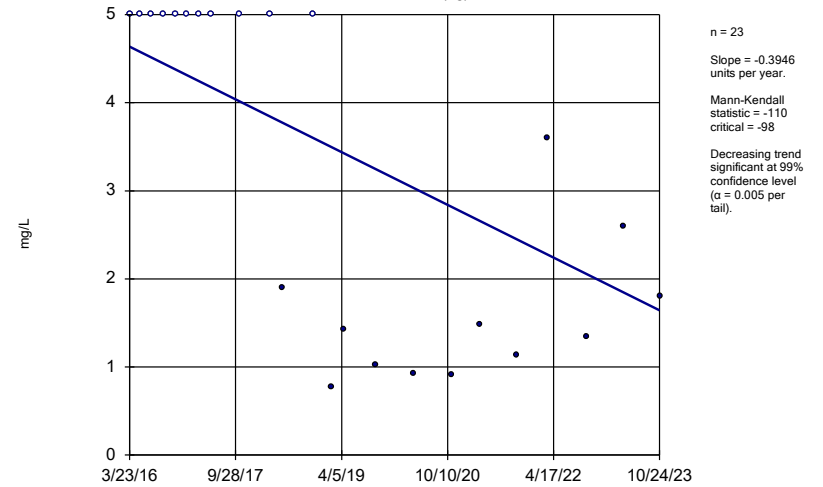


Constituent: pH Analysis Run 11/9/2023 11:38 AM View: Trend Tests  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Hollow symbols indicate censored values.

### Sen's Slope Estimator

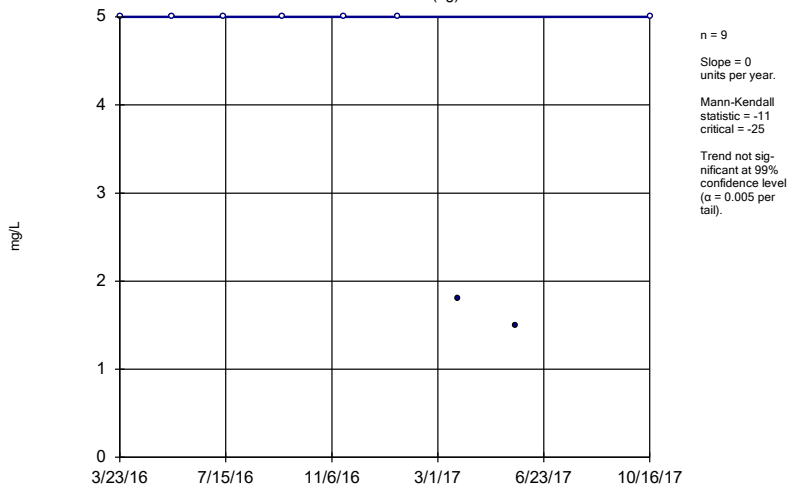
BAW-1 (bg)



Constituent: Sulfate Analysis Run 11/9/2023 11:38 AM View: Trend Tests  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Sen's Slope Estimator

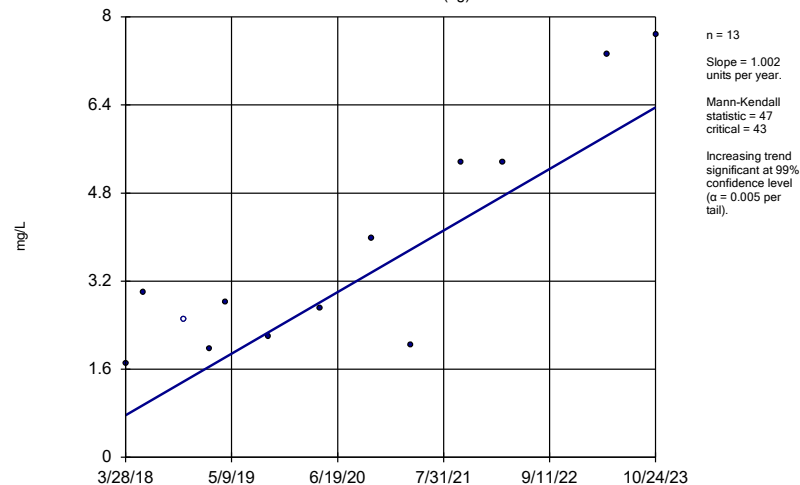
BAW-2 (bg)



Constituent: Sulfate Analysis Run 11/9/2023 11:38 AM View: Trend Tests  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Sen's Slope Estimator

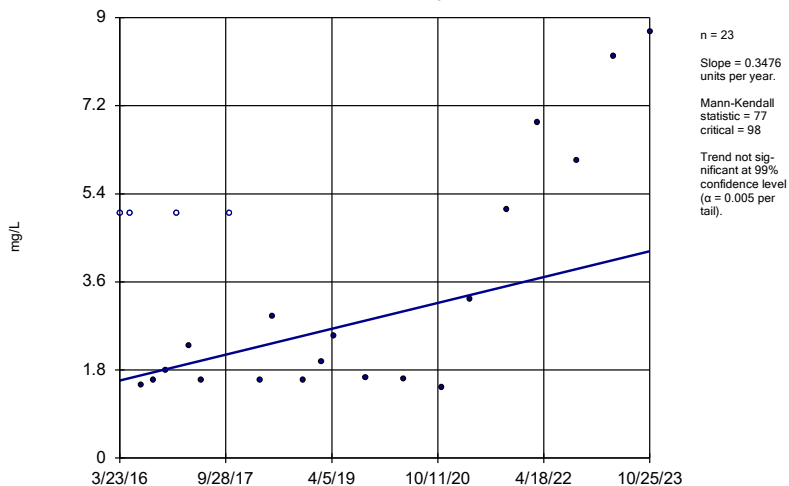
BAW-2A (bg)



Constituent: Sulfate Analysis Run 11/9/2023 11:38 AM View: Trend Tests  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Sen's Slope Estimator

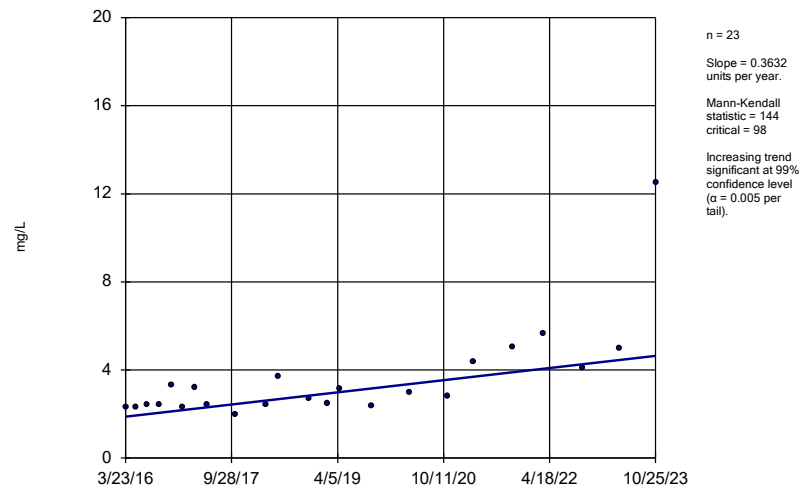
BAW-3



Constituent: Sulfate Analysis Run 11/9/2023 11:38 AM View: Trend Tests  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Sen's Slope Estimator

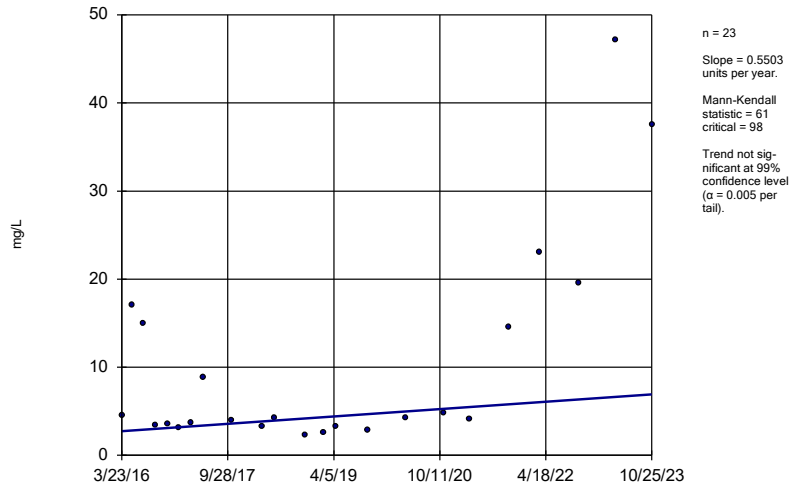
BAW-4



Constituent: Sulfate Analysis Run 11/9/2023 11:38 AM View: Trend Tests  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Sen's Slope Estimator

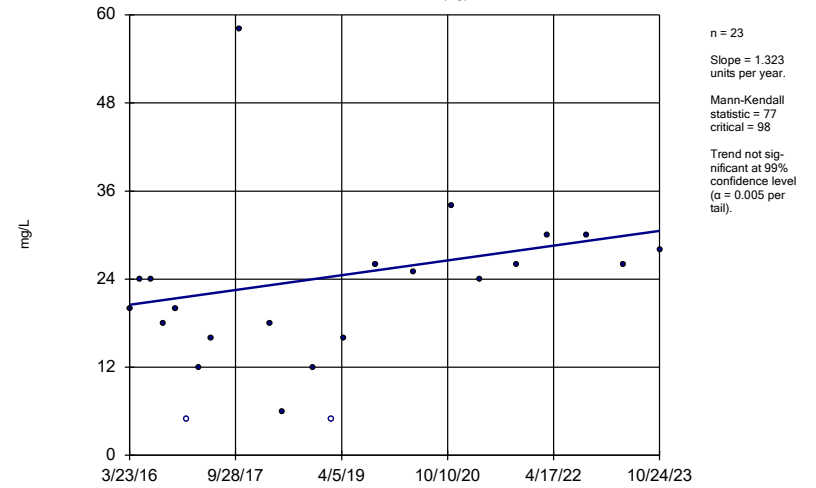
BAW-5



Constituent: Sulfate Analysis Run 11/9/2023 11:38 AM View: Trend Tests  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Sen's Slope Estimator

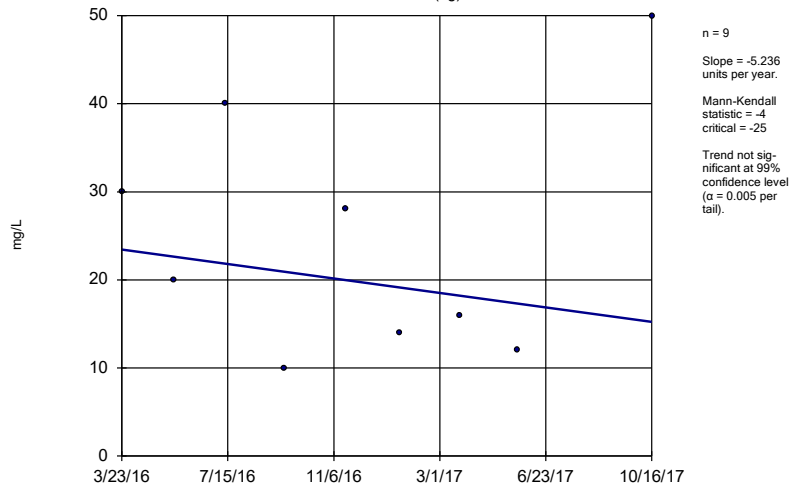
BAW-1 (bg)



Constituent: Total Dissolved Solids Analysis Run 11/9/2023 11:38 AM View: Trend Tests  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Sen's Slope Estimator

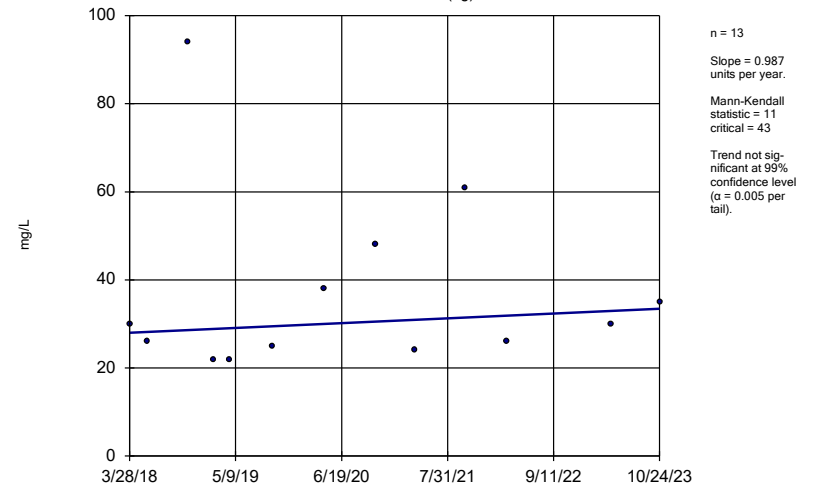
BAW-2 (bg)



Constituent: Total Dissolved Solids Analysis Run 11/9/2023 11:38 AM View: Trend Tests  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Sen's Slope Estimator

BAW-2A (bg)

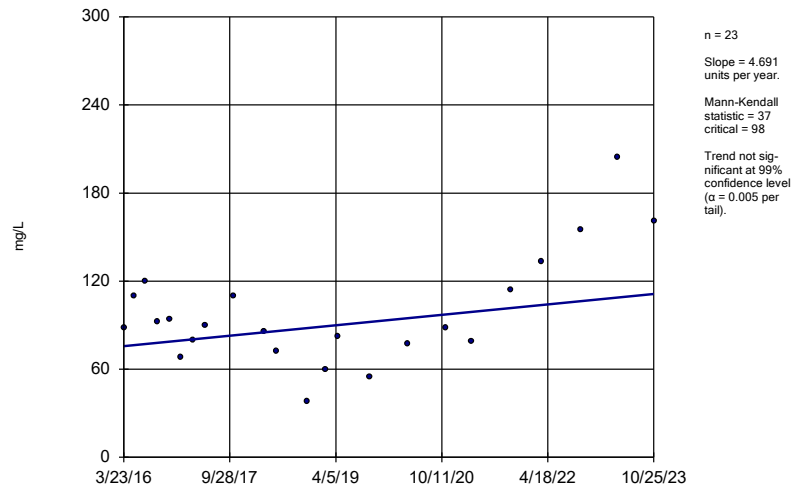


Constituent: Total Dissolved Solids Analysis Run 11/9/2023 11:39 AM View: Trend Tests  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR



### Sen's Slope Estimator

BAW-5



Constituent: Total Dissolved Solids    Analysis Run 11/9/2023 11:39 AM    View: Trend Tests  
Plant Daniel    Client: Southern Company    Data: Bottom Ash CCR

FIGURE F.

# Upper Tolerance Limits Summary Table

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 12/8/2023, 8:52 AM

| <u>Constituent</u>                | <u>Upper Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bg N</u> | <u>Bg Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u>       |
|-----------------------------------|-------------------|-------------|----------------|-------------|-------------|----------------|------------------|-------------|----------------|------------------|--------------|---------------------|
| Antimony (mg/L)                   | 0.002             | n/a         | n/a            | n/a         | 39          | n/a            | n/a              | 97.44       | n/a            | n/a              | 0.1353       | NP Inter(NDs)       |
| Arsenic (mg/L)                    | 0.001             | n/a         | n/a            | n/a         | 45          | n/a            | n/a              | 100         | n/a            | n/a              | 0.09944      | NP Inter(NDs)       |
| Barium (mg/L)                     | 0.0512            | n/a         | n/a            | n/a         | 45          | n/a            | n/a              | 2.222       | n/a            | n/a              | 0.09944      | NP Inter(normality) |
| Beryllium (mg/L)                  | 0.001             | n/a         | n/a            | n/a         | 41          | n/a            | n/a              | 97.56       | n/a            | n/a              | 0.1221       | NP Inter(NDs)       |
| Cadmium (mg/L)                    | 0.001             | n/a         | n/a            | n/a         | 45          | n/a            | n/a              | 97.78       | n/a            | n/a              | 0.09944      | NP Inter(NDs)       |
| Chromium (mg/L)                   | 0.00286           | n/a         | n/a            | n/a         | 43          | n/a            | n/a              | 90.7        | n/a            | n/a              | 0.1102       | NP Inter(NDs)       |
| Cobalt (mg/L)                     | 0.00171           | n/a         | n/a            | n/a         | 45          | 0.02906        | 0.005878         | 6.667       | None           | sqrt(x)          | 0.05         | Inter               |
| Combined Radium 226 + 228 (pCi/L) | 2.5               | n/a         | n/a            | n/a         | 45          | n/a            | n/a              | 4.444       | n/a            | n/a              | 0.09944      | NP Inter(normality) |
| Fluoride (mg/L)                   | 0.1               | n/a         | n/a            | n/a         | 47          | n/a            | n/a              | 87.23       | n/a            | n/a              | 0.08974      | NP Inter(NDs)       |
| Lead (mg/L)                       | 0.001             | n/a         | n/a            | n/a         | 43          | n/a            | n/a              | 100         | n/a            | n/a              | 0.1102       | NP Inter(NDs)       |
| Lithium (mg/L)                    | 0.00505           | n/a         | n/a            | n/a         | 44          | n/a            | n/a              | 70.45       | n/a            | n/a              | 0.1047       | NP Inter(NDs)       |
| Mercury (mg/L)                    | 0.0002            | n/a         | n/a            | n/a         | 37          | n/a            | n/a              | 94.59       | n/a            | n/a              | 0.1499       | NP Inter(NDs)       |
| Molybdenum (mg/L)                 | 0.005             | n/a         | n/a            | n/a         | 41          | n/a            | n/a              | 90.24       | n/a            | n/a              | 0.1221       | NP Inter(NDs)       |
| Selenium (mg/L)                   | 0.005             | n/a         | n/a            | n/a         | 41          | n/a            | n/a              | 85.37       | n/a            | n/a              | 0.1221       | NP Inter(NDs)       |
| Thallium (mg/L)                   | 0.001             | n/a         | n/a            | n/a         | 41          | n/a            | n/a              | 97.56       | n/a            | n/a              | 0.1221       | NP Inter(NDs)       |

# Upper Tolerance Limits Summary Table

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 12/8/2023, 8:52 AM

| <u>Constituent</u>                | <u>Upper Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bg N</u> | <u>Bg Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u>       |
|-----------------------------------|-------------------|-------------|----------------|-------------|-------------|----------------|------------------|-------------|----------------|------------------|--------------|---------------------|
| Antimony (mg/L)                   | 0.002             | n/a         | n/a            | n/a         | 39          | n/a            | n/a              | 97.44       | n/a            | n/a              | 0.1353       | NP Inter(NDs)       |
| Arsenic (mg/L)                    | 0.001             | n/a         | n/a            | n/a         | 45          | n/a            | n/a              | 100         | n/a            | n/a              | 0.09944      | NP Inter(NDs)       |
| Barium (mg/L)                     | 0.0512            | n/a         | n/a            | n/a         | 45          | n/a            | n/a              | 2.222       | n/a            | n/a              | 0.09944      | NP Inter(normality) |
| Beryllium (mg/L)                  | 0.001             | n/a         | n/a            | n/a         | 41          | n/a            | n/a              | 97.56       | n/a            | n/a              | 0.1221       | NP Inter(NDs)       |
| Cadmium (mg/L)                    | 0.001             | n/a         | n/a            | n/a         | 45          | n/a            | n/a              | 97.78       | n/a            | n/a              | 0.09944      | NP Inter(NDs)       |
| Chromium (mg/L)                   | 0.00286           | n/a         | n/a            | n/a         | 43          | n/a            | n/a              | 90.7        | n/a            | n/a              | 0.1102       | NP Inter(NDs)       |
| Cobalt (mg/L)                     | 0.00171           | n/a         | n/a            | n/a         | 45          | 0.02906        | 0.005878         | 6.667       | None           | sqrt(x)          | 0.05         | Inter               |
| Combined Radium 226 + 228 (pCi/L) | 2.5               | n/a         | n/a            | n/a         | 45          | n/a            | n/a              | 4.444       | n/a            | n/a              | 0.09944      | NP Inter(normality) |
| Fluoride (mg/L)                   | 0.1               | n/a         | n/a            | n/a         | 47          | n/a            | n/a              | 87.23       | n/a            | n/a              | 0.08974      | NP Inter(NDs)       |
| Lead (mg/L)                       | 0.001             | n/a         | n/a            | n/a         | 43          | n/a            | n/a              | 100         | n/a            | n/a              | 0.1102       | NP Inter(NDs)       |
| Lithium (mg/L)                    | 0.00505           | n/a         | n/a            | n/a         | 44          | n/a            | n/a              | 70.45       | n/a            | n/a              | 0.1047       | NP Inter(NDs)       |
| Mercury (mg/L)                    | 0.0002            | n/a         | n/a            | n/a         | 37          | n/a            | n/a              | 94.59       | n/a            | n/a              | 0.1499       | NP Inter(NDs)       |
| Molybdenum (mg/L)                 | 0.005             | n/a         | n/a            | n/a         | 41          | n/a            | n/a              | 90.24       | n/a            | n/a              | 0.1221       | NP Inter(NDs)       |
| Selenium (mg/L)                   | 0.005             | n/a         | n/a            | n/a         | 41          | n/a            | n/a              | 85.37       | n/a            | n/a              | 0.1221       | NP Inter(NDs)       |
| Thallium (mg/L)                   | 0.001             | n/a         | n/a            | n/a         | 41          | n/a            | n/a              | 97.56       | n/a            | n/a              | 0.1221       | NP Inter(NDs)       |

FIGURE G.

| <b>PLANT DANIEL BOTTOM ASH GWPS</b> |            |                           |                         |             |
|-------------------------------------|------------|---------------------------|-------------------------|-------------|
| <b>Constituent Name</b>             | <b>MCL</b> | <b>CCR-Rule Specified</b> | <b>Background Limit</b> | <b>GWPS</b> |
| Antimony, Total (mg/L)              | 0.006      |                           | 0.002                   | 0.006       |
| Arsenic, Total (mg/L)               | 0.01       |                           | 0.001                   | 0.01        |
| Barium, Total (mg/L)                | 2          |                           | 0.051                   | 2           |
| Beryllium, Total (mg/L)             | 0.004      |                           | 0.001                   | 0.004       |
| Cadmium, Total (mg/L)               | 0.005      |                           | 0.001                   | 0.005       |
| Chromium, Total (mg/L)              | 0.1        |                           | 0.0029                  | 0.1         |
| Cobalt, Total (mg/L)                | n/a        | 0.006                     | 0.0017                  | 0.006       |
| Combined Radium, Total (pCi/L)      | 5          |                           | 2.5                     | 5           |
| Fluoride, Total (mg/L)              | 4          |                           | 0.1                     | 4           |
| Lead, Total (mg/L)                  | 0.015      |                           | 0.001                   | 0.015       |
| Lithium, Total (mg/L)               | n/a        | 0.04                      | 0.0051                  | 0.04        |
| Mercury, Total (mg/L)               | 0.002      |                           | 0.0002                  | 0.002       |
| Molybdenum, Total (mg/L)            | n/a        | 0.1                       | 0.005                   | 0.1         |
| Selenium, Total (mg/L)              | 0.05       |                           | 0.005                   | 0.05        |
| Thallium, Total (mg/L)              | 0.002      |                           | 0.001                   | 0.002       |

\*MCL = Maximum Contaminant Level

\*CCR = Coal Combustion Residuals

\*GWPS = Groundwater Protection Standard

FIGURE H.

# Confidence Intervals - Significant Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 12/8/2023, 8:55 AM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Compliance</u> | <u>Sig. N</u> | <u>Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|--------------------|-------------|-------------------|-------------------|-------------------|---------------|-------------|------------------|-------------|----------------|------------------|--------------|---------------|
| Lithium (mg/L)     | BAW-5       | 0.1861            | 0.1409            | 0.04              | Yes 23        | 0.1568      | 0.05267          | 0           | None           | x^2              | 0.01         | Param.        |



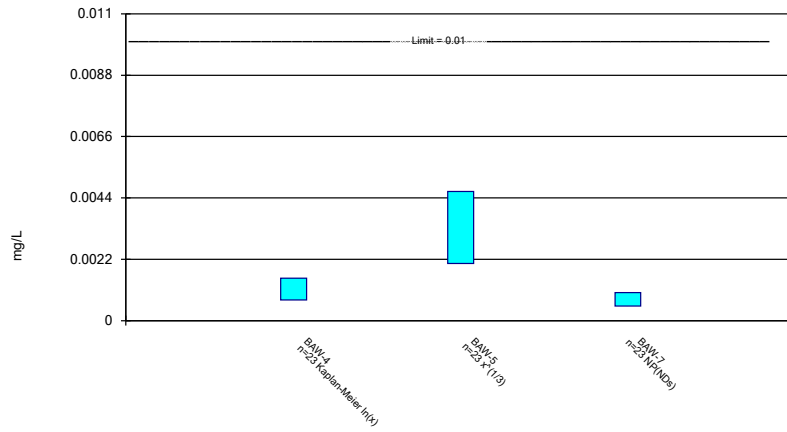
# Confidence Intervals - All Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 12/8/2023, 8:55 AM

| Constituent                       | Well         | Upper Lim.    | Lower Lim.    | Compliance  | Sig. N        | Mean          | Std. Dev.       | %NDs     | ND Adj.      | Transform  | Alpha       | Method         |
|-----------------------------------|--------------|---------------|---------------|-------------|---------------|---------------|-----------------|----------|--------------|------------|-------------|----------------|
| Arsenic (mg/L)                    | BAW-4        | 0.00152       | 0.000741      | 0.01        | No 23         | 0.001513      | 0.001303        | 17.39    | Kaplan-Meier | ln(x)      | 0.01        | Param.         |
| Arsenic (mg/L)                    | BAW-5        | 0.004632      | 0.002047      | 0.01        | No 23         | 0.003821      | 0.003257        | 0        | None         | x^(1/3)    | 0.01        | Param.         |
| Arsenic (mg/L)                    | BAW-7        | 0.001         | 0.00052       | 0.01        | No 23         | 0.0009574     | 0.0001412       | 91.3     | None         | No         | 0.01        | NP (NDs)       |
| Barium (mg/L)                     | BAW-3        | 0.03211       | 0.02339       | 2           | No 23         | 0.02775       | 0.008331        | 0        | None         | No         | 0.01        | Param.         |
| Barium (mg/L)                     | BAW-4        | 0.0221        | 0.0091        | 2           | No 23         | 0.01374       | 0.007445        | 0        | None         | No         | 0.01        | NP (normality) |
| Barium (mg/L)                     | BAW-5        | 0.0493        | 0.041         | 2           | No 23         | 0.05037       | 0.01706         | 0        | None         | No         | 0.01        | NP (normality) |
| Barium (mg/L)                     | BAW-7        | 0.0184        | 0.011         | 2           | No 23         | 0.0182        | 0.01765         | 0        | None         | No         | 0.01        | NP (normality) |
| Beryllium (mg/L)                  | BAW-3        | 0.001         | 0.000225      | 0.004       | No 21         | 0.0009262     | 0.0002331       | 90.48    | None         | No         | 0.01        | NP (NDs)       |
| Beryllium (mg/L)                  | BAW-7        | 0.001         | 0.000185      | 0.004       | No 21         | 0.0009612     | 0.0001778       | 95.24    | None         | No         | 0.01        | NP (NDs)       |
| Cadmium (mg/L)                    | BAW-3        | 0.0008656     | 0.000569      | 0.005       | No 23         | 0.0007173     | 0.0002836       | 4.348    | None         | No         | 0.01        | Param.         |
| Cadmium (mg/L)                    | BAW-5        | 0.001         | 0.000155      | 0.005       | No 23         | 0.0009633     | 0.0001762       | 95.65    | None         | No         | 0.01        | NP (NDs)       |
| Chromium (mg/L)                   | BAW-3        | 0.003         | 0.00165       | 0.1         | No 22         | 0.002807      | 0.003646        | 86.36    | None         | No         | 0.01        | NP (NDs)       |
| Chromium (mg/L)                   | BAW-4        | 0.002         | 0.0015        | 0.1         | No 22         | 0.001914      | 0.0002336       | 86.36    | None         | No         | 0.01        | NP (NDs)       |
| Chromium (mg/L)                   | BAW-5        | 0.0024        | 0.0012        | 0.1         | No 22         | 0.002118      | 0.0006723       | 86.36    | None         | No         | 0.01        | NP (NDs)       |
| Chromium (mg/L)                   | BAW-7        | 0.00206       | 0.002         | 0.1         | No 22         | 0.002003      | 0.0000127995.45 | None     | None         | No         | 0.01        | NP (NDs)       |
| Cobalt (mg/L)                     | BAW-3        | 0.006644      | 0.005048      | 0.006       | No 23         | 0.005846      | 0.001526        | 0        | None         | No         | 0.01        | Param.         |
| Cobalt (mg/L)                     | BAW-4        | 0.001404      | 0.001044      | 0.006       | No 23         | 0.00124       | 0.0003633       | 0        | None         | sqrt(x)    | 0.01        | Param.         |
| Cobalt (mg/L)                     | BAW-5        | 0.000802      | 0.0005        | 0.006       | No 23         | 0.000685      | 0.0005047       | 73.91    | None         | No         | 0.01        | NP (NDs)       |
| Cobalt (mg/L)                     | BAW-7        | 0.0011        | 0.00071       | 0.006       | No 23         | 0.00116       | 0.001001        | 0        | None         | No         | 0.01        | NP (normality) |
| Combined Radium 226 + 228 (pCi/L) | BAW-3        | 0.857         | 0.27          | 5           | No 23         | 0.6256        | 0.6913          | 8.696    | None         | No         | 0.01        | NP (normality) |
| Combined Radium 226 + 228 (pCi/L) | BAW-4        | 0.7137        | 0.1233        | 5           | No 23         | 0.5991        | 0.7886          | 13.04    | None         | x^(1/3)    | 0.01        | Param.         |
| Combined Radium 226 + 228 (pCi/L) | BAW-5        | 0.9508        | 0.3924        | 5           | No 22         | 0.7419        | 0.6051          | 4.545    | None         | sqrt(x)    | 0.01        | Param.         |
| Combined Radium 226 + 228 (pCi/L) | BAW-7        | 1.037         | 0.3219        | 5           | No 23         | 0.806         | 0.8069          | 13.04    | None         | sqrt(x)    | 0.01        | Param.         |
| Fluoride (mg/L)                   | BAW-3        | 0.1           | 0.034         | 4           | No 24         | 0.09436       | 0.01911         | 91.67    | None         | No         | 0.01        | NP (NDs)       |
| Fluoride (mg/L)                   | BAW-4        | 0.0544        | 0.04          | 4           | No 24         | 0.05718       | 0.02595         | 25       | None         | No         | 0.01        | NP (normality) |
| Fluoride (mg/L)                   | BAW-5        | 0.07          | 0.05          | 4           | No 24         | 0.06508       | 0.02739         | 4.167    | None         | No         | 0.01        | NP (normality) |
| Fluoride (mg/L)                   | BAW-7        | 0.1           | 0.0415        | 4           | No 24         | 0.0945        | 0.01875         | 91.67    | None         | No         | 0.01        | NP (NDs)       |
| Lead (mg/L)                       | BAW-3        | 0.001         | 0.000322      | 0.015       | No 22         | 0.0007013     | 0.0003785       | 59.09    | None         | No         | 0.01        | NP (NDs)       |
| Lead (mg/L)                       | BAW-4        | 0.001         | 0.00042       | 0.015       | No 22         | 0.0008706     | 0.0002855       | 81.82    | None         | No         | 0.01        | NP (NDs)       |
| Lead (mg/L)                       | BAW-5        | 0.001         | 0.000152      | 0.015       | No 22         | 0.0009615     | 0.0001808       | 95.45    | None         | No         | 0.01        | NP (NDs)       |
| Lead (mg/L)                       | BAW-7        | 0.001         | 0.000129      | 0.015       | No 22         | 0.0009604     | 0.0001857       | 95.45    | None         | No         | 0.01        | NP (NDs)       |
| Lithium (mg/L)                    | BAW-3        | 0.005         | 0.00322       | 0.04        | No 23         | 0.004302      | 0.001273        | 60.87    | None         | No         | 0.01        | NP (NDs)       |
| Lithium (mg/L)                    | BAW-4        | 0.02619       | 0.0179        | 0.04        | No 23         | 0.02205       | 0.007931        | 0        | None         | No         | 0.01        | Param.         |
| <b>Lithium (mg/L)</b>             | <b>BAW-5</b> | <b>0.1861</b> | <b>0.1409</b> | <b>0.04</b> | <b>Yes 23</b> | <b>0.1568</b> | <b>0.05267</b>  | <b>0</b> | <b>None</b>  | <b>x^2</b> | <b>0.01</b> | <b>Param.</b>  |
| Lithium (mg/L)                    | BAW-7        | 0.00555       | 0.00375       | 0.04        | No 23         | 0.005011      | 0.002265        | 52.17    | None         | No         | 0.01        | NP (NDs)       |
| Mercury (mg/L)                    | BAW-3        | 0.000497      | 0.00013       | 0.002       | No 19         | 0.0002058     | 0.0000767184.21 | None     | None         | No         | 0.01        | NP (NDs)       |
| Mercury (mg/L)                    | BAW-4        | 0.0002        | 0.00013       | 0.002       | No 19         | 0.0001896     | 0.0000324889.47 | None     | None         | No         | 0.01        | NP (NDs)       |
| Mercury (mg/L)                    | BAW-5        | 0.0002        | 0.000074      | 0.002       | No 19         | 0.0001934     | 0.0000289194.74 | None     | None         | No         | 0.01        | NP (NDs)       |
| Mercury (mg/L)                    | BAW-7        | 0.000235      | 0.000151      | 0.002       | No 19         | 0.0002451     | 0.0002335       | 78.95    | None         | No         | 0.01        | NP (NDs)       |
| Molybdenum (mg/L)                 | BAW-4        | 0.005         | 0.00109       | 0.1         | No 21         | 0.003945      | 0.001773        | 71.43    | None         | No         | 0.01        | NP (NDs)       |
| Molybdenum (mg/L)                 | BAW-5        | 0.003795      | 0.001596      | 0.1         | No 21         | 0.006532      | 0.00579         | 28.57    | Kaplan-Meier | x^(1/3)    | 0.01        | Param.         |
| Molybdenum (mg/L)                 | BAW-7        | 0.005         | 0.0038        | 0.1         | No 21         | 0.004943      | 0.0002619       | 95.24    | Kaplan-Meier | No         | 0.01        | NP (NDs)       |
| Selenium (mg/L)                   | BAW-3        | 0.005         | 0.00041       | 0.05        | No 21         | 0.003494      | 0.002186        | 66.67    | None         | No         | 0.01        | NP (NDs)       |
| Selenium (mg/L)                   | BAW-5        | 0.005         | 0.00033       | 0.05        | No 21         | 0.004778      | 0.001019        | 95.24    | None         | No         | 0.01        | NP (NDs)       |
| Selenium (mg/L)                   | BAW-7        | 0.005         | 0.0021        | 0.05        | No 21         | 0.003966      | 0.001929        | 76.19    | None         | No         | 0.01        | NP (NDs)       |
| Thallium (mg/L)                   | BAW-3        | 0.001         | 0.000276      | 0.002       | No 21         | 0.0008388     | 0.0003423       | 80.95    | None         | No         | 0.01        | NP (NDs)       |
| Thallium (mg/L)                   | BAW-7        | 0.001         | 0.000153      | 0.002       | No 21         | 0.0009597     | 0.0001848       | 95.24    | None         | No         | 0.01        | NP (NDs)       |

### Parametric and Non-Parametric (NP) Confidence Interval

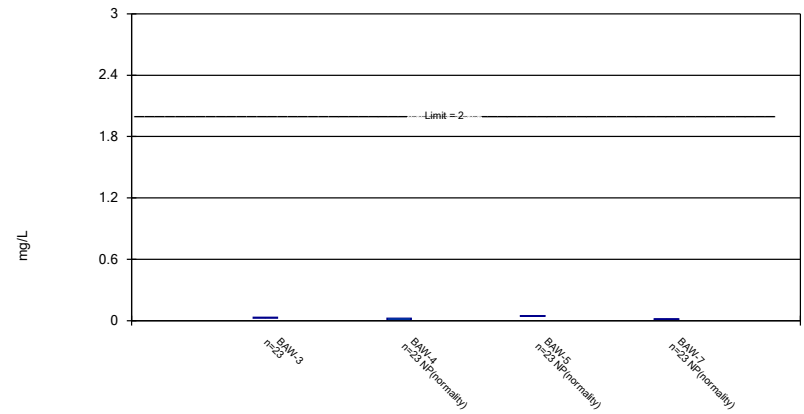
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 12/8/2023 8:53 AM View: Appendix IV  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Parametric and Non-Parametric (NP) Confidence Interval

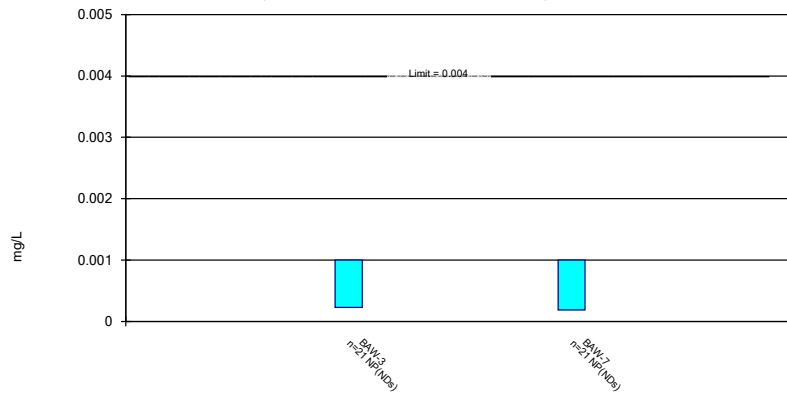
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 12/8/2023 8:53 AM View: Appendix IV  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Non-Parametric Confidence Interval

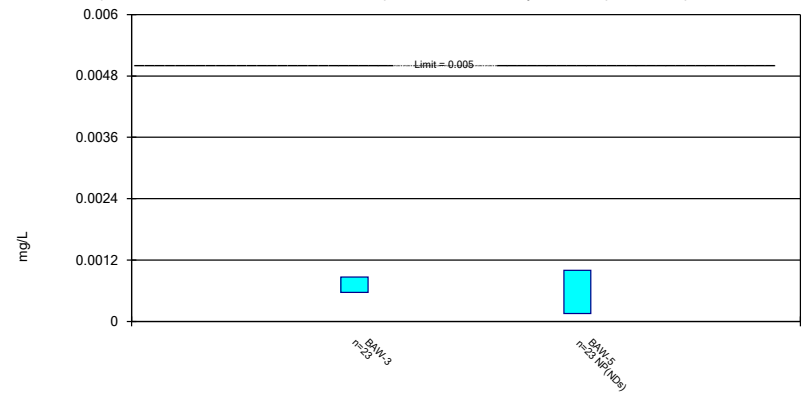
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium Analysis Run 12/8/2023 8:53 AM View: Appendix IV  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Parametric and Non-Parametric (NP) Confidence Interval

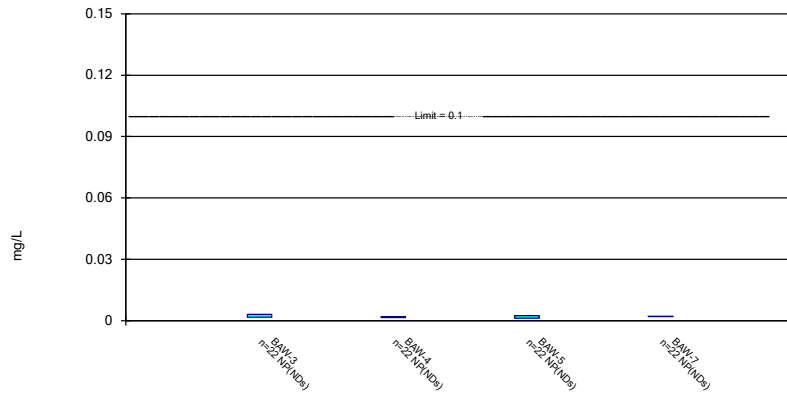
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 12/8/2023 8:53 AM View: Appendix IV  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Non-Parametric Confidence Interval

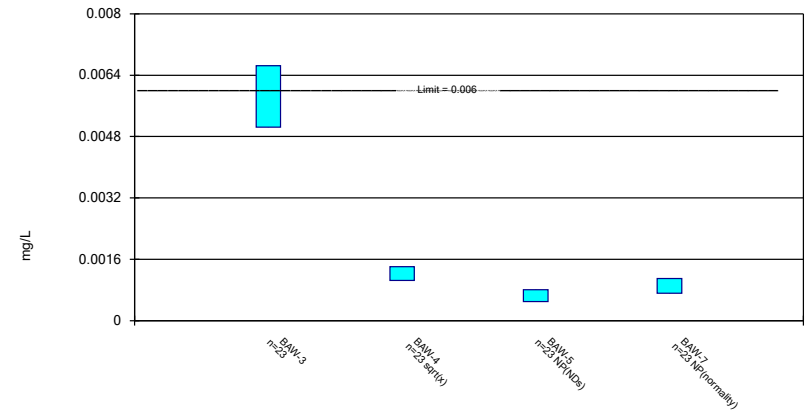
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 12/8/2023 8:53 AM View: Appendix IV  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Parametric and Non-Parametric (NP) Confidence Interval

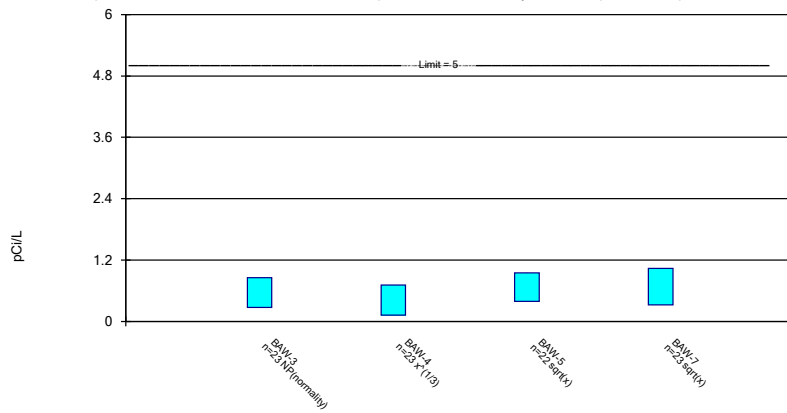
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 12/8/2023 8:53 AM View: Appendix IV  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Parametric and Non-Parametric (NP) Confidence Interval

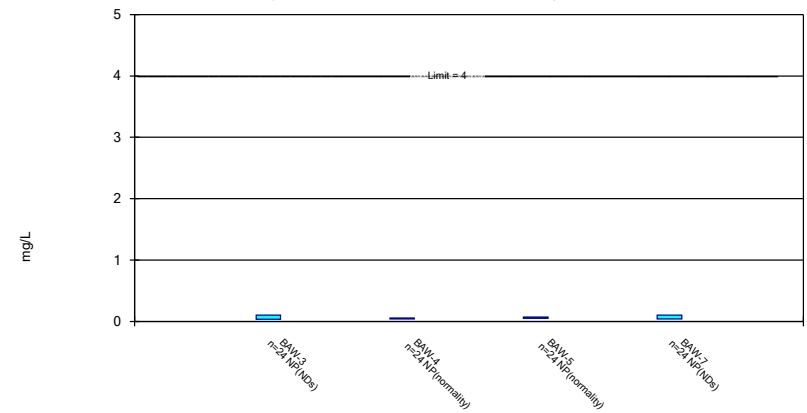
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 12/8/2023 8:53 AM View: Appendix IV  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Non-Parametric Confidence Interval

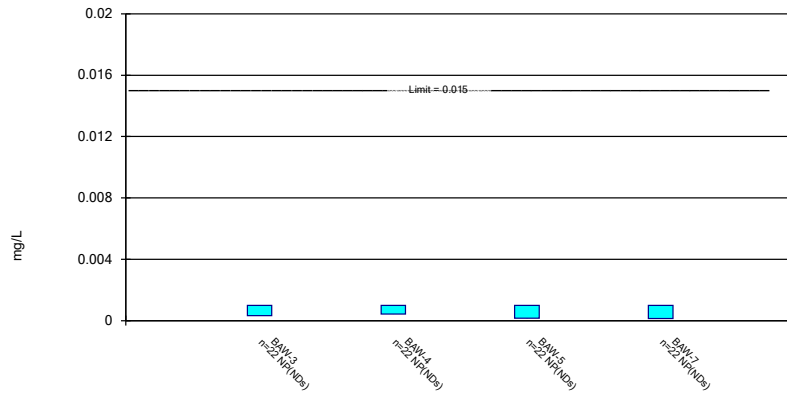
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Fluoride Analysis Run 12/8/2023 8:53 AM View: Appendix IV  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Non-Parametric Confidence Interval

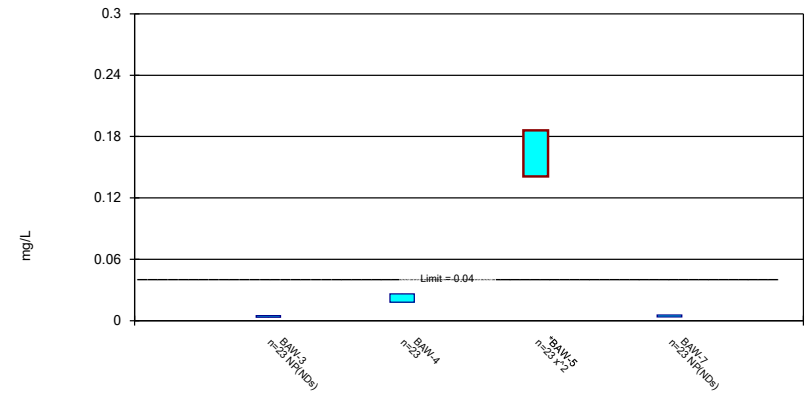
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 12/8/2023 8:53 AM View: Appendix IV  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Parametric and Non-Parametric (NP) Confidence Interval

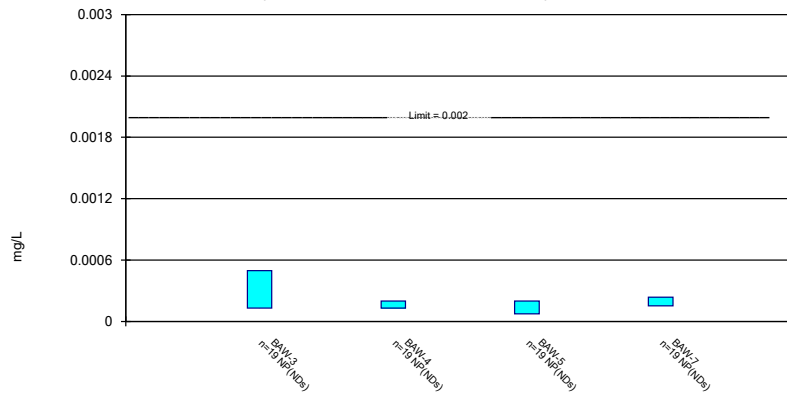
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 12/8/2023 8:53 AM View: Appendix IV  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Non-Parametric Confidence Interval

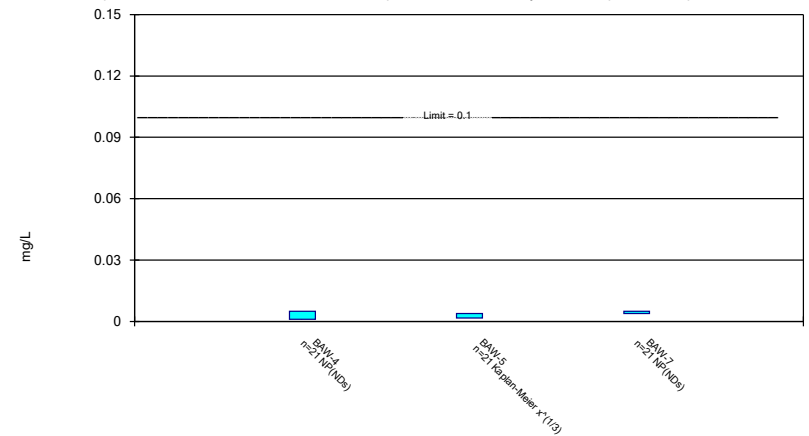
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 12/8/2023 8:53 AM View: Appendix IV  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Parametric and Non-Parametric (NP) Confidence Interval

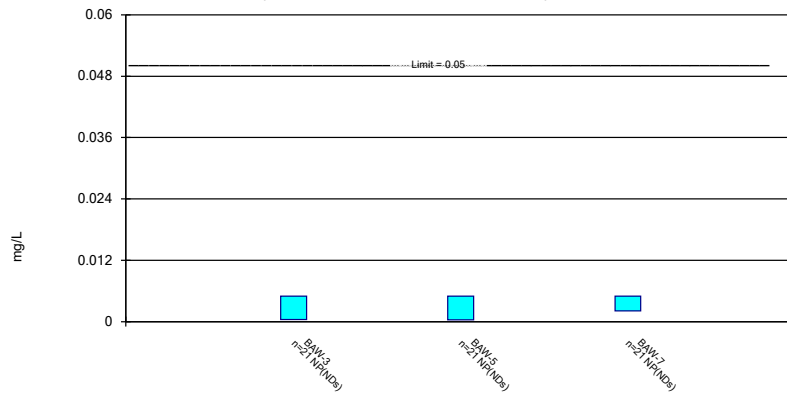
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 12/8/2023 8:53 AM View: Appendix IV  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Non-Parametric Confidence Interval

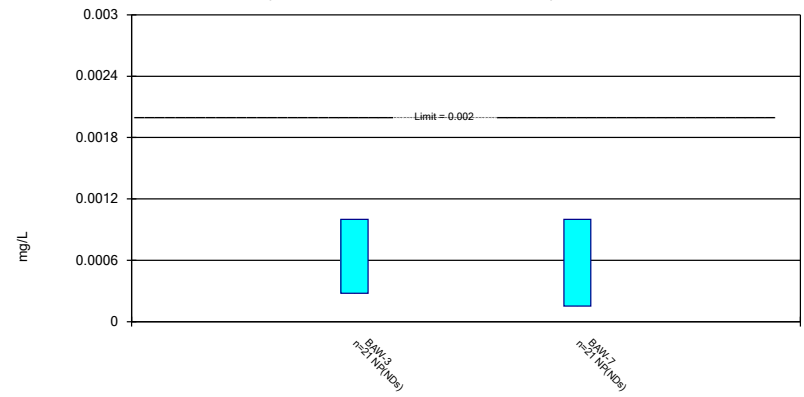
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 12/8/2023 8:53 AM View: Appendix IV  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 12/8/2023 8:53 AM View: Appendix IV  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 12/8/2023 8:55 AM View: Appendix IV

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-4        | BAW-5       | BAW-7       |
|------------|--------------|-------------|-------------|
| 3/23/2016  | 0.00087 (J)  | 0.0033      | <0.001      |
| 5/17/2016  | <0.0013      | 0.00089 (J) | <0.001      |
| 7/12/2016  |              |             | <0.001      |
| 7/13/2016  | 0.00081 (J)  | 0.0039      |             |
| 9/13/2016  |              | 0.0039      | <0.001      |
| 9/14/2016  | 0.00069 (J)  |             |             |
| 11/19/2016 | 0.0013       | 0.0037      | 0.0005 (J)  |
| 1/17/2017  |              |             | <0.001      |
| 1/18/2017  | <0.0013      | 0.0016      |             |
| 3/22/2017  |              |             | 0.00052 (J) |
| 3/23/2017  | 0.00078 (J)  | 0.0017      |             |
| 5/24/2017  | 0.001 (J)    | 0.0021      | <0.001      |
| 3/28/2018  | <0.0013      | 0.0011 (J)  |             |
| 3/29/2018  |              |             | <0.001      |
| 6/2/2018   | 0.00068 (J)  | 0.0017      | <0.001      |
| 11/8/2018  | <0.0013      |             |             |
| 11/9/2018  |              | 0.0021      | <0.001      |
| 2/11/2019  | 0.000737 (J) | 0.00232     |             |
| 2/12/2019  |              |             | <0.001      |
| 4/17/2019  | 0.000645 (J) | 0.00218     |             |
| 4/18/2019  |              |             | <0.001      |
| 9/27/2019  |              |             | <0.001      |
| 9/30/2019  | 0.000821 (J) | 0.00272     |             |
| 2/21/2020  |              |             | <0.001      |
| 2/22/2020  | 0.000837 (J) | 0.00177     |             |
| 4/14/2020  | 0.000896 (J) | 0.00177     | <0.001      |
| 10/30/2020 | 0.000529 (J) | 0.0013      |             |
| 11/2/2020  |              |             | <0.001      |
| 3/17/2021  | 0.000454 (J) | 0.00385     |             |
| 3/26/2021  |              |             | <0.001      |
| 10/5/2021  | 0.00259      |             | <0.001      |
| 10/6/2021  |              | 0.0125      |             |
| 3/16/2022  | 0.00411      | 0.0101      | <0.001      |
| 10/5/2022  | 0.00467      |             |             |
| 10/6/2022  |              | 0.0108      | <0.001      |
| 4/21/2023  | 0.00477      | 0.00683     | <0.001      |
| 10/24/2023 |              |             | <0.001      |
| 10/25/2023 | 0.00241      | 0.00575     |             |
| Mean       | 0.001513     | 0.003821    | 0.0009574   |
| Std. Dev.  | 0.001303     | 0.003257    | 0.0001412   |
| Upper Lim. | 0.00152      | 0.004632    | 0.001       |
| Lower Lim. | 0.000741     | 0.002047    | 0.00052     |

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 12/8/2023 8:55 AM View: Appendix IV

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-3    | BAW-4       | BAW-5   | BAW-7   |
|------------|----------|-------------|---------|---------|
| 3/23/2016  | 0.013    | 0.011       | 0.044   | 0.013   |
| 5/17/2016  |          | 0.0085      | 0.055   | 0.012   |
| 5/18/2016  | 0.012    |             |         |         |
| 7/12/2016  |          |             |         | 0.011   |
| 7/13/2016  | 0.016    | 0.0073      | 0.041   |         |
| 9/13/2016  |          |             | 0.046   | 0.012   |
| 9/14/2016  | 0.018    | 0.0095      |         |         |
| 11/19/2016 | 0.021    | 0.012       | 0.044   | 0.012   |
| 1/17/2017  | 0.029    |             |         | 0.014   |
| 1/18/2017  |          | 0.0096      | 0.045   |         |
| 3/22/2017  |          |             |         | 0.012   |
| 3/23/2017  | 0.024    | 0.0093      | 0.038   |         |
| 5/24/2017  | 0.022    | 0.0096      | 0.046   | 0.012   |
| 3/28/2018  | 0.026    | 0.0086      | 0.043   |         |
| 3/29/2018  |          |             |         | 0.011   |
| 6/2/2018   | 0.029    | 0.0087      | 0.043   | 0.011   |
| 11/8/2018  | 0.028    | 0.0091      |         |         |
| 11/9/2018  |          |             | 0.039   | 0.011   |
| 2/11/2019  |          | 0.00931     | 0.0388  |         |
| 2/12/2019  | 0.0274   |             |         | 0.0102  |
| 4/17/2019  | 0.0263   | 0.00888     | 0.0378  |         |
| 4/18/2019  |          |             |         | 0.0101  |
| 9/27/2019  |          |             |         | 0.0121  |
| 9/30/2019  | 0.0343   | 0.0103      | 0.0424  |         |
| 2/21/2020  | 0.0304   |             |         | 0.0117  |
| 2/22/2020  |          | 0.0108      | 0.0453  |         |
| 4/14/2020  | 0.0335   | 0.00949 (J) | 0.0452  | 0.0124  |
| 10/30/2020 | 0.0349   | 0.0116      | 0.0428  |         |
| 11/2/2020  |          |             |         | 0.0117  |
| 3/17/2021  |          | 0.0224      | 0.0382  |         |
| 3/26/2021  | 0.0253   |             |         | 0.0184  |
| 10/5/2021  |          | 0.0283      |         | 0.02    |
| 10/6/2021  | 0.03     |             | 0.0493  |         |
| 3/16/2022  | 0.037    | 0.0326      | 0.0688  | 0.0245  |
| 10/5/2022  | 0.0415   | 0.0248      |         |         |
| 10/6/2022  |          |             | 0.0747  | 0.0937  |
| 4/20/2023  | 0.0369   |             |         |         |
| 4/21/2023  |          | 0.0223      | 0.103   | 0.0355  |
| 10/24/2023 |          |             |         | 0.0274  |
| 10/25/2023 | 0.0427   | 0.0221      | 0.0883  |         |
| Mean       | 0.02775  | 0.01374     | 0.05037 | 0.0182  |
| Std. Dev.  | 0.008331 | 0.007445    | 0.01706 | 0.01765 |
| Upper Lim. | 0.03211  | 0.0221      | 0.0493  | 0.0184  |
| Lower Lim. | 0.02339  | 0.0091      | 0.041   | 0.011   |

# Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 12/8/2023 8:55 AM View: Appendix IV

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-3        | BAW-7        |
|------------|--------------|--------------|
| 3/23/2016  | <0.001       | <0.001       |
| 5/17/2016  |              | <0.001       |
| 5/18/2016  | <0.001       |              |
| 7/12/2016  |              | <0.001       |
| 7/13/2016  | <0.001       |              |
| 9/13/2016  |              | <0.001       |
| 9/14/2016  | <0.001       |              |
| 11/19/2016 | <0.001       | <0.001       |
| 1/17/2017  | <0.001       | <0.001       |
| 3/22/2017  |              | <0.001       |
| 3/23/2017  | <0.001       |              |
| 5/24/2017  | <0.001       | <0.001       |
| 3/28/2018  | <0.001       |              |
| 3/29/2018  |              | <0.001       |
| 11/8/2018  | <0.001       |              |
| 11/9/2018  |              | <0.001       |
| 2/12/2019  | <0.001       | <0.001       |
| 4/17/2019  | <0.001       |              |
| 4/18/2019  |              | <0.001       |
| 2/21/2020  | <0.001       | <0.001       |
| 4/14/2020  | <0.001       | <0.001       |
| 10/30/2020 | <0.001       |              |
| 11/2/2020  |              | <0.001       |
| 3/26/2021  | <0.001       | <0.001       |
| 10/5/2021  |              | 0.000185 (J) |
| 10/6/2021  | <0.001       |              |
| 3/16/2022  | <0.001       | <0.001       |
| 10/5/2022  | <0.001       |              |
| 10/6/2022  |              | <0.001       |
| 4/20/2023  | 0.000225 (J) |              |
| 4/21/2023  |              | <0.001       |
| 10/24/2023 |              | <0.001       |
| 10/25/2023 | 0.000225 (J) |              |
| Mean       | 0.0009262    | 0.0009612    |
| Std. Dev.  | 0.0002331    | 0.0001778    |
| Upper Lim. | 0.001        | 0.001        |
| Lower Lim. | 0.000225     | 0.000185     |



# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 12/8/2023 8:55 AM View: Appendix IV

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-3        | BAW-5        |
|------------|--------------|--------------|
| 3/23/2016  | 0.00041 (J)  | <0.001       |
| 5/17/2016  |              | <0.001       |
| 5/18/2016  | <0.0025      |              |
| 7/13/2016  | 0.00087 (J)  | <0.001       |
| 9/13/2016  |              | <0.001       |
| 9/14/2016  | 0.00078 (J)  |              |
| 11/19/2016 | 0.00054 (J)  | <0.001       |
| 1/17/2017  | 0.00048 (J)  |              |
| 1/18/2017  |              | <0.001       |
| 3/23/2017  | 0.00059 (J)  | <0.001       |
| 5/24/2017  | 0.00081 (J)  | <0.001       |
| 3/28/2018  | 0.0008 (J)   | <0.001       |
| 6/2/2018   | 0.001 (J)    | <0.001       |
| 11/8/2018  | 0.00085 (J)  |              |
| 11/9/2018  |              | <0.001       |
| 2/11/2019  |              | <0.001       |
| 2/12/2019  | 0.000877 (J) |              |
| 4/17/2019  | 0.000915 (J) | <0.001       |
| 9/30/2019  | 0.00112 (J)  | 0.000155 (J) |
| 2/21/2020  | 0.000962 (J) |              |
| 2/22/2020  |              | <0.001       |
| 4/14/2020  | 0.00107 (J)  | <0.001       |
| 10/30/2020 | 0.00084 (J)  | <0.001       |
| 3/17/2021  |              | <0.001       |
| 3/26/2021  | 0.000615 (J) |              |
| 10/6/2021  | 0.000338 (J) | <0.001       |
| 3/16/2022  | 0.000252 (J) | <0.001       |
| 10/5/2022  | 0.000379 (J) |              |
| 10/6/2022  |              | <0.001       |
| 4/20/2023  | 0.0004 (J)   |              |
| 4/21/2023  |              | <0.001       |
| 10/25/2023 | 0.00035 (J)  | <0.001       |
| Mean       | 0.0007173    | 0.0009633    |
| Std. Dev.  | 0.0002836    | 0.0001762    |
| Upper Lim. | 0.0008656    | 0.001        |
| Lower Lim. | 0.000569     | 0.000155     |

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 12/8/2023 8:55 AM View: Appendix IV

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-3       | BAW-4      | BAW-5      | BAW-7       |
|------------|-------------|------------|------------|-------------|
| 3/23/2016  | <0.002      | 0.0015 (J) | 0.0012 (J) | <0.002      |
| 5/17/2016  |             | <0.002     | <0.002     | <0.002      |
| 5/18/2016  | <0.002      |            |            |             |
| 7/12/2016  |             |            |            | <0.002      |
| 7/13/2016  | 0.003       | 0.0015 (J) | 0.0024 (J) |             |
| 9/13/2016  |             |            | <0.002     | <0.002      |
| 9/14/2016  | <0.002      | <0.002     |            |             |
| 11/19/2016 | <0.002      | 0.0011 (J) | <0.002     | <0.002      |
| 1/17/2017  | <0.002      |            |            | <0.002      |
| 1/18/2017  |             | <0.002     | <0.002     |             |
| 3/22/2017  |             |            |            | <0.002      |
| 3/23/2017  | <0.002      | <0.002     | <0.002     |             |
| 5/24/2017  | <0.002      | <0.002     | <0.002     | <0.002      |
| 3/28/2018  | <0.002      | <0.002     | 0.005      |             |
| 3/29/2018  |             |            |            | <0.002      |
| 6/2/2018   | <0.002      | <0.002     | <0.002     | <0.002      |
| 11/8/2018  | <0.002      | <0.002     |            |             |
| 11/9/2018  |             |            | <0.002     | <0.002      |
| 2/11/2019  |             | <0.002     | <0.002     |             |
| 2/12/2019  | 0.00165 (J) |            |            | <0.002      |
| 4/17/2019  | <0.002      | <0.002     | <0.002     |             |
| 4/18/2019  |             |            |            | <0.002      |
| 9/27/2019  |             |            |            | 0.00206 (J) |
| 9/30/2019  | <0.002      | <0.002     | <0.002     |             |
| 2/21/2020  | <0.002      |            |            | <0.002      |
| 2/22/2020  |             | <0.002     | <0.002     |             |
| 10/30/2020 | <0.002      | <0.002     | <0.002     |             |
| 11/2/2020  |             |            |            | <0.002      |
| 3/17/2021  |             | <0.002     | <0.002     |             |
| 3/26/2021  | <0.002      |            |            | <0.002      |
| 10/5/2021  |             | <0.002     |            | <0.002      |
| 10/6/2021  | <0.002      |            | <0.002     |             |
| 3/16/2022  | <0.002      | <0.002     | <0.002     | <0.002      |
| 10/5/2022  | 0.0191      | <0.002     |            |             |
| 10/6/2022  |             |            | <0.002     | <0.002      |
| 4/20/2023  | <0.002      |            |            |             |
| 4/21/2023  |             | <0.002     | <0.002     | <0.002      |
| 10/24/2023 |             |            |            | <0.002      |
| 10/25/2023 | <0.002      | <0.002     | <0.002     |             |
| Mean       | 0.002807    | 0.001914   | 0.002118   | 0.002003    |
| Std. Dev.  | 0.003646    | 0.0002336  | 0.0006723  | 1.279E-05   |
| Upper Lim. | 0.003       | 0.002      | 0.0024     | 0.00206     |
| Lower Lim. | 0.00165     | 0.0015     | 0.0012     | 0.002       |

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 12/8/2023 8:55 AM View: Appendix IV

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-3    | BAW-4        | BAW-5       | BAW-7        |
|------------|----------|--------------|-------------|--------------|
| 3/23/2016  | 0.0055   | 0.00094 (J)  | <0.0005     | 0.0011 (J)   |
| 5/17/2016  |          | 0.0007 (J)   | <0.0005     | 0.001 (J)    |
| 5/18/2016  | 0.0059   |              |             |              |
| 7/12/2016  |          |              |             | 0.00091 (J)  |
| 7/13/2016  | 0.0048   | 0.0016 (J)   | 0.00042 (J) |              |
| 9/13/2016  |          |              | <0.0005     | 0.001 (J)    |
| 9/14/2016  | 0.0063   | 0.0011 (J)   |             |              |
| 11/19/2016 | 0.0056   | 0.0012 (J)   | <0.0005     | 0.00083 (J)  |
| 1/17/2017  | 0.0046   |              |             | 0.00091 (J)  |
| 1/18/2017  |          | 0.0011 (J)   | <0.0005     |              |
| 3/22/2017  |          |              |             | 0.00098 (J)  |
| 3/23/2017  | 0.0049   | 0.0011 (J)   | <0.0005     |              |
| 5/24/2017  | 0.0052   | 0.0012 (J)   | <0.0005     | 0.00098 (J)  |
| 3/28/2018  | 0.0063   | 0.00095 (J)  | <0.0005     |              |
| 3/29/2018  |          |              |             | 0.00063 (J)  |
| 6/2/2018   | 0.0068   | 0.0012 (J)   | <0.0005     | 0.00087 (J)  |
| 11/8/2018  | 0.0068   | 0.0011 (J)   |             |              |
| 11/9/2018  |          |              | <0.0005     | 0.00076 (J)  |
| 2/11/2019  |          | 0.00093 (J)  | <0.0005     |              |
| 2/12/2019  | 0.00552  |              |             | 0.000661 (J) |
| 4/17/2019  | 0.00603  | 0.00116 (J)  | <0.0005     |              |
| 4/18/2019  |          |              |             | 0.000705 (J) |
| 9/27/2019  |          |              |             | 0.00071 (J)  |
| 9/30/2019  | 0.0062   | 0.001 (J)    | <0.0005     |              |
| 2/21/2020  | 0.00576  |              |             | 0.000634 (J) |
| 2/22/2020  |          | 0.000907 (J) | <0.0005     |              |
| 4/14/2020  | 0.00633  | 0.00105 (J)  | <0.0005     | 0.000684 (J) |
| 10/30/2020 | 0.00657  | 0.00102 (J)  | <0.0005     |              |
| 11/2/2020  |          |              |             | 0.000729 (J) |
| 3/17/2021  |          | 0.00208      | <0.0005     |              |
| 3/26/2021  | 0.00339  |              |             | 0.000995     |
| 10/5/2021  |          | 0.00187      |             | 0.00112      |
| 10/6/2021  | 0.00336  |              | 0.000802    |              |
| 3/16/2022  | 0.00289  | 0.00182      | 0.000967    | 0.00141      |
| 10/5/2022  | 0.00821  | 0.00121      |             |              |
| 10/6/2022  |          |              | 0.00143     | 0.00548      |
| 4/20/2023  | 0.0083   |              |             |              |
| 4/21/2023  |          | 0.00142      | 0.00275     | 0.00216      |
| 10/24/2023 |          |              |             | 0.00143      |
| 10/25/2023 | 0.0092   | 0.00187      | 0.000885    |              |
| Mean       | 0.005846 | 0.00124      | 0.000685    | 0.00116      |
| Std. Dev.  | 0.001526 | 0.0003633    | 0.0005047   | 0.001001     |
| Upper Lim. | 0.006644 | 0.001404     | 0.000802    | 0.0011       |
| Lower Lim. | 0.005048 | 0.001044     | 0.0005      | 0.00071      |

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/8/2023 8:55 AM View: Appendix IV

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-3       | BAW-4       | BAW-5      | BAW-7       |
|------------|-------------|-------------|------------|-------------|
| 3/23/2016  | <5          | <5          | 0.549      | <5          |
| 5/17/2016  |             | <5          | 0.551      | <5          |
| 5/18/2016  | <5          |             |            |             |
| 7/12/2016  |             |             |            | 0.165 (U)   |
| 7/13/2016  | 0.27 (U)    | 0.0365 (U)  | 0.859      |             |
| 9/13/2016  |             |             | 0.367 (U)  | 0.341 (U)   |
| 9/14/2016  | -0.0909 (U) | 0.3 (U)     |            |             |
| 11/19/2016 | 0.416       | <5 (U)      | <5 (U)     | <5 (U)      |
| 1/17/2017  | 0.412 (U)   |             |            | 0.124 (U)   |
| 1/18/2017  |             | 0.235 (U)   | 0.289 (U)  |             |
| 3/22/2017  |             |             |            | 0.0719 (U)  |
| 3/23/2017  | 0.0761 (U)  | 0.168 (U)   | 0.554      |             |
| 5/24/2017  | 0.0415 (U)  | -0.0607 (U) | 0.831      | 0.441       |
| 3/28/2018  | 0.398       | 0.42        | 0.458      |             |
| 3/29/2018  |             |             |            | 0.731       |
| 6/2/2018   | -0.253 (U)  | 0.0844 (U)  | 0.226 (U)  | 0.303 (U)   |
| 11/8/2018  | 0.343 (U)   | 0.367 (U)   |            |             |
| 11/9/2018  |             |             | 0.298 (U)  | 0.00226 (U) |
| 2/11/2019  |             | 0.0402 (U)  | 0.15 (U)   |             |
| 2/12/2019  | 0.581       |             |            | 0.094 (U)   |
| 4/17/2019  | 0.646       | 0.493       | 0.326 (U)  |             |
| 4/18/2019  |             |             |            | 0.48        |
| 9/27/2019  |             |             |            | 0.497       |
| 9/30/2019  | 1           | 0.404       |            |             |
| 2/21/2020  | 0.126 (U)   |             |            | 0.375       |
| 2/22/2020  |             | 0.53        | 0.47       |             |
| 4/14/2020  | 0.338       | 0.0408 (U)  | 0.376 (U)  | 0.329 (U)   |
| 10/30/2020 | 0.485       | 0.344       | 0.528      |             |
| 11/2/2020  |             |             |            | 0.535       |
| 3/17/2021  |             | 0.312 (U)   | 0.0889 (U) |             |
| 3/26/2021  | 0.78        |             |            | 0.813       |
| 10/5/2021  |             | 1.06        |            | 0.814       |
| 10/6/2021  | 0.503       |             | 0.931      |             |
| 3/16/2022  | 0.286 (U)   | 0.314 (U)   | 1.39       | 1.39        |
| 10/21/2022 | 1.29        | 0.562 (U)   | 1.36       | 2.03        |
| 4/20/2023  | 0.884       |             |            |             |
| 4/21/2023  |             | 0.158 (U)   | 1.73       | 0.802       |
| 10/24/2023 |             |             |            | 0.7         |
| 10/25/2023 | 0.857       | 0.472 (U)   | 1.49       |             |
| Mean       | 0.6256      | 0.5991      | 0.7419     | 0.806       |
| Std. Dev.  | 0.6913      | 0.7886      | 0.6051     | 0.8069      |
| Upper Lim. | 0.857       | 0.7137      | 0.9508     | 1.037       |
| Lower Lim. | 0.27        | 0.1233      | 0.3924     | 0.3219      |

# Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 12/8/2023 8:55 AM View: Appendix IV

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-3      | BAW-4      | BAW-5      | BAW-7      |
|------------|------------|------------|------------|------------|
| 3/23/2016  | <0.1       | 0.04 (J)   | 0.06 (J)   | <0.1       |
| 5/17/2016  |            | 0.04 (J)   | 0.07 (J)   | <0.1       |
| 5/18/2016  | <0.1       |            |            |            |
| 7/12/2016  |            |            |            | <0.1       |
| 7/13/2016  | <0.1       | 0.05 (J)   | 0.08 (J)   |            |
| 9/13/2016  |            |            | 0.06 (J)   | <0.1       |
| 9/14/2016  | <0.1       | 0.04 (J)   |            |            |
| 11/19/2016 | <0.1       | 0.04 (J)   | 0.06 (J)   | <0.1       |
| 1/17/2017  | <0.1       |            |            | <0.1       |
| 1/18/2017  |            | <0.1       | 0.05 (J)   |            |
| 3/22/2017  |            |            |            | <0.1       |
| 3/23/2017  | <0.1       | <0.1       | 0.05 (J)   |            |
| 5/24/2017  | <0.1       | 0.04 (J)   | 0.06 (J)   | <0.1 (D)   |
| 10/16/2017 | <0.1       | <0.1       | 0.06 (J)   | <0.1       |
| 3/28/2018  | <0.1       | 0.04 (J)   | 0.06 (J)   |            |
| 3/29/2018  |            |            |            | <0.1       |
| 6/2/2018   | <0.1       | 0.05 (J)   | 0.06 (J)   | <0.1       |
| 11/8/2018  | <0.1       | 0.05 (J)   |            |            |
| 11/9/2018  |            |            | 0.06 (J)   | <0.1       |
| 2/11/2019  |            | <0.1       | 0.0368 (J) |            |
| 2/12/2019  | <0.1       |            |            | <0.1       |
| 4/17/2019  | <0.1       | 0.033 (J)  | 0.0421 (J) |            |
| 4/18/2019  |            |            |            | <0.1       |
| 9/27/2019  |            |            |            | <0.1       |
| 9/30/2019  | <0.1       | <0.1       | 0.045 (J)  |            |
| 2/21/2020  | <0.1       |            |            | <0.1       |
| 2/22/2020  |            | 0.0317 (J) | 0.0434 (J) |            |
| 4/14/2020  | 0.034 (J)  | 0.0508 (J) | 0.059 (J)  | 0.0415 (J) |
| 10/30/2020 | <0.1       | <0.1       | <0.1       |            |
| 11/2/2020  |            |            |            | <0.1       |
| 3/17/2021  |            | 0.0544 (J) | 0.0575 (J) |            |
| 3/26/2021  | <0.1       |            |            | <0.1       |
| 10/5/2021  |            | 0.0505 (J) |            | <0.1       |
| 10/6/2021  | <0.1       |            | 0.0725 (J) |            |
| 3/16/2022  | 0.0307 (J) | 0.0462 (J) | 0.176      | 0.0266 (J) |
| 10/5/2022  | <0.1       | 0.0322 (J) |            |            |
| 10/6/2022  |            |            | 0.0972 (J) | <0.1       |
| 4/20/2023  | <0.1       |            |            |            |
| 4/21/2023  |            | 0.0441 (J) | 0.0665 (J) | <0.1       |
| 10/24/2023 |            |            |            | <0.1       |
| 10/25/2023 | <0.1       | 0.0393 (J) | 0.0858 (J) |            |
| Mean       | 0.09436    | 0.05718    | 0.06508    | 0.0945     |
| Std. Dev.  | 0.01911    | 0.02595    | 0.02739    | 0.01875    |
| Upper Lim. | 0.1        | 0.0544     | 0.07       | 0.1        |
| Lower Lim. | 0.034      | 0.04       | 0.05       | 0.0415     |

# Confidence Interval

Constituent: Lead (mg/L) Analysis Run 12/8/2023 8:55 AM View: Appendix IV

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-3        | BAW-4        | BAW-5        | BAW-7        |
|------------|--------------|--------------|--------------|--------------|
| 3/23/2016  | <0.001       | 0.00039 (J)  | <0.001       | <0.001       |
| 5/17/2016  |              | <0.001       | <0.001       | <0.001       |
| 5/18/2016  | <0.001       |              |              |              |
| 7/12/2016  |              |              |              | <0.001       |
| 7/13/2016  | <0.001       | <0.001       | <0.001       |              |
| 9/13/2016  |              |              | <0.001       | <0.001       |
| 9/14/2016  | 0.00056 (J)  | <0.001       |              |              |
| 11/19/2016 | <0.001       | 0.00042 (J)  | <0.001       | <0.001       |
| 1/17/2017  | <0.001       |              |              | <0.001       |
| 1/18/2017  |              | <0.001       | <0.001       |              |
| 3/22/2017  |              |              |              | <0.001       |
| 3/23/2017  | 0.00038 (J)  | <0.001       | <0.001       |              |
| 5/24/2017  | 0.00036 (J)  | <0.001       | <0.001       | <0.001       |
| 3/28/2018  | <0.001       | <0.001       | <0.001       |              |
| 3/29/2018  |              |              |              | <0.001       |
| 11/8/2018  | <0.001       | <0.001       |              |              |
| 11/9/2018  |              |              | <0.001       | <0.001       |
| 2/11/2019  |              | <0.001       | <0.001       |              |
| 2/12/2019  | 0.000139 (J) |              |              | <0.001       |
| 4/17/2019  | <0.001       | <0.001       | <0.001       |              |
| 4/18/2019  |              |              |              | <0.001       |
| 9/27/2019  |              |              |              | 0.000129 (J) |
| 9/30/2019  | 0.000322 (J) | 0.000191 (J) | 0.000152 (J) |              |
| 2/21/2020  | 0.00015 (J)  |              |              | <0.001       |
| 2/22/2020  |              | <0.001       | <0.001       |              |
| 4/14/2020  | 0.000236 (J) | <0.001       | <0.001       | <0.001       |
| 10/30/2020 | 0.000136 (J) | <0.001       | <0.001       |              |
| 11/2/2020  |              |              |              | <0.001       |
| 3/17/2021  |              | 0.000153 (J) | <0.001       |              |
| 3/26/2021  | 0.000145 (J) |              |              | <0.001       |
| 10/5/2021  |              | <0.001       |              | <0.001       |
| 10/6/2021  | <0.001       |              | <0.001       |              |
| 3/16/2022  | <0.001       | <0.001       | <0.001       | <0.001       |
| 10/5/2022  | <0.001       | <0.001       |              |              |
| 10/6/2022  |              |              | <0.001       | <0.001       |
| 4/20/2023  | <0.001       |              |              |              |
| 4/21/2023  |              | <0.001       | <0.001       | <0.001       |
| 10/24/2023 |              |              |              | <0.001       |
| 10/25/2023 | <0.001       | <0.001       | <0.001       |              |
| Mean       | 0.0007013    | 0.0008706    | 0.0009615    | 0.0009604    |
| Std. Dev.  | 0.0003785    | 0.0002855    | 0.0001808    | 0.0001857    |
| Upper Lim. | 0.001        | 0.001        | 0.001        | 0.001        |
| Lower Lim. | 0.000322     | 0.00042      | 0.000152     | 0.000129     |

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 12/8/2023 8:55 AM View: Appendix IV

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-3       | BAW-4    | BAW-5   | BAW-7       |
|------------|-------------|----------|---------|-------------|
| 3/23/2016  | <0.005      | 0.044    | 0.17    | <0.005      |
| 5/17/2016  |             | 0.028    | 0.2     | <0.005      |
| 5/18/2016  | <0.005      |          |         |             |
| 7/12/2016  |             |          |         | <0.005      |
| 7/13/2016  | <0.005      | 0.026    | 0.17    |             |
| 9/13/2016  |             |          | 0.17    | <0.005      |
| 9/14/2016  | <0.005      | 0.026    |         |             |
| 11/19/2016 | <0.005      | 0.026    | 0.18    | 0.0035 (J)  |
| 1/17/2017  | <0.005      |          |         | <0.005      |
| 1/18/2017  |             | 0.027    | 0.2     |             |
| 3/22/2017  |             |          |         | <0.005      |
| 3/23/2017  | <0.005      | 0.024    | 0.19    |             |
| 5/24/2017  | <0.005      | 0.027    | 0.21    | <0.005      |
| 3/28/2018  | 0.0023 (J)  | 0.021    | 0.23    |             |
| 3/29/2018  |             |          |         | 0.0026 (J)  |
| 6/2/2018   | 0.002 (J)   | 0.022    | 0.19    | 0.0029 (J)  |
| 11/8/2018  | 0.0024 (J)  | 0.025    |         |             |
| 11/9/2018  |             |          | 0.18    | 0.0027 (J)  |
| 2/11/2019  |             | 0.0229   | 0.161   |             |
| 2/12/2019  | <0.005      |          |         | <0.005      |
| 4/17/2019  | 0.00197 (J) | 0.0236   | 0.174   |             |
| 4/18/2019  |             |          |         | 0.00238 (J) |
| 9/27/2019  |             |          |         | 0.00375 (J) |
| 9/30/2019  | 0.00687     | 0.0249   | 0.166   |             |
| 2/21/2020  | <0.005      |          |         | <0.005      |
| 2/22/2020  |             | 0.0211   | 0.169   |             |
| 4/14/2020  | <0.005      | 0.0224   | 0.192   | <0.005      |
| 10/30/2020 | <0.005      | 0.0267   | 0.194   |             |
| 11/2/2020  |             |          |         | <0.005      |
| 3/17/2021  |             | 0.0174   | 0.12    |             |
| 3/26/2021  | <0.005      |          |         | <0.005      |
| 10/5/2021  |             | 0.0127   |         | 0.0045 (J)  |
| 10/6/2021  | <0.005      |          | 0.0994  |             |
| 3/16/2022  | 0.0038 (J)  | 0.0112   | 0.0629  | 0.00437 (J) |
| 10/5/2022  | 0.00322 (J) | 0.00676  |         |             |
| 10/6/2022  |             |          | 0.0534  | 0.0123      |
| 4/20/2023  | 0.00309 (J) |          |         |             |
| 4/21/2023  |             | 0.0091   | 0.0564  | 0.0107      |
| 10/24/2023 |             |          |         | 0.00555     |
| 10/25/2023 | 0.0033 (J)  | 0.0123   | 0.0679  |             |
| Mean       | 0.004302    | 0.02205  | 0.1568  | 0.005011    |
| Std. Dev.  | 0.001273    | 0.007931 | 0.05267 | 0.002265    |
| Upper Lim. | 0.005       | 0.02619  | 0.1861  | 0.00555     |
| Lower Lim. | 0.00322     | 0.0179   | 0.1409  | 0.00375     |

# Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 12/8/2023 8:55 AM View: Appendix IV

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-3        | BAW-4        | BAW-5        | BAW-7        |
|------------|--------------|--------------|--------------|--------------|
| 3/23/2016  | 8.4E-05 (JB) | 7.3E-05 (JB) | 7.4E-05 (JB) | 7.1E-05 (JB) |
| 5/17/2016  |              | <0.0002      | <0.0002      | <0.0002      |
| 5/18/2016  | <0.0002      |              |              |              |
| 7/12/2016  |              |              |              | <0.0002      |
| 7/13/2016  | <0.0002      | <0.0002      | <0.0002      |              |
| 9/13/2016  |              |              | <0.0002      | <0.0002      |
| 9/14/2016  | <0.0002      | <0.0002      |              |              |
| 11/19/2016 | <0.0002      | <0.0002      | <0.0002      | <0.0002      |
| 1/17/2017  | <0.0002      |              |              | <0.0002      |
| 1/18/2017  |              | <0.0002      | <0.0002      |              |
| 3/22/2017  |              |              |              | <0.0002      |
| 3/23/2017  | 0.00013 (J)  | 0.00013 (J)  | <0.0002      |              |
| 5/24/2017  | <0.0002      | <0.0002      | <0.0002      | <0.0002      |
| 3/28/2018  | <0.0002      | <0.0002      | <0.0002      |              |
| 3/29/2018  |              |              |              | <0.0002      |
| 2/11/2019  |              | <0.0002      | <0.0002      |              |
| 2/12/2019  | <0.0002      |              |              | <0.0002      |
| 4/17/2019  | <0.0002      | <0.0002      | <0.0002      |              |
| 4/18/2019  |              |              |              | <0.0002      |
| 2/21/2020  | <0.0002      |              |              | <0.0002      |
| 2/22/2020  |              | <0.0002      | <0.0002      |              |
| 10/30/2020 | 0.000497     | <0.0002      | <0.0002      |              |
| 11/2/2020  |              |              |              | <0.0002      |
| 3/17/2021  |              | <0.0002      | <0.0002      |              |
| 3/26/2021  | <0.0002      |              |              | 0.000235     |
| 10/5/2021  |              | <0.0002      |              | 0.000151 (J) |
| 10/6/2021  | <0.0002      |              | <0.0002      |              |
| 3/16/2022  | <0.0002      | <0.0002      | <0.0002      | 0.0012       |
| 10/5/2022  | <0.0002      | <0.0002      |              |              |
| 10/6/2022  |              |              | <0.0002      | <0.0002      |
| 4/20/2023  | <0.0002      |              |              |              |
| 4/21/2023  |              | <0.0002      | <0.0002      | <0.0002      |
| 10/24/2023 |              |              |              | <0.0002      |
| 10/25/2023 | <0.0002      | <0.0002      | <0.0002      |              |
| Mean       | 0.0002058    | 0.0001896    | 0.0001934    | 0.0002451    |
| Std. Dev.  | 7.671E-05    | 3.248E-05    | 2.891E-05    | 0.0002335    |
| Upper Lim. | 0.000497     | 0.0002       | 0.0002       | 0.000235     |
| Lower Lim. | 0.00013      | 0.00013      | 7.4E-05      | 0.000151     |



# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 12/8/2023 8:55 AM View: Appendix IV

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-4        | BAW-5        | BAW-7      |
|------------|--------------|--------------|------------|
| 3/23/2016  | <0.005       | 0.0026 (J)   | <0.005     |
| 5/17/2016  | <0.005       | 0.0011 (J)   | <0.005     |
| 7/12/2016  |              |              | <0.005     |
| 7/13/2016  | <0.005       | 0.0079 (J)   |            |
| 9/13/2016  |              | 0.0038 (J)   | <0.005     |
| 9/14/2016  | <0.005       |              |            |
| 11/19/2016 | <0.005       | 0.0014 (J)   | <0.005     |
| 1/17/2017  |              |              | <0.005     |
| 1/18/2017  | <0.005       | 0.001 (J)    |            |
| 3/22/2017  |              |              | 0.0038 (J) |
| 3/23/2017  | <0.005       | <0.015       |            |
| 5/24/2017  | <0.005       | 0.0014 (J)   | <0.005     |
| 3/28/2018  | <0.005       | <0.015       |            |
| 3/29/2018  |              |              | <0.005     |
| 11/8/2018  | <0.005       |              |            |
| 11/9/2018  |              | <0.015       | <0.005     |
| 2/11/2019  | <0.005       | <0.015       |            |
| 2/12/2019  |              |              | <0.005     |
| 4/17/2019  | <0.005       | <0.015       |            |
| 4/18/2019  |              |              | <0.005     |
| 2/21/2020  |              |              | <0.005     |
| 2/22/2020  | 0.000616 (J) | 0.000627 (J) |            |
| 4/14/2020  | <0.005       | 0.000747 (J) | <0.005     |
| 10/30/2020 | <0.005       | <0.015       |            |
| 11/2/2020  |              |              | <0.005     |
| 3/17/2021  | 0.0032 (J)   | 0.00328 (J)  |            |
| 3/26/2021  |              |              | <0.005     |
| 10/5/2021  | 0.00109 (J)  |              | <0.005     |
| 10/6/2021  |              | 0.00364 (J)  |            |
| 3/16/2022  | 0.000916 (J) | 0.00533      | <0.005     |
| 10/5/2022  | 0.000939 (J) |              |            |
| 10/6/2022  |              | 0.00424 (J)  | <0.005     |
| 4/21/2023  | 0.00109 (J)  | 0.00651      | <0.005     |
| 10/24/2023 |              |              | <0.005     |
| 10/25/2023 | <0.005       | 0.0036 (J)   |            |
| Mean       | 0.003945     | 0.006532     | 0.004943   |
| Std. Dev.  | 0.001773     | 0.00579      | 0.0002619  |
| Upper Lim. | 0.005        | 0.003795     | 0.005      |
| Lower Lim. | 0.00109      | 0.001596     | 0.0038     |

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 12/8/2023 8:55 AM View: Appendix IV

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-3       | BAW-5       | BAW-7       |
|------------|-------------|-------------|-------------|
| 3/23/2016  | 0.00033 (J) | <0.005      | <0.005      |
| 5/17/2016  |             | <0.005      | 0.00026 (J) |
| 5/18/2016  | <0.005      |             |             |
| 7/12/2016  |             |             | <0.005      |
| 7/13/2016  | 0.00041 (J) | <0.005      |             |
| 9/13/2016  |             | <0.005      | 0.00031 (J) |
| 9/14/2016  | 0.00079 (J) |             |             |
| 11/19/2016 | <0.005      | <0.005      | <0.005      |
| 1/17/2017  | <0.005      |             | <0.005      |
| 1/18/2017  |             | <0.005      |             |
| 3/22/2017  |             |             | 0.0021      |
| 3/23/2017  | <0.005      | <0.005      |             |
| 5/24/2017  | 0.00028 (J) | 0.00033 (J) | 0.00026 (J) |
| 3/28/2018  | 0.00038 (J) | <0.005      |             |
| 3/29/2018  |             |             | 0.00036 (J) |
| 6/2/2018   | 0.00031 (J) | <0.005      | <0.005      |
| 11/8/2018  | 0.00088 (J) |             |             |
| 11/9/2018  |             | <0.005      | <0.005      |
| 2/11/2019  |             | <0.005      |             |
| 2/12/2019  | <0.005      |             | <0.005      |
| 4/17/2019  | <0.005      | <0.005      |             |
| 4/18/2019  |             |             | <0.005      |
| 2/21/2020  | <0.005      |             | <0.005      |
| 2/22/2020  |             | <0.005      |             |
| 10/30/2020 | <0.005      | <0.005      |             |
| 11/2/2020  |             |             | <0.005      |
| 3/17/2021  |             | <0.005      |             |
| 3/26/2021  | <0.005      |             | <0.005      |
| 10/5/2021  |             |             | <0.005      |
| 10/6/2021  | <0.005      | <0.005      |             |
| 3/16/2022  | <0.005      | <0.005      | <0.005      |
| 10/5/2022  | <0.005      |             |             |
| 10/6/2022  |             | <0.005      | <0.005      |
| 4/20/2023  | <0.005      |             |             |
| 4/21/2023  |             | <0.005      | <0.005      |
| 10/24/2023 |             |             | <0.005      |
| 10/25/2023 | <0.005      | <0.005      |             |
| Mean       | 0.003494    | 0.004778    | 0.003966    |
| Std. Dev.  | 0.002186    | 0.001019    | 0.001929    |
| Upper Lim. | 0.005       | 0.005       | 0.005       |
| Lower Lim. | 0.00041     | 0.00033     | 0.0021      |

# Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 12/8/2023 8:55 AM View: Appendix IV

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

|            | BAW-3        | BAW-7        |
|------------|--------------|--------------|
| 3/23/2016  | <0.001       | <0.001       |
| 5/17/2016  |              | <0.001       |
| 5/18/2016  | <0.001       |              |
| 7/12/2016  |              | <0.001       |
| 7/13/2016  | <0.001       |              |
| 9/13/2016  |              | <0.001       |
| 9/14/2016  | 9.5E-05 (J)  |              |
| 11/19/2016 | <0.001       | <0.001       |
| 1/17/2017  | <0.001       | <0.001       |
| 3/22/2017  |              | <0.001       |
| 3/23/2017  | <0.001       |              |
| 5/24/2017  | <0.001       | <0.001       |
| 3/28/2018  | <0.001       |              |
| 3/29/2018  |              | <0.001       |
| 11/8/2018  | 8.5E-05 (J)  |              |
| 11/9/2018  |              | <0.001       |
| 2/12/2019  | <0.001       | <0.001       |
| 4/17/2019  | <0.001       |              |
| 4/18/2019  |              | <0.001       |
| 2/21/2020  | 0.000276 (J) | <0.001       |
| 4/14/2020  | 0.000158 (J) | <0.001       |
| 10/30/2020 | <0.001       |              |
| 11/2/2020  |              | <0.001       |
| 3/26/2021  | <0.001       | <0.001       |
| 10/5/2021  |              | 0.000153 (J) |
| 10/6/2021  | <0.001       |              |
| 3/16/2022  | <0.001       | <0.001       |
| 10/5/2022  | <0.001       |              |
| 10/6/2022  |              | <0.001       |
| 4/20/2023  | <0.001       |              |
| 4/21/2023  |              | <0.001       |
| 10/24/2023 |              | <0.001       |
| 10/25/2023 | <0.001       |              |
| Mean       | 0.0008388    | 0.0009597    |
| Std. Dev.  | 0.0003423    | 0.0001848    |
| Upper Lim. | 0.001        | 0.001        |
| Lower Lim. | 0.000276     | 0.000153     |

FIGURE I.

# Appendix IV Trend Tests - Confidence Interval Exceedances - Significant Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 11/9/2023, 11:49 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>Alpha</u> | <u>Method</u> |
|--------------------|-------------|--------------|--------------|-----------------|-------------|----------|-------------|------------------|--------------|---------------|
| Lithium (mg/L)     | BAW-5       | -0.01534     | -111         | -76             | Yes         | 23       | 0           | n/a              | 0.05         | NP            |

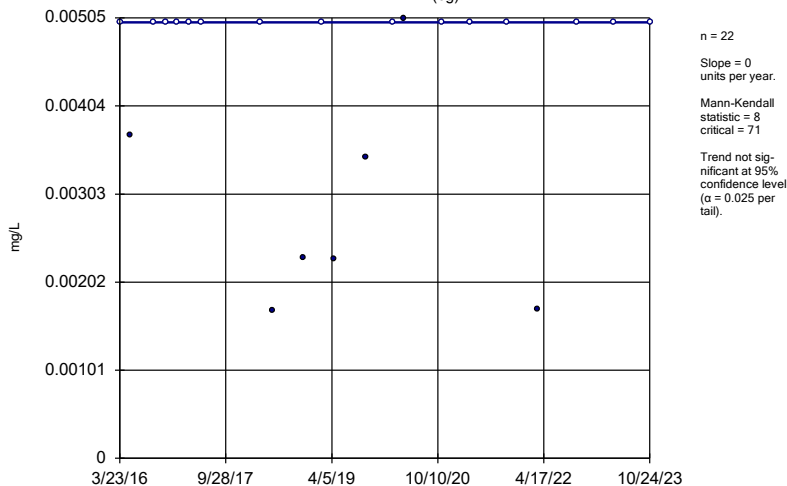
# Appendix IV Trend Tests - Confidence Interval Exceedances - All Results

Plant Daniel    Client: Southern Company    Data: Bottom Ash CCR    Printed 11/9/2023, 11:49 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>Alpha</u> | <u>Method</u> |
|-----------------------|--------------|-----------------|--------------|-----------------|-------------|-----------|-------------|------------------|--------------|---------------|
| Lithium (mg/L)        | BAW-1 (bg)   | 0               | 8            | 71              | No          | 22        | 68.18       | n/a              | 0.05         | NP            |
| Lithium (mg/L)        | BAW-2 (bg)   | 0               | 0            | 17              | No          | 8         | 100         | n/a              | 0.05         | NP            |
| Lithium (mg/L)        | BAW-2A (bg)  | 0               | 11           | 37              | No          | 14        | 57.14       | n/a              | 0.05         | NP            |
| <b>Lithium (mg/L)</b> | <b>BAW-5</b> | <b>-0.01534</b> | <b>-111</b>  | <b>-76</b>      | <b>Yes</b>  | <b>23</b> | <b>0</b>    | <b>n/a</b>       | <b>0.05</b>  | <b>NP</b>     |

### Sen's Slope Estimator

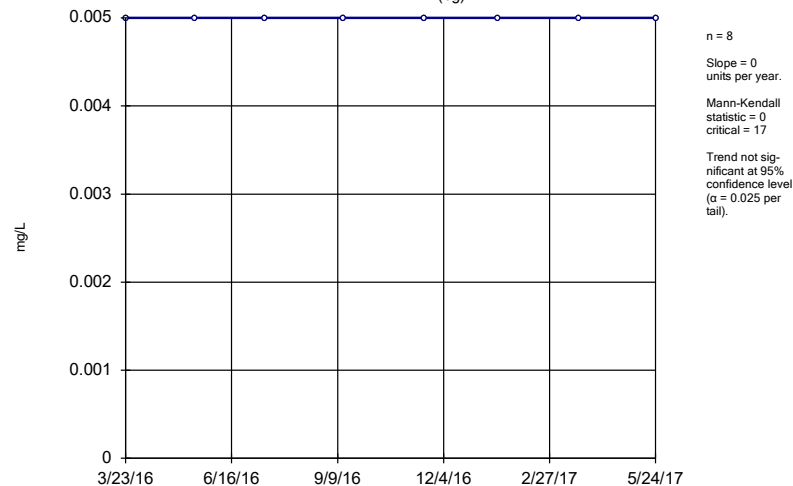
BAW-1 (bg)



Constituent: Lithium Analysis Run 11/9/2023 11:48 AM View: Appendix IV Trend Tests  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Sen's Slope Estimator

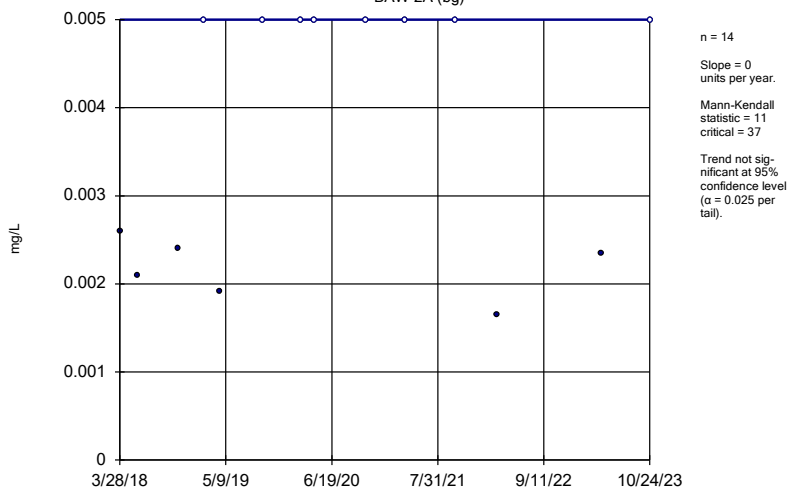
BAW-2 (bg)



Constituent: Lithium Analysis Run 11/9/2023 11:48 AM View: Appendix IV Trend Tests  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Sen's Slope Estimator

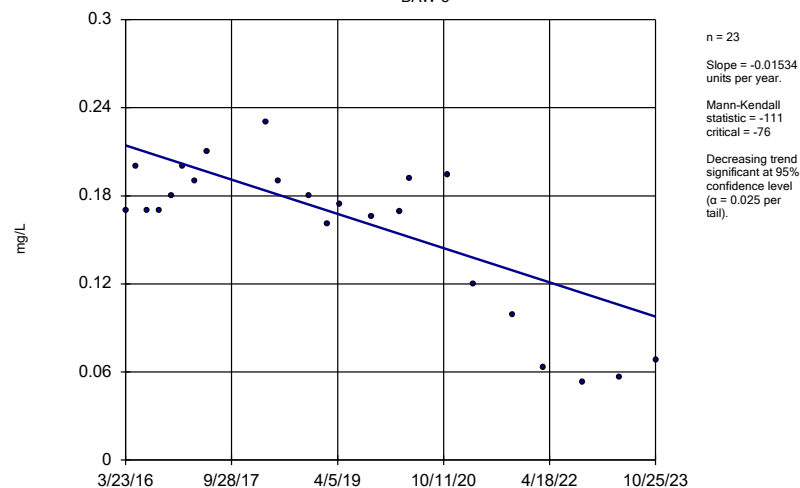
BAW-2A (bg)



Constituent: Lithium Analysis Run 11/9/2023 11:48 AM View: Appendix IV Trend Tests  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

### Sen's Slope Estimator

BAW-5



Constituent: Lithium Analysis Run 11/9/2023 11:48 AM View: Appendix IV Trend Tests  
Plant Daniel Client: Southern Company Data: Bottom Ash CCR