
2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

MISSISSIPPI POWER COMPANY
PLANT WATSON FORMER CCR UNIT



Report Submitted – August 1, 2022

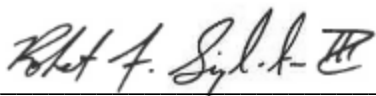
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CERTIFICATION STATEMENT

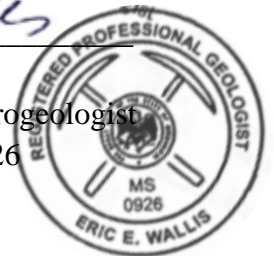
This *Annual Groundwater Monitoring and Corrective Action Report, Mississippi Power Company - Plant Jack Watson – former CCR Unit* has been prepared in compliance with the United States Environmental Protection Agency (EPA) Coal Combustion Residual (CCR) Rule (40 Code of Federal Regulations [CFR] 257 Subpart D; published in 80 FR 21302-21501, April 17, 2015) and the Administrative Order signed on December 23, 2019 between the Mississippi Commission on Environmental Quality and Mississippi Power Company under the supervision of a licensed professional geologist with Southern Company Services.



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EXECUTIVE SUMMARY

In accordance with the United States Environmental Protection Agency (EPA) Coal Combustion Residual (CCR) Rule (40 CFR Part 257, Subpart D) and Mississippi Commission on Environmental Quality (MCEQ) Administrative Order No. 7010-19, this 2022 Annual Groundwater Monitoring and Corrective Action Report has been prepared to document semi-annual assessment groundwater monitoring activities at the Plant Watson former CCR Unit (former CCR Unit) and to satisfy the requirements of § 257.90(e). Semi-annual assessment monitoring and associated reporting for the former CCR Unit is performed in accordance with the monitoring requirements § 257.90 through § 257.95. The CCR Unit began the monitoring period in assessment monitoring pursuant to § 257.95. Statistically significant increases (SSI) of Appendix III constituents over background were identified in the results of the first detection monitoring event, and assessment monitoring was initiated in August 2019.

The following summarizes activities related to groundwater monitoring at the site during the 2022 monitoring period:

- Began construction of the temporary groundwater remedy and enhanced source control system which is scheduled to be completed and operational in the fall of 2022.
- Conducted the first and second semi-annual sampling event during October 2021 and April 2022 in all background, downgradient and surface water monitoring locations.
- Performed a vertical delineation evaluation analyzing the occurrence of Appendix IV constituents in site vertical delineation wells. Preliminary results suggest that certain constituents exceeding the Groundwater Protection Standards in site vertical delineation wells are naturally occurring. Final results from the evaluation will be reported in an update of the Comprehensive Groundwater Investigation Report anticipated to be completed later this year.
- Submitted the Semi-Annual Remedy Selection and Design Progress Reports on September 30, 2021, and March 30, 2022.
- Submitted Semi-Annual Progress Reports on September 30, 2021, and March 30, 2022, in accordance with the requirements of Part 3. E. of Administrative Order No. 7010-19.

To meet the requirements of 40 CFR 257.90(e)(6), the **Executive Summary Table – Monitoring Period Summary**, describes the status of groundwater monitoring and corrective action during the monitoring period for this report.

The former CCR Unit concluded the monitoring period in assessment monitoring, and Mississippi Power Company (MPC) is evaluating potential groundwater remedies identified in the ACM report. The following monitoring-related activities are currently planned for the next monitoring period at the former CCR Unit:

- Semi-annual groundwater assessment monitoring, including sampling of horizontal and vertical delineation locations.
- Update the Comprehensive Groundwater Investigation Report to include vertical delineation evaluation results.
- Continue to evaluate vertical delineation of GWPS exceedances as necessary based on the results of the vertical delineation evaluation.
- Complete installation of temporary groundwater remedy and enhanced source control system, begin system operation, and monitor effects of temporary groundwater remedy.
- Submit the next Semi-Annual Remedy Selection and Design Progress Report by September 30, 2022.
- Submit the next Semi-Annual Progress Report by September 30, 2022.
- Submit the next Annual Groundwater and Corrective Action Report by August 1, 2023.

**Executive Summary Table.
Monitoring Period Summary
Plant Watson - Former CCR Unit**

Assessment Monitoring Initiated: August 2019
Monitoring Period: July 2021 - June 2022
Beginning Status: Assessment
Ending Status: Assessment

Statistical Analysis Results (Note 1)

Appendix III SSIs

Parameter	Wells
Boron	APMW-10, APMW-1R, APMW-2, APMW-3, APMW-5, APMW-6R, APMW-7, APMW-8, APMW-9
Calcium	APMW-1R, APMW-2, APMW-3, APMW-4, APMW-5, APMW-6R, APMW-8, APMW-9
Chloride	APMW-3, APMW-5
Fluoride	APMW-6R, APMW-8
pH	APMW-10, APMW-2
Sulfate	APMW-3, APMW-5
TDS	APMW-3, APMW-5

Appendix IV SSLs

Parameter	Wells
Arsenic	APMW-3, APMW-4, APMW-5, APMW-6R, APMW-8, APMW-10
Barium (Note 2)	APMW-2
Lithium	APMW-3, APMW-4, APMW-5, APMW-6R, APMW-8
Molybdenum	APMW-6R
Combined Radium 226 + 228 (Note 2)	APMW-1R, APMW-2, APMW-3, APMW-7, APMW-9

Assessment of Corrective Measures & Groundwater Remedy

Assessment of Corrective Measures

Date Initiated: March 15, 2020
Date Complete: August 11, 2020
Public Meeting Date: Not Determined

Groundwater Remedy

Selected During Period: No
Selection Date: Not yet selected
Initiated During Period: No
Ongoing During Period: No

Notes:

1. See the attached report for further details regarding statistical exceedances.
2. See the attached report for further details regarding alternate source demonstrations.

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1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (EPA) Coal Combustion Residual (CCR) Rule (40 C.F.R. Part 257 Subpart D) and the Mississippi Commission on Environmental Quality (MCEQ) Administrative Order Number 7010 19, this Annual Groundwater Monitoring and Corrective Action Report documents the groundwater monitoring activities completed from July 2021 through June 2022 at Mississippi Power Company's (MPC) Plant Jack Watson Electric Generating Plant (Plant Watson) Ash Pond (former CCR Unit). Semi-annual assessment monitoring and associated reporting for the former CCR Unit is performed in accordance with the monitoring requirements § 257.90 through § 257.95.

1.1 Site Description & Background

The former CCR Unit ceased receiving CCR in April 2015 and closure was complete in May 2018. As part of closure, the former CCR Unit was dewatered sufficiently to remove the free water. The CCR material remaining in the former CCR Unit was graded and a final cover system installed. The final cover system consists of ClosureTurf cover system by WatershedGeo that utilizes a 50-millimeter linear low-density polyethylene (LLDPE) geomembrane overlain by an engineered synthetic turf. The cover system was constructed to control, minimize or eliminate, to the maximum extent feasible, the infiltration of water into the former CCR Unit by providing sufficient grades and slopes to promote surface runoff from the site. The permeability of the final cover system is less than the permeability of the natural soils beneath the surface impoundment and not greater than 1×10^{-5} centimeters/second (cm/s).

The former CCR Unit is inactive and ceased operation prior to April 17, 2015. A notification of intent to close the former CCR Unit was placed in the operating record on December 15, 2015 and posted to the internet within 30 days. The former CCR Unit was closed in May 2018 and the Certification of Closure was posted to the internet on June 4, 2018. Groundwater monitoring and reporting for the former CCR Unit is being completed in accordance with the alternate schedule in § 257.100(e)(5) of the revised CCR Rule (August 5, 2016) and the Administrative Order.

2.0 REGIONAL GEOLOGY & HYDROGEOLOGIC SETTING

2.1 Site Location and Physical Setting

Plant Watson is located in Harrison County within the City of Gulfport, Mississippi. The physical address of the plant is 10406 Lorraine Road, Gulfport, Mississippi 39503. The former CCR Unit is located southeast of the plant and west of the Biloxi River. **Figure 1, Site Location Map**, depicts the location of Plant Watson and former CCR Unit with respect to the surrounding area. Harrison County, Mississippi, lies within the Eastern Section of the Gulf Coastal Plain physiographic province (USGS, 1998). The topography of Harrison County is gently rolling to flat with elevations ranging from 200 feet above mean sea level (MSL) inland to approximately 0 feet MSL near the coastal waterbodies (USGS, 1985). Local site elevations near the former CCR Unit are between 5 and 25 feet MSL.

2.2 Geology and Hydrogeology

The subsurface geology at the site is characterized by deposits of clay, silt, and sand deposited between the Pliocene and Holocene series. This sequence of sediments has been subdivided, from oldest to youngest, into the units of Upper Graham Ferry Member of the Pensacola Formation, Citronelle Formation, Biloxi Formation, Prairie Formation, and Holocene coastal wetland, deltaic, and alluvium deposits (Otvos, 2001). The unconsolidated sediment at the site is underlain by Pliocene and Miocene sedimentary rocks at depths greater than -500 feet MSL (USGS, 1998; Hoffmann et al, 2017).

At the Site, four geologic units have been encountered surrounding and underlying the former CCR Unit and are described from shallowest to deepest as follows:

- Unit 1 is dike fill material comprising the dike along the perimeter of the former CCR Unit with a thickness ranging from 0 to 20 feet
- Unit 2 is a sandy clay to clay aquitard underlying the former CCR Unit. The unit corresponds to the Biloxi Formation and ranges from 5 to 20 feet thick. Permeability testing conducted on Unit 2 soils indicate a permeability between 1×10^{-7} to 10^{-9} cm/s.
- Unit 3 is a fluvial sand aquifer corresponding to the Citronelle Formation. The unit is typically between 30 to 50 feet thick. Unit 3 is the uppermost aquifer at the site.

- Unit 4 is a clay aquitard underlying the Unit 3 aquifer and is continuous across the site. Unit 4 corresponds to the Upper Graham Ferry Formation. Permeability testing conducted on Unit 4 clays indicates a permeability in the 1×10^{-8} cm/s range.

Site monitoring wells are screened in the uppermost aquifer beneath the site in the Unit 3 sands corresponding to the Citronelle Formation. The Unit 3 sand aquifer generally consists of fine to coarse, well-graded sands with occasional lenses of clay and preserved wood fragments. Groundwater recharge to the uppermost aquifer in the area is largely through infiltration of precipitation.

A subsurface cement-bentonite wall was installed around the perimeter of the former CCR Unit between 1994 and 2000 to provide structural support of the soil dike. The subsurface wall was installed to a common depth around the former CCR Unit. Although installed primarily for structural stability, the subsurface wall extends through much of Unit 3 and impedes groundwater flow within Unit 3 beneath the former CCR Unit. Unit 3 groundwater monitoring wells are installed outside of the subsurface wall.

3.0 GROUNDWATER MONITORING ACTIVITIES

In accordance with 40 CFR § 257.90(e), the following describes monitoring-related activities performed during the monitoring period and presents the status of the monitoring program. Groundwater sampling was performed in accordance with § 257.93. Samples were collected from each well in the certified monitoring system. The location of each of these monitoring wells is shown on **Figure 2, Monitoring Well Network**.

3.1 Groundwater Monitoring Network

To meet the performance standards of § 257.91(a), MPC installed a groundwater monitoring system consisting of wells at appropriate locations with screens in the uppermost aquifer. The number, spacing, and depths of the groundwater monitoring wells were selected based on the characterization of Site-specific hydrogeologic conditions and certified by a Professional Engineer (PE). **Table 1, Groundwater Monitoring Network Details**, summarizes the monitoring well construction details and design purpose for the former CCR Unit. Monitoring wells in the certified monitoring system are shown on **Figure 2**.

Pursuant to § 257.95(g)(1), additional monitoring wells were installed to characterize the vertical extent of Groundwater Protection Standard (GWPS) exceedances identified during assessment monitoring. Additionally, surface water sampling locations are utilized to characterize the horizontal extent of GWPS exceedances at the former CCR Unit. Delineation wells are identified on **Figure 2** and detailed on **Table 1**. Delineation wells are sampled semi-annually as part of the semi-annual assessment groundwater monitoring program.

3.2 Assessment Monitoring

In accordance with § 257.94(b), eight independent samples were collected from each background and downgradient well and analyzed for the constituents listed in Appendix III and IV beginning March 2018 through February 2019, with additional wells extending to June 2019. Groundwater sampling for the first detection monitoring event after the background period was performed in April 2019.

Based on results presented in the *2019 Annual Groundwater and Corrective Action Monitoring Report*, MPC initiated an assessment monitoring program in August 2019. Pursuant to § 257.95(b) and within 90 days of initiating the assessment monitoring program, an initial assessment

monitoring event was conducted August 8 through 9, 2019 and monitoring wells were sampled for all Appendix IV parameters. Pursuant to § 257.95(d)(1), semi-annual assessment monitoring events were conducted August 2019 and March 2020. During the semi-annual assessment monitoring event, monitoring wells were sampled for Appendix III parameters as well as Appendix IV parameters that were detected in the initial assessment event. **Table 2, Summary of Sampling Events**, presents a summary of groundwater sampling events and their purpose completed during the semi-annual assessment monitoring events conducted in October 2021 and April 2022. Analytical data from the semi-annual groundwater monitoring events conducted in October 2021 and November 2022 are included in **Appendix A, Groundwater Analytical Data**.

4.0 GROUNDWATER SAMPLING METHODOLOGY AND ANALYSIS

The following sections describe the methods used to conduct assessment groundwater monitoring at the former CCR Unit.

4.1 Groundwater Elevation Measurement

Prior to each sampling event, groundwater levels were measured and recorded to the nearest 0.01 feet within a 24-hour period. Each well was opened and allowed to equilibrate to atmospheric pressure prior to measuring groundwater levels. Depths are referenced from the top of the well casing. Groundwater elevations are calculated by subtracting the depth to groundwater from surveyed top of casing (TOC) elevations.

Groundwater elevations fluctuate in response to rainfall and tides. Seasonal variations of 1.5 to 2.5 feet are typical at the site. **Table 3, Summary of Groundwater Elevations**, provides a summary of water level data for the site observed in the semi-annual assessment monitoring events conducted in October 2021 and April 2022. Four background monitoring wells (APMW-13 through APMW-16) are located on islands north of the CCR Unit and are typically sampled later in the event due to the difficulty of reaching them. Because the wells are located approximately a quarter mile north of the CCR Unit and need to be reached by airboat, they are not gauged during the initial gauging event and therefore groundwater elevations from those well are not used for generating potentiometric maps.

Groundwater elevation data from semi-annual assessment monitoring events were used to develop the potentiometric surface elevation contour maps provided as **Figure 3, Unit 3 Potentiometric Surface Contour Map – October 11, 2021** and **Figure 4, Unit 3 Potentiometric Surface Contour Map – April 4, 2022**. As shown on these figures, the general direction of groundwater flow in the uppermost Unit 3 aquifer is from west to east and radially from the former CCR Unit. The general groundwater flow direction in Unit 4 is generally west to east and does not appear to be influenced by the former CCR Unit. Groundwater elevations and flow patterns are generally consistent across the monitoring events.

4.2 Groundwater Sampling

Groundwater samples were collected in accordance with § 257.93(a). Each of the downgradient monitoring wells at the former CCR Unit is equipped with a dedicated bladder pump. For wells

without dedicated pumps, a peristaltic pump along with disposable polyethylene tubing was used to purge and sample from the middle of the well screen interval.

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) were measured to determine stabilization. A SmarTroll (In-Situ field instrument) was used to monitor and record field water quality parameters for stabilization during well purging. Turbidity was measured in the field with a portable turbidimeter. Groundwater samples were collected when the following stabilization criteria were met:

- 0.1 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 units (NTU)
- Temperature and oxidation reduction potential (ORP) – record only, no stabilization criteria

Once stabilization was achieved, samples were collected directly into appropriately preserved laboratory-supplied sample containers, placed in iced coolers, and submitted to Eurofins Test America, Inc. (Eurofins) following chain-of-custody protocol.

4.3 Laboratory Analysis

Laboratory analyses were performed by Eurofins in Pensacola, Florida; Pittsburg, Pennsylvania; and St. Louis, Missouri. The Eurofins locations are accredited by National Environmental Laboratory Accreditation Program (NELAP) and maintain a NELAP certification for all parameters analyzed. Analytical methods used for groundwater sample analysis and chain-of-custody records for each monitoring event are presented in **Appendix A**.

4.4 Quality Assurance/Quality Control

During each sampling event, quality assurance/quality control (QA/QC) samples 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**.

Background and detection monitoring groundwater quality data were independently validated following guidance from the EPA Region IV Environmental Investigations Standard Operating Procedures and Quality Assurance Manual (November 2001); the EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011); and the analytical methods. Data validation consisted of reviewing sample integrity, holding times, laboratory method blanks, laboratory control samples, matrix spikes/matrix spike duplicate recoveries and relative percent differences (RPDs), post digestion spikes, laboratory and field duplicate RPDs, field and equipment blanks, and reporting limits. A narrative providing the results of the data validation is provided in **Appendix A**.

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 § 257.93 following the PE-certified statistical method for the former CCR Unit. The statistical method used at the site was developed by Groundwater Stats Consulting, LLC. (GSC), in accordance with §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).

5.1 Statistical Methods

The Sanitas groundwater statistical software was used to perform the statistical analyses. Sanitas is a decision support software package that incorporates the statistical tests required of Subtitle C and D facilities by USEPA regulations. Statistical analysis was performed using methods described in the PE-certified statistical analysis plan for the site.

5.1.1 Appendix III Statistical Method

Interwell prediction limits (PL), combined with a 1-of-2 verification resample plan is the statistical method used to evaluate the groundwater monitoring data at the former CCR Unit. Interwell PLs pool upgradient well data to establish a background limit for an individual constituent. This method is appropriate where there is no significant variability in the data to be pooled as determined using an Analysis of Variability (ANOVA) test. The most recent sample from each downgradient well is compared to the background limit to identify statistically significant increases (SSIs) over background.

If data from a detection monitoring sampling event initially exceed the PL, the resampling strategy may be used to verify the result within 90 days. If the resample exceeds the PL, the initial exceedance is verified, and an SSI of that Appendix III parameter is determined. When the resample result does not verify the initial result, the initial exceedance is considered an erroneous result and the resample value will replace the initial result. If resampling is not conducted the initial exceedance is verified.

5.1.2 Appendix IV Statistical Method

When in assessment monitoring, Appendix IV constituents are statistically compared to the GWPS. Following the Unified Guidance, spatial variation for Appendix III parameters is tested

using the ANOVA (this test is not prescribed for Appendix IV constituents). Unlike the statistical evaluation of Appendix III constituents (where single-sample results are compared to the statistical limit), Appendix IV analysis uses the pooled results from each downgradient well to develop a well-specific confidence interval that is compared to the statistical limit. The statistical limit is either the interwell tolerance limit (i.e., background) calculated using the pool of all available upgradient well data, or an applicable groundwater protection standard. Appendix IV background data are screened for outliers and extreme trending patterns that would lead to artificially elevated statistical limits. Parametric tolerance limits (i.e. UTLs) were calculated using pooled upgradient well data for Appendix IV parameters with a target of 95% confidence and 95% coverage. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. The UTLs were then used as the GWPS.

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

- (1) The MCL established under 40 CFR § 141.62 and 141.66.
- (2) Where an MCL has not been established:
 - (i) Cobalt 0.006 mg/L;
 - (ii) Lead 0.015 mg/L;
 - (iii) Lithium 0.040 mg/L; and
 - (iv) Molybdenum 0.100 mg/L.
- (3) Background levels for constituents where the background level is higher than the MCL or rule specified GWPS.

In assessment monitoring, when the lower confidence limit (LCL), or the entire confidence interval, exceeds the GWPS as discussed in the USEPA Unified Guidance, the result is recorded as a statistically significant level (SSL) over the GWPS. **Table 4, Summary of Background Levels and Groundwater Protection Standards** summarizes the background limit established at each monitoring well and the GWPS.

5.2 Statistical Analysis Results

Appendix III and IV analytical data from the October 2021 and April 2022 semi-annual monitoring events was statistically analyzed in accordance with the PE-certified Statistical Analysis Plan. Appendix III statistical analysis was performed, and constituents have not returned to background levels. Appendix IV assessment monitoring parameters were evaluated using confidence intervals to determine if concentrations statistically exceeded the established GWPS.

5.2.1 First Semi-Annual Assessment Monitoring Event

Statistical analysis of Appendix IV data from the first semi-annual assessment monitoring event identified the following SSLs over GWPS as follows:

- Arsenic: APMW-3, APMW-4, APMW-5, APMW-6R, APMW-8, and APMW-10
- Barium: APMW-2
- Combined Radium: APMW-1R, APMW-2, APMW-3, APMW-7, and APMW-9
- Lithium: APMW-3, APMW-4, APMW-5, APMW-6R, and APMW-8
- Molybdenum: APMW-6R

Confidence intervals, time series plots, and box plots are provided in **Appendix B - Statistical Analyses**. Time-series plots were used to evaluate concentrations in wells and to visually compare concentrations in downgradient wells to those in background wells.

As discussed in **Section 6.0** of this report, ASDs have been prepared to address the SSLs for barium and combined radium.

5.2.2 Second Semi-Annual Assessment Monitoring Event

Statistical analysis of Appendix IV data from the first semi-annual assessment monitoring event identified the following SSLs over GWPS as follows:

- Arsenic: APMW-3, APMW-4, APMW-5, APMW-6R, APMW-8, and APMW-10
- Barium: APMW-2
- Combined Radium: APMW-1R, APMW-2, APMW-3, APMW-7, and APMW-9
- Lithium: APMW-3, APMW-4, APMW-5, APMW-6R, and APMW-8
- Molybdenum: APMW-6R

Confidence intervals, time series plots, and box plots are provided in **Appendix B**. Time-series plots were used to evaluate concentrations in wells and to visually compare concentrations in downgradient wells to those in background wells.

As discussed in **Section 6.0** of this report, ASDs have been prepared to address the SSLs for barium and combined radium.

5.2.3 Delineation Wells

To evaluate delineation efforts groundwater quality is simply compared to the GWPS. Surface water sampling locations serve as the basis for horizontal delineation in the direction of groundwater flow, and additional wells with a “D” designation were installed for downward vertical delineation.

A review of analytical data for samples from vertical delineation wells identified the following GWPS exceedances during the first semi-annual sampling event:

- Arsenic: APMW-5D, APMW-10D
- Lithium: APMW-4D
- Molybdenum: APMW-4D

During the second semi-annual sampling event, the following GWPS exceedances were observed in the vertical delineation wells:

- Arsenic: APMW-5D, APMW-10D
- Lithium: APMW-4D
- Molybdenum: APMW-4D

During the current monitoring period, vertical delineation of Appendix IV constituents was evaluated at APMW-4D and APMW-10D. As part of that delineation evaluation an isotope study was conducted to determine if observed Appendix IV constituents were naturally occurring and not related to the former CCR Unit. Evaluation is ongoing, but preliminary results suggest that concentrations of arsenic, lithium, and molybdenum observed at those locations are naturally occurring and not the result of a release from the former CCR Unit, and delineation is considered complete. Vertical delineation is still ongoing including at APMW-5D. Results from the vertical delineation evaluation will be included in an update of the Comprehensive Groundwater Investigation report once the results are finalized.

Analytical results from horizontal sampling locations did not identify concentrations above GWPS of Appendix IV constituents; therefore, horizontal delineation is complete at the former CCR Unit.

6.0 ALTERNATE SOURCE DEMONSTRATIONS

In accordance with 40 CFR § 257.95(g)(3)(ii), two separate ASDs were prepared and submitted to MDEQ to address SSLs of barium and radium. The ASD for barium was completed on August 1, 2020, and the ASD for radium completed on December 8, 2020.

Information presented in the ASDs explains that naturally occurring barium and radium caused the SSLs and the concentrations observed are not the result of a release from the former CCR Unit. Based on the ASDs, MPC has proposed excluding barium and radium from the corrective measures evaluation currently underway at the Site.

7.0 MONITORING PROGRAM STATUS

This site is currently in assessment monitoring and evaluating groundwater corrective action alternatives. Statistical evaluations of the groundwater monitoring data for the former CCR Unit identified SSIs of Appendix III and SSLs of Appendix IV groundwater monitoring parameters. MPC has initiated an ACM pursuant to § 257.95(g)(3)(i) and the Administrative Order. The ACM was completed by August 11, 2020 and posted to the operating record.

A temporary groundwater remedy and enhance source control system is currently being installed at the Site and is scheduled to be operational in the fall of 2022. The temporary groundwater remedy consists of four extraction wells installed within the footprint of the former CCR Unit and screened in the Unit 3 aquifer. The system is designed to lower the hydraulic head in the vicinity of the former CCR Unit and provide an additional level of source control as the final remedy is selected and implemented. The temporary remedy is expected to be operational for a limited period of time depending on design factors and performance criteria.

8.0 CONCLUSIONS AND FUTURE ACTIONS

Based on the results reported in the 2019 Annual Groundwater Monitoring and Corrective Action Report, MPC initiated an assessment monitoring program. An ACM was completed on August 11, 2020, to address SSLs of Appendix IV above groundwater protection standards pursuant to 40 CFR § 257.95(g)(5). This Groundwater Monitoring and Corrective Action Report has been prepared to fulfill the requirements of USEPA CCR rule 40 CFR 257 Subpart D. Semi-annual assessment monitoring events took place in October 2021 and April 2022. Statistical evaluations of the assessment monitoring data identified SSLs of Appendix IV constituents above the GWPS. The Site remains in assessment monitoring while groundwater corrective remedies are being evaluated.

An ASD has been prepared to address SSLs of barium and radium. Additionally, vertical delineation has been evaluated at APMW-4D, APMW-5D, and APMW-10D. Preliminary results suggest that vertical delineation is considered complete at APMW-4D and APMW-10D, and vertical delineation evaluation is ongoing at APMW-5D. MPC will continue to characterize the nature and extent of GWPS exceedances for arsenic, lithium, and molybdenum as required by § 257.95(g)(1) and the Administrative Order and report result pursuant to the Administrative Order and § 257.90(e)(3).

The following future actions are planned during the next 12 months at the Site:

- Semi-annual groundwater assessment monitoring, including sampling of horizontal and vertical delineation locations.
- Update the Comprehensive Groundwater Investigation Report to include vertical delineation evaluation results.
- Continue to evaluate vertical delineation of GWPS exceedances as necessary based on the results of the vertical delineation evaluation.
- Complete installation of temporary groundwater remedy and enhanced source control system, begin system operation, and monitor effects of temporary groundwater remedy.
- Submit the next Semi-Annual Remedy Selection and Design Progress Report by September 30, 2022.
- Submit the next Semi-Annual Progress Report by September 30, 2022.

- Submit the next Annual Groundwater and Corrective Action Report by August 1, 2023.

9.0 REFERENCES

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- Stewart, L. and J.F. Everett. (2002). Groundwater Study of Historical Water-Level and Water-Quality Data in Harrison County, Mississippi. Mississippi Department of Environmental Quality. Open-fileReport 02-102.

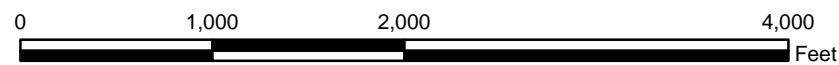
Figures



Service Layer Credits: USDA, NRCS, MARIS

Legend

- Plant Watson Property Boundary
- CCR Unit Boundary



SCALE	1:12000
DATE	7/31/2020
DRAWN BY	KAR
CHECKED BY	LPC

DRAWING TITLE
**SITE LOCATION MAP
 PLANT WATSON
 FORMER CCR UNIT**

FIGURE NO
FIGURE 1





Service Layer Credits: USDA, NRCS, MARIS

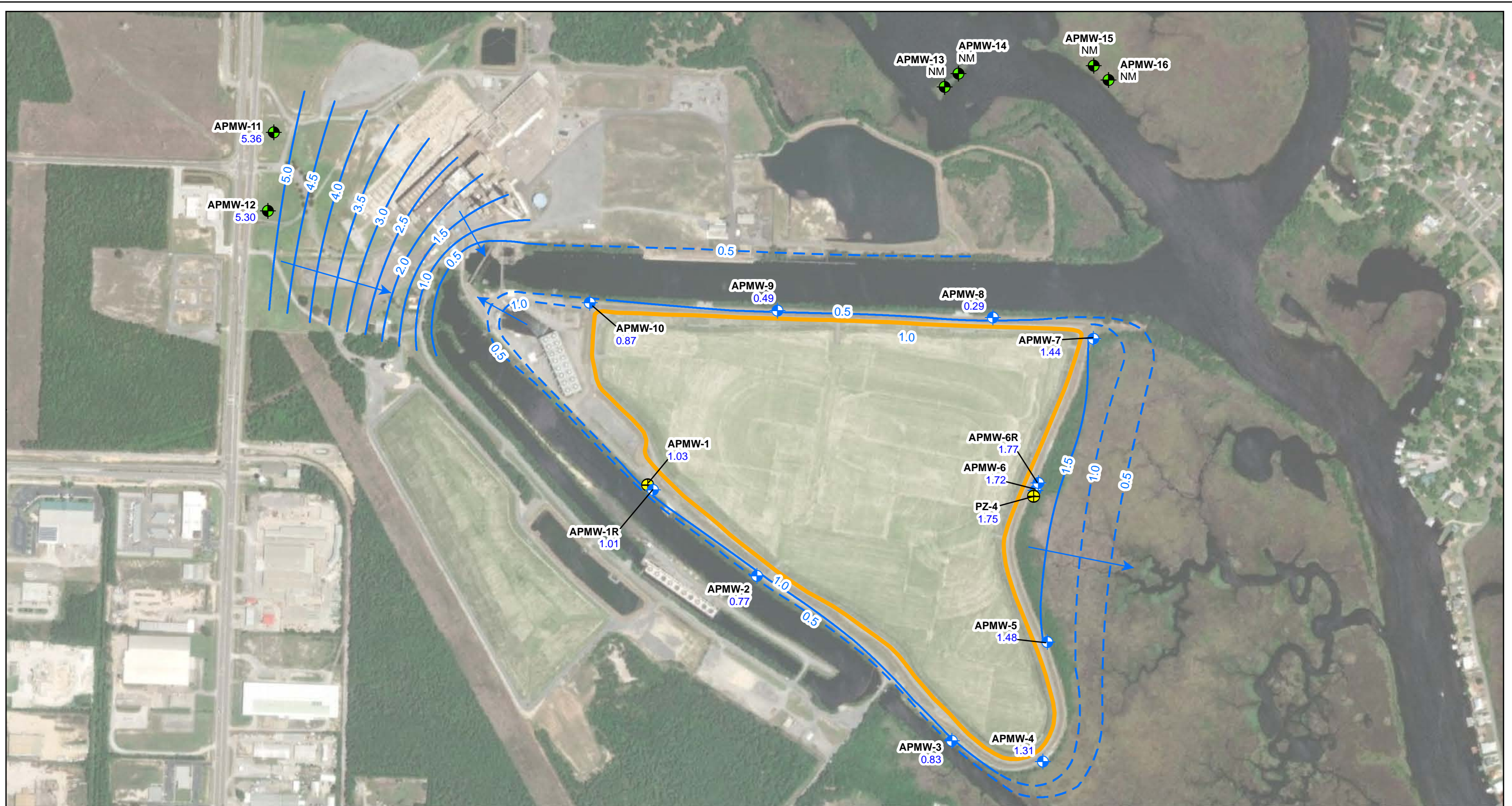
Legend

- + Downgradient Monitoring Well
- + Upgradient Monitoring Well
- + Delineation Well
- CCR Unit Boundary

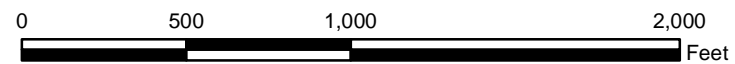


SCALE	1:7200
DATE	7/28/2021
DRAWN BY	KWR
CHECKED BY	LPC

DRAWING TITLE	
MONITORING WELL NETWORK PLANT WATSON FORMER CCR UNIT	
FIGURE NO	FIGURE 2
Southern Company	



Legend	
	Downgradient Monitoring Well
	Upgradient Monitoring Well
	Delineation Well
	Piezometer
	CCR Unit Boundary
	Estimated Groundwater Elevation Contour (ft NAVD88)
	Inferred Groundwater Elevation Contour (ft NAVD88)
	Inferred Groundwater Flow Direction
	Well Name Groundwater Elevation (ft NAVD88)



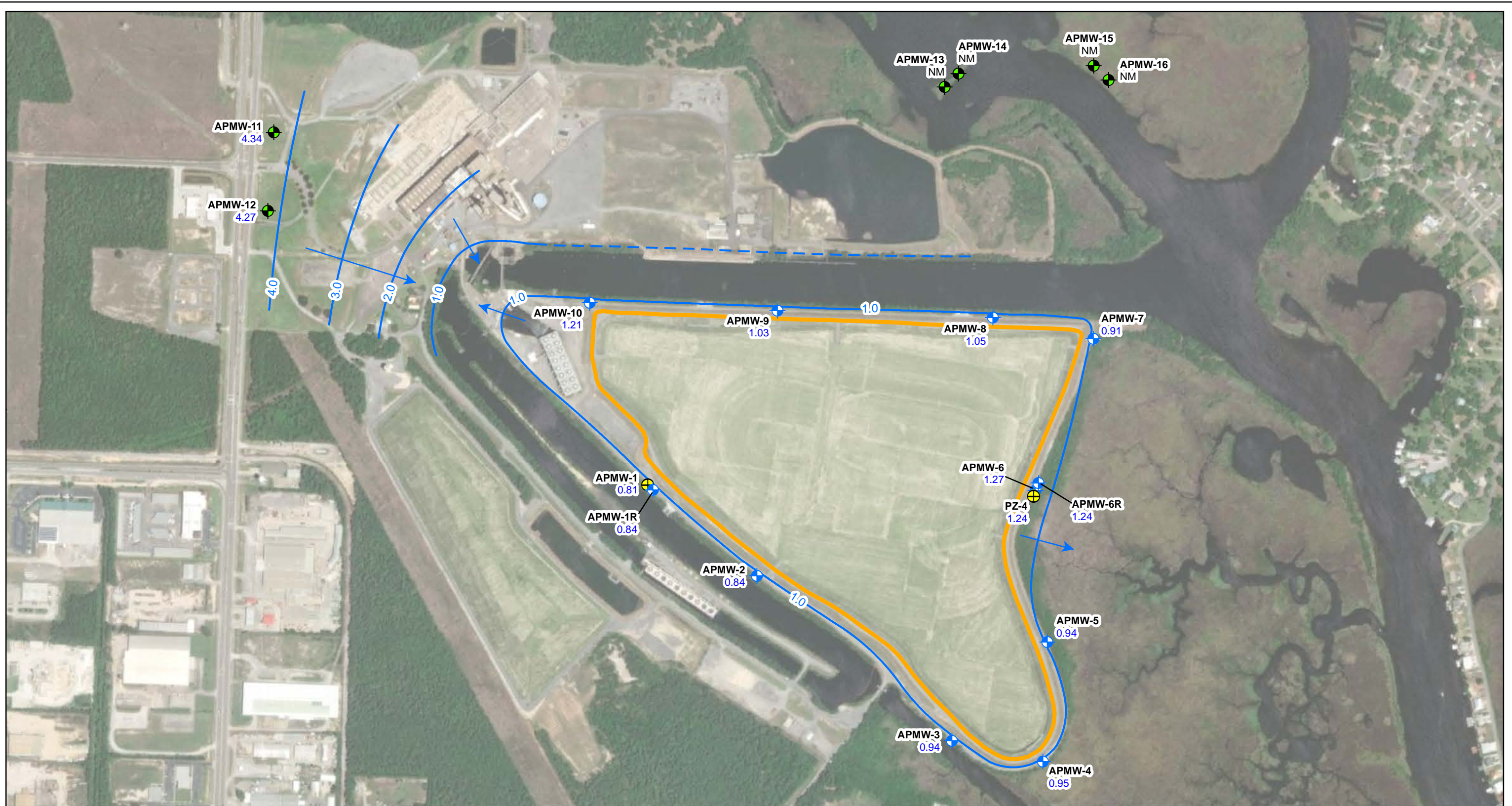
NOTES:
 1. ft NAVD88 indicates feet above North American Vertical Datum of 1988.
 2. NM indicates not measured.

SCALE	1:7000
DATE	7/22/2022
DRAWN BY	KAR
CHECKED BY	RFS

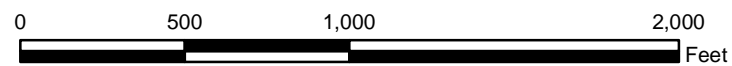
DRAWING TITLE
 UNIT 3 POTENTIOMETRIC SURFACE
 CONTOUR MAP
 OCTOBER 11, 2021
 PLANT WATSON FORMER CCR UNIT

FIGURE NO
FIGURE 3





Legend	
	Downgradient Monitoring Well
	Upgradient Monitoring Well
	Delineation Well
	Piezometer
	CCR Unit Boundary
	Estimated Groundwater Elevation Contour (ft NAVD88)
	Inferred Groundwater Elevation Contour (ft NAVD88)
	Inferred Groundwater Flow Direction
	Well Name
	Groundwater Elevation (ft NAVD88)



NOTES:
 1. ft NAVD88 indicates feet above North American Vertical Datum of 1988.
 2. NM indicates not measured.

SCALE	1:7000
DATE	7/22/2022
DRAWN BY	KAR
CHECKED BY	RFS

DRAWING TITLE
 UNIT 3 POTENTIOMETRIC SURFACE
 CONTOUR MAP
 APRIL 4, 2022
 PLANT WATSON FORMER CCR UNIT

FIGURE NO
FIGURE 4



Tables

Table 1. Groundwater Monitoring Network Details

Well Name	Installation Date	Purpose	Northing	Easting	Ground Elevation	Top of Casing Elevation	Top of Screen Elevation	Bottom of Screen Elevation
APMW-1	7/12/2016	Water Level	339968.40	924453.57	22.48	24.86	-1.52	-11.92
APMW-1R	1/24/2019	Downgradient (APMW-1 Replacement)	339938.30	924486.30	22.50	25.16	-8.34	-13.34
APMW-2	7/18/2016	Downgradient	339436.26	925145.20	19.95	22.58	-9.05	-19.65
APMW-3	7/18/2016	Downgradient	338466.67	926382.75	5.60	8.40	-17.40	-28.00
APMW-4	7/19/2016	Downgradient	338360.09	926947.41	10.76	13.39	-13.24	-23.84
APMW-5	7/19/2016	Downgradient	339095.64	926946.56	6.01	8.68	-17.99	-28.59
APMW-6	7/20/2016	Not Applicable ³	340025.90	926838.72	7.00	8.91	-16.00	-26.00
APMW-6R	1/29/2019	Downgradient (APMW-6 Replacement)	340071.30	926854.60	5.50	8.11	-44.09	-54.09
APMW-7	7/20/2016	Downgradient	340970.41	927159.53	10.50	13.00	-14.50	-24.30
APMW-8	7/21/2016	Downgradient	341076.09	926536.95	18.08	21.00	-11.60	-21.60
APMW-9	7/21/2016	Downgradient	341069.72	925210.34	19.83	22.41	-9.17	-19.77
APMW-10	7/22/2016	Downgradient	341075.20	924053.45	18.20	21.11	-1.80	-11.40
APMW-11	1/24/2019	Upgradient	342047.37	922071.42	19.60	22.45	-18.59	-28.44
APMW-12	1/28/2019	Upgradient	341563.98	922052.04	17.10	20.06	-22.44	-32.98
PZ-4	1/29/2019	Water Level Only	339990.47	926829.94	5.00	7.93	-20.90	-30.90

Notes:

1. Northing and easting are in feet relative to the State Plane Mississippi East North America Datum of 1983.
2. Elevations are in feet relative to the North American Vertical Datum of 1988.

Table 1. Groundwater Monitoring Network Details

3. APMW-6 was damaged and is no longer part of the monitoring network.

Well Name	Installation Date	Purpose	Northing	Easting	Ground Elevation	Top of Casing Elevation	Top of Screen Elevation	Bottom of Screen Elevation
APMW-13	6/18/2020	Upgradient	342483.05	926186.44	1.77	4.49	-14.23	-19.23
APMW-14	6/16/2020	Upgradient	342570.07	926269.01	2.04	4.12	-13.96	-18.96
APMW-15	6/17/2020	Upgradient	342649.05	927097.17	2.17	4.25	-17.83	-22.83
APMW-16	6/17/2020	Upgradient	342564.75	927191.96	1.88	4.14	-17.13	-22.13
APMW-2D	4/28/2020	Vertical Delineation	339427.96	925162.46	21.40	23.78	-128.60	-138.60
APMW-3D	4/30/2020	Vertical Delineation	338457.03	926404.68	7.12	9.77	-77.88	-82.88
APMW-4D	5/1/2020	Vertical Delineation	338347.21	926910.01	12.94	12.70	-77.06	-87.06
APMW-5D	5/4/2020	Vertical Delineation	339099.81	926933.66	10.69	10.30	-95.31	-100.31
APMW-6D	5/5/2020	Vertical Delineation	340046.56	926847.95	7.81	10.05	-90.19	-95.19
APMW-8D	5/13/2020	Vertical Delineation	341077.32	926559.91	19.77	22.23	-65.23	-70.23
APMW-10D	5/15/2020	Vertical Delineation	341077.51	924031.34	19.06	21.68	-179.94	-184.94

Notes:

1. Northing and easting are in feet relative to the State Plane Mississippi East North America Datum of 1983.
2. Elevations are in feet relative to the North American Vertical Datum of 1988.
3. APMW-6 was damaged and is no longer part of the monitoring network.

Table 2. Groundwater Sampling Event Summary

Purpose of Sampling Event		SA01 2021 Assessment Monitoring	SA02 2022 Assessment Monitoring
APMW-1R	Downgradient	10/12/2021	4/4/2022
APMW-2	Downgradient	10/12/2021	4/5/2022
APMW-3	Downgradient	10/21/2021	4/5/2022
APMW-4	Downgradient	10/14/2021	4/6/2022
APMW-5	Downgradient	10/12/2021	4/6/2022
APMW-6R	Downgradient	10/20/2021	4/7/2022
APMW-7	Downgradient	10/12/2021	4/6/2022
APMW-8	Downgradient	10/21/2021	4/6/2022
APMW-9	Downgradient	10/12/2021	4/6/2022
APMW-10	Downgradient	10/12/2021	4/5/2022
APMW-11	Upgradient	10/11/2021	4/4/2022
APMW-12	Upgradient	10/11/2021	4/4/2022
APMW-13	Upgradient	10/20/2021	4/7/2022
APMW-14	Upgradient	10/15/2021	4/7/2022
APMW-15	Upgradient	10/20/2021	4/7/2022
APMW-16	Upgradient	10/15/2021	4/7/2022
APMW-2D	Vertical Delineation	10/12/2021	4/5/2022
APMW-3D	Vertical Delineation	10/11/2021	4/5/2022
APMW-4D	Vertical Delineation	10/14/2021	4/5/2022
APMW-5D	Vertical Delineation	10/11/2021	4/6/2022
APMW-6D	Vertical Delineation	10/14/2021	4/7/2022
APMW-8D	Vertical Delineation	10/12/2021	4/6/2022
APMW-10D	Vertical Delineation	10/12/2021	4/5/2022

Notes:

1. SA # indicates Semiannual Assessment Monitoring Event and the number corresponds with the event number.

Table 3. Summary of Groundwater Elevations

Well ID	TOC Elev (ft MSL)	Depth to GW 10/11/2021 (ft BTOC)	GW Elevation 10/11/2021 (ft MSL)	Depth to GW 4/4/2022 (ft BTOC)	GW Elevation 4/4/2022 (ft MSL)
APMW-1	24.86	23.83	1.03	24.05	0.81
APMW-1R	25.16	24.15	1.01	24.32	0.84
APMW-2	22.58	21.81	0.77	21.74	0.84
APMW-3	8.40	7.57	0.83	7.46	0.94
APMW-4	13.39	12.08	1.31	12.44	0.95
APMW-5	8.68	7.20	1.48	7.74	0.94
APMW-6	8.91	7.19	1.72	7.64	1.27
APMW-6R	8.11	6.34	1.77	6.87	1.24
APMW-7	13.00	11.56	1.44	12.09	0.91
APMW-8	21.00	20.71	0.29	19.95	1.05
APMW-9	22.41	21.92	0.49	21.38	1.03
APMW-10	21.11	20.24	0.87	19.90	1.21
APMW-11	22.45	17.09	5.36	18.11	4.34
APMW-12	20.06	14.76	5.30	15.79	4.27
PZ-4	7.93	6.18	1.75	6.69	1.24
APMW-13	4.49	NM	NM	NM	NM
APMW-14	4.12	NM	NM	NM	NM
APMW-15	4.25	NM	NM	NM	NM
APMW-16	4.14	NM	NM	NM	NM
APMW-2D	23.78	14.42	9.36	14.62	9.16
APMW-3D	9.77	6.64	3.13	7.12	2.65
APMW-4D	12.70	10.49	2.21	10.89	1.81
APMW-5D	10.30	7.31	2.99	7.99	2.31
APMW-6D	10.05	6.89	3.16	7.45	2.60
APMW-8D	22.23	19.66	2.57	19.76	2.47
APMW-10D	21.68	14.03	7.65	14.06	7.62

Notes:

1. TOC Elev indicates top of casing elevation
2. ft MLS indicates feet relative to mean sea level.
3. BTOC indicates below top of casing.
4. NM - not measured

Table 4. Summary of Background Levels and Groundwater Protection Standards

Analyte	Units	Background	Rule Specified GWPS	Site-Specific GWPS
Antimony	mg/L	0.002	0.006	0.006
Arsenic	mg/L	0.005	0.01	0.01
Barium	mg/L	0.25	2	2
Beryllium	mg/L	0.0025	0.004	0.004
Cadmium	mg/L	0.0025	0.005	0.005
Chromium	mg/L	0.0044	0.1	0.1
Cobalt	mg/L	0.0025	0.006	0.006
Combined Radium-226/228	pCi/L	4.74	5	5
Fluoride	mg/L	2	4	4
Lead	mg/L	0.001	0.015	0.015
Lithium	mg/L	0.025	0.04	0.04
Mercury	mg/L	0.0002	0.002	0.002
Molybdenum	mg/L	0.015	0.1	0.1
Selenium	mg/L	0.005	0.05	0.05
Thallium	mg/L	0.001	0.002	0.002

Note:

1. Rule Specified GWPS is the MCL or standard listed in the CCR Rule.
2. Site-Specific GWPS is the greater of background or rule specified GWPS.

Appendix A

1st
Semi-Annual
Monitoring Event

Low-Flow Test Report:

Test Date / Time: 10/11/2021 9:32:02 AM

Project: Watson

Operator Name: Brett Surles

Location Name: Watson APMW-11 Well Diameter: 2 in Screen Length: 10 ft Top of Screen: 41.6 ft Total Depth: 51.6 ft Initial Depth to Water: 17.09 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 46.6 ft Estimated Total Volume Pumped: 10 liter Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.01 in	Instrument Used: Aqua TROLL 400 Serial Number: 800306
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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	+/- 10	+/- 0.2	
10/11/2021 9:32 AM	00:00	6.18 pH	24.36 °C	123.82 µS/cm	0.99 mg/L	1.90 NTU	87.0 mV	17.10 in	400.00 ml/min
10/11/2021 9:37 AM	05:00	6.04 pH	23.36 °C	124.14 µS/cm	0.31 mg/L	0.79 NTU	61.0 mV	17.10 in	400.00 ml/min
10/11/2021 9:42 AM	10:00	6.08 pH	23.32 °C	124.07 µS/cm	0.18 mg/L	0.53 NTU	51.9 mV	17.10 in	400.00 ml/min
10/11/2021 9:47 AM	15:00	6.09 pH	23.28 °C	124.09 µS/cm	0.16 mg/L	0.77 NTU	46.4 mV	17.10 in	400.00 ml/min
10/11/2021 9:52 AM	20:00	6.11 pH	23.35 °C	123.36 µS/cm	0.17 mg/L	1.00 NTU	41.4 mV	17.10 in	400.00 ml/min
10/11/2021 9:57 AM	25:00	6.13 pH	23.41 °C	122.52 µS/cm	0.15 mg/L	0.98 NTU	37.2 mV	17.10 in	400.00 ml/min

Samples

Sample ID:	Description:
APMW-11	Sample @0958, DUP-01 @0958

Low-Flow Test Report:

Test Date / Time: 10/11/2021 10:30:30 AM

Project: Watson

Operator Name: Brett Surles

Location Name: Watson APMW-12 Well Diameter: 2 in Screen Length: 10 ft Top of Screen: 44.1 ft Total Depth: 54.1 ft Initial Depth to Water: 14.8 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 49.1 ft Estimated Total Volume Pumped: 8 liter Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 400 Serial Number: 800306
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Test Notes:

Weather Conditions:

Cloudy 82

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	+/- 10	+/- 0.2	
10/11/2021 10:30 AM	00:00	6.07 pH	25.33 °C	178.55 µS/cm	0.67 mg/L	4.28 NTU	55.5 mV	14.80 ft	400.00 ml/min
10/11/2021 10:35 AM	05:00	6.06 pH	23.50 °C	184.32 µS/cm	0.23 mg/L	2.56 NTU	49.1 mV	14.80 ft	400.00 ml/min
10/11/2021 10:40 AM	10:00	6.07 pH	23.50 °C	182.82 µS/cm	0.17 mg/L	1.61 NTU	44.2 mV	14.80 ft	400.00 ml/min
10/11/2021 10:45 AM	15:00	6.08 pH	23.41 °C	182.09 µS/cm	0.15 mg/L	1.21 NTU	40.6 mV	14.80 ft	400.00 ml/min
10/11/2021 10:50 AM	20:00	6.08 pH	23.41 °C	181.50 µS/cm	0.15 mg/L	1.05 NTU	38.4 mV	14.80 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-12	Sample@1052, EB-01@1100, FB01@1110

Low-Flow Test Report:

Test Date / Time: 10/11/2021 10:53:41 AM

Project: Plant Watson CCR

Operator Name: Philip Evans

Location Name: Plant Watson APMW-5D Well Diameter: 2 in Screen Length: 5 ft Top of Screen: 106 ft Total Depth: 111 ft Initial Depth to Water: 7.31 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 108.5 ft Estimated Total Volume Pumped: 128000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 3.26 ft	Instrument Used: Aqua TROLL 400 Serial Number: 817728
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Test Notes:

Sample time @ 1620. Sunny 88.

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	+/- 10	+/- 0.2	
10/11/2021 10:53 AM	00:00	5.82 pH	23.79 °C	175.12 µS/cm	0.43 mg/L	9.08 NTU	98.3 mV	8.42 ft	400.00 ml/min
10/11/2021 10:58 AM	05:00	6.12 pH	22.89 °C	176.93 µS/cm	0.24 mg/L	7.90 NTU	73.1 mV	9.16 ft	400.00 ml/min
10/11/2021 11:03 AM	10:00	6.22 pH	22.84 °C	176.64 µS/cm	0.19 mg/L	7.80 NTU	56.3 mV	9.84 ft	400.00 ml/min
10/11/2021 11:08 AM	15:00	6.26 pH	22.82 °C	176.27 µS/cm	0.16 mg/L	7.78 NTU	44.5 mV	10.12 ft	400.00 ml/min
10/11/2021 11:13 AM	20:00	6.29 pH	22.84 °C	174.02 µS/cm	0.15 mg/L	7.45 NTU	35.6 mV	10.24 ft	400.00 ml/min
10/11/2021 11:18 AM	25:00	6.31 pH	22.72 °C	172.60 µS/cm	0.14 mg/L	7.36 NTU	30.0 mV	10.32 ft	400.00 ml/min
10/11/2021 11:23 AM	30:00	6.32 pH	22.75 °C	171.37 µS/cm	0.13 mg/L	7.35 NTU	25.9 mV	10.35 ft	400.00 ml/min
10/11/2021 11:28 AM	35:00	6.35 pH	22.84 °C	170.34 µS/cm	0.12 mg/L	9.88 NTU	23.5 mV	10.38 ft	400.00 ml/min
10/11/2021 11:33 AM	40:00	6.37 pH	22.66 °C	169.80 µS/cm	0.11 mg/L	12.60 NTU	21.8 mV	10.40 ft	400.00 ml/min
10/11/2021 11:38 AM	45:00	6.37 pH	22.67 °C	169.32 µS/cm	0.11 mg/L	17.70 NTU	20.0 mV	10.42 ft	400.00 ml/min
10/11/2021 11:43 AM	50:00	6.39 pH	22.63 °C	171.49 µS/cm	0.11 mg/L	17.72 NTU	17.9 mV	10.44 ft	400.00 ml/min
10/11/2021 11:48 AM	55:00	6.40 pH	22.65 °C	172.87 µS/cm	0.10 mg/L	17.80 NTU	15.6 mV	10.46 ft	400.00 ml/min
10/11/2021 11:53 AM	01:00:00	6.41 pH	22.62 °C	176.35 µS/cm	0.10 mg/L	17.88 NTU	13.7 mV	10.48 ft	400.00 ml/min
10/11/2021 11:58 AM	01:05:00	6.41 pH	22.71 °C	178.79 µS/cm	0.09 mg/L	15.60 NTU	11.4 mV	10.50 ft	400.00 ml/min
10/11/2021 12:03 PM	01:10:00	6.43 pH	22.62 °C	178.86 µS/cm	0.09 mg/L	14.10 NTU	8.8 mV	10.52 ft	400.00 ml/min

10/11/2021 12:08 PM	01:15:00	6.43 pH	22.68 °C	180.93 µS/cm	0.09 mg/L	13.30 NTU	6.7 mV	10.54 ft	400.00 ml/min
10/11/2021 12:13 PM	01:20:00	6.44 pH	22.70 °C	181.26 µS/cm	0.09 mg/L	12.40 NTU	4.9 mV	10.55 ft	400.00 ml/min
10/11/2021 12:18 PM	01:25:00	6.45 pH	22.63 °C	182.58 µS/cm	0.08 mg/L	11.60 NTU	3.0 mV	10.57 ft	400.00 ml/min
10/11/2021 12:23 PM	01:30:00	6.47 pH	22.65 °C	182.70 µS/cm	0.08 mg/L	10.20 NTU	0.7 mV	10.57 ft	400.00 ml/min
10/11/2021 12:28 PM	01:35:00	6.47 pH	22.62 °C	182.12 µS/cm	0.08 mg/L	9.09 NTU	-0.3 mV	10.57 ft	400.00 ml/min
10/11/2021 12:33 PM	01:40:00	6.49 pH	22.62 °C	183.93 µS/cm	0.08 mg/L	8.45 NTU	-2.1 mV	10.57 ft	400.00 ml/min
10/11/2021 12:38 PM	01:45:00	6.50 pH	22.66 °C	184.50 µS/cm	0.08 mg/L	7.87 NTU	-3.5 mV	10.57 ft	400.00 ml/min
10/11/2021 12:43 PM	01:50:00	6.51 pH	22.73 °C	183.06 µS/cm	0.08 mg/L	7.25 NTU	-4.6 mV	10.57 ft	400.00 ml/min
10/11/2021 12:48 PM	01:55:00	6.51 pH	22.71 °C	183.94 µS/cm	0.07 mg/L	7.05 NTU	-5.5 mV	10.57 ft	400.00 ml/min
10/11/2021 12:53 PM	02:00:00	6.51 pH	22.78 °C	182.59 µS/cm	0.08 mg/L	6.96 NTU	-6.5 mV	10.57 ft	400.00 ml/min
10/11/2021 12:58 PM	02:05:00	6.52 pH	22.80 °C	183.70 µS/cm	0.07 mg/L	6.02 NTU	-7.0 mV	10.57 ft	400.00 ml/min
10/11/2021 1:03 PM	02:10:00	6.53 pH	22.72 °C	183.19 µS/cm	0.07 mg/L	5.65 NTU	-7.8 mV	10.57 ft	400.00 ml/min
10/11/2021 1:08 PM	02:15:00	6.53 pH	22.71 °C	184.24 µS/cm	0.07 mg/L	5.38 NTU	-8.2 mV	10.57 ft	400.00 ml/min
10/11/2021 1:13 PM	02:20:00	6.53 pH	22.65 °C	184.34 µS/cm	0.07 mg/L	5.10 NTU	-8.7 mV	10.57 ft	400.00 ml/min
10/11/2021 1:18 PM	02:25:00	6.53 pH	22.59 °C	185.01 µS/cm	0.07 mg/L	4.94 NTU	-9.3 mV	10.57 ft	400.00 ml/min
10/11/2021 1:23 PM	02:30:00	6.55 pH	22.73 °C	184.41 µS/cm	0.08 mg/L	4.81 NTU	-10.7 mV	10.57 ft	400.00 ml/min
10/11/2021 1:28 PM	02:35:00	6.54 pH	22.75 °C	185.64 µS/cm	0.07 mg/L	4.56 NTU	-10.8 mV	10.57 ft	400.00 ml/min
10/11/2021 1:33 PM	02:40:00	6.54 pH	22.75 °C	185.33 µS/cm	0.07 mg/L	4.45 NTU	-10.7 mV	10.57 ft	400.00 ml/min
10/11/2021 1:38 PM	02:45:00	6.55 pH	22.73 °C	184.73 µS/cm	0.07 mg/L	4.30 NTU	-11.1 mV	10.57 ft	400.00 ml/min
10/11/2021 1:43 PM	02:50:00	6.55 pH	22.80 °C	183.96 µS/cm	0.07 mg/L	4.28 NTU	-11.6 mV	10.57 ft	400.00 ml/min
10/11/2021 1:48 PM	02:55:00	6.55 pH	22.71 °C	183.69 µS/cm	0.07 mg/L	4.25 NTU	-11.4 mV	10.57 ft	400.00 ml/min
10/11/2021 1:53 PM	03:00:00	6.51 pH	22.62 °C	186.06 µS/cm	0.07 mg/L	4.20 NTU	-9.6 mV	10.57 ft	400.00 ml/min
10/11/2021 1:58 PM	03:05:00	6.52 pH	22.69 °C	184.65 µS/cm	0.06 mg/L	4.09 NTU	-10.4 mV	10.57 ft	400.00 ml/min
10/11/2021 2:03 PM	03:10:00	6.53 pH	22.58 °C	185.23 µS/cm	0.07 mg/L	3.83 NTU	-11.0 mV	10.57 ft	400.00 ml/min
10/11/2021 2:08 PM	03:15:00	6.54 pH	22.80 °C	185.04 µS/cm	0.07 mg/L	3.75 NTU	-12.0 mV	10.57 ft	400.00 ml/min
10/11/2021 2:13 PM	03:20:00	6.55 pH	22.75 °C	184.27 µS/cm	0.07 mg/L	3.52 NTU	-12.5 mV	10.57 ft	400.00 ml/min
10/11/2021 2:18 PM	03:25:00	6.54 pH	22.70 °C	185.43 µS/cm	0.07 mg/L	3.38 NTU	-12.2 mV	10.57 ft	400.00 ml/min
10/11/2021 2:23 PM	03:30:00	6.56 pH	22.80 °C	184.06 µS/cm	0.07 mg/L	3.24 NTU	-13.1 mV	10.57 ft	400.00 ml/min
10/11/2021 2:28 PM	03:35:00	6.57 pH	22.77 °C	183.63 µS/cm	0.06 mg/L	3.19 NTU	-13.8 mV	10.57 ft	400.00 ml/min

10/11/2021 2:33 PM	03:40:00	6.57 pH	22.75 °C	183.51 µS/cm	0.07 mg/L	3.12 NTU	-14.0 mV	10.57 ft	400.00 ml/min
10/11/2021 2:38 PM	03:45:00	6.58 pH	22.70 °C	185.72 µS/cm	0.06 mg/L	3.05 NTU	-14.2 mV	10.57 ft	400.00 ml/min
10/11/2021 2:43 PM	03:50:00	6.58 pH	22.70 °C	184.07 µS/cm	0.07 mg/L	2.91 NTU	-14.8 mV	10.57 ft	400.00 ml/min
10/11/2021 2:48 PM	03:55:00	6.58 pH	22.66 °C	184.75 µS/cm	0.06 mg/L	2.82 NTU	-15.1 mV	10.57 ft	400.00 ml/min
10/11/2021 2:53 PM	04:00:00	6.59 pH	22.73 °C	183.70 µS/cm	0.06 mg/L	2.68 NTU	-15.2 mV	10.57 ft	400.00 ml/min
10/11/2021 2:58 PM	04:05:00	6.59 pH	22.84 °C	183.95 µS/cm	0.07 mg/L	2.55 NTU	-15.8 mV	10.57 ft	400.00 ml/min
10/11/2021 3:03 PM	04:10:00	6.59 pH	22.80 °C	183.87 µS/cm	0.06 mg/L	2.47 NTU	-15.9 mV	10.57 ft	400.00 ml/min
10/11/2021 3:08 PM	04:15:00	6.60 pH	22.79 °C	183.73 µS/cm	0.07 mg/L	2.42 NTU	-16.2 mV	10.57 ft	400.00 ml/min
10/11/2021 3:13 PM	04:20:00	6.59 pH	22.91 °C	182.95 µS/cm	0.06 mg/L	2.38 NTU	-16.1 mV	10.57 ft	400.00 ml/min
10/11/2021 3:18 PM	04:25:00	6.59 pH	22.89 °C	182.02 µS/cm	0.06 mg/L	2.21 NTU	-16.1 mV	10.57 ft	400.00 ml/min
10/11/2021 3:23 PM	04:30:00	6.59 pH	22.84 °C	184.28 µS/cm	0.07 mg/L	2.15 NTU	-16.0 mV	10.57 ft	400.00 ml/min
10/11/2021 3:28 PM	04:35:00	6.60 pH	22.82 °C	183.37 µS/cm	0.07 mg/L	2.10 NTU	-16.1 mV	10.57 ft	400.00 ml/min
10/11/2021 3:33 PM	04:40:00	6.60 pH	22.82 °C	183.02 µS/cm	0.07 mg/L	2.04 NTU	-16.5 mV	10.57 ft	400.00 ml/min
10/11/2021 3:38 PM	04:45:00	6.61 pH	22.76 °C	182.55 µS/cm	0.06 mg/L	1.98 NTU	-16.7 mV	10.57 ft	400.00 ml/min
10/11/2021 3:43 PM	04:50:00	6.61 pH	22.77 °C	183.57 µS/cm	0.06 mg/L	1.97 NTU	-16.8 mV	10.57 ft	400.00 ml/min
10/11/2021 3:48 PM	04:55:00	6.61 pH	22.71 °C	181.06 µS/cm	0.06 mg/L	1.93 NTU	-17.1 mV	10.57 ft	400.00 ml/min
10/11/2021 3:53 PM	05:00:00	6.61 pH	22.71 °C	183.04 µS/cm	0.07 mg/L	1.87 NTU	-17.0 mV	10.57 ft	400.00 ml/min
10/11/2021 3:58 PM	05:05:00	6.60 pH	22.71 °C	181.47 µS/cm	0.06 mg/L	1.84 NTU	-16.9 mV	10.57 ft	400.00 ml/min
10/11/2021 4:03 PM	05:10:00	6.61 pH	22.71 °C	180.05 µS/cm	0.06 mg/L	1.81 NTU	-17.0 mV	10.57 ft	400.00 ml/min
10/11/2021 4:08 PM	05:15:00	6.61 pH	22.69 °C	183.87 µS/cm	0.07 mg/L	1.81 NTU	-16.9 mV	10.57 ft	400.00 ml/min
10/11/2021 4:13 PM	05:20:00	6.61 pH	22.65 °C	181.96 µS/cm	0.06 mg/L	1.80 NTU	-17.0 mV	10.57 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-5D	Sample time @ 1620. Sunny 88.

Low-Flow Test Report:

Test Date / Time: 10/11/2021 11:39:59 AM

Project: Watson

Operator Name: Brett Surles

Location Name: Watson APMW-3d Well Diameter: 2 in Screen Length: 5 ft Top of Screen: 88.1 ft Total Depth: 93.1 ft Initial Depth to Water: 6.8 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 90.6 ft Estimated Total Volume Pumped: 16 liter Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 1.57 ft	Instrument Used: Aqua TROLL 400 Serial Number: 800306
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Test Notes:

Weather Conditions:

Partly cloudy 87

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	+/- 10	+/- 0.2	
10/11/2021 11:39 AM	00:00	6.45 pH	27.59 °C	263.45 µS/cm	1.35 mg/L	1.96 NTU	51.4 mV	8.12 ft	400.00 ml/min
10/11/2021 11:44 AM	05:00	6.51 pH	24.81 °C	277.52 µS/cm	0.26 mg/L	0.95 NTU	6.1 mV	8.35 ft	400.00 ml/min
10/11/2021 11:49 AM	10:00	6.58 pH	24.67 °C	278.45 µS/cm	0.22 mg/L	0.66 NTU	-20.9 mV	8.35 ft	400.00 ml/min
10/11/2021 11:54 AM	15:00	6.61 pH	24.58 °C	280.71 µS/cm	0.19 mg/L	0.41 NTU	-43.7 mV	8.36 ft	400.00 ml/min
10/11/2021 11:59 AM	20:00	6.64 pH	24.49 °C	282.15 µS/cm	0.18 mg/L	0.58 NTU	-58.0 mV	8.37 ft	400.00 ml/min
10/11/2021 12:04 PM	25:00	6.68 pH	24.47 °C	283.03 µS/cm	0.18 mg/L	0.44 NTU	-67.6 mV	8.37 ft	400.00 ml/min
10/11/2021 12:09 PM	30:00	6.71 pH	24.43 °C	282.45 µS/cm	0.17 mg/L	0.49 NTU	-74.2 mV	8.37 ft	400.00 ml/min
10/11/2021 12:14 PM	35:00	6.74 pH	24.31 °C	283.39 µS/cm	0.17 mg/L	0.32 NTU	-78.6 mV	8.37 ft	400.00 ml/min
10/11/2021 12:19 PM	40:00	6.76 pH	24.31 °C	283.48 µS/cm	0.17 mg/L	0.45 NTU	-82.0 mV	8.37 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-3D	Sample@1220

Low-Flow Test Report:

Test Date / Time: 10/12/2021 7:09:58 AM

Project: Plant Watson

Operator Name: Philip Evans

Location Name: Plant Watson APMW-7 Well Diameter: 2 in Screen Length: 10 ft Top of Screen: 27.4 ft Total Depth: 37.4 ft Initial Depth to Water: 11.2 ft	Pump Type: QED Tubing Type: PE Pump Intake From TOC: 32.4 ft Estimated Total Volume Pumped: 28000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.72 ft	Instrument Used: Aqua TROLL 400 Serial Number: 817728
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Test Notes:

Sample time @ 0825. Sunny 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	+/- 10	+/- 0.2	
10/12/2021 7:09 AM	00:00	6.26 pH	23.88 °C	11,435 µS/cm	0.38 mg/L	4.26 NTU	111.7 mV	11.52 ft	400.00 ml/min
10/12/2021 7:14 AM	05:00	6.18 pH	22.35 °C	11,420 µS/cm	0.16 mg/L	1.05 NTU	52.3 mV	11.65 ft	400.00 ml/min
10/12/2021 7:19 AM	10:00	6.26 pH	22.20 °C	11,410 µS/cm	0.13 mg/L	0.88 NTU	11.3 mV	11.74 ft	400.00 ml/min
10/12/2021 7:24 AM	15:00	6.38 pH	22.13 °C	11,402 µS/cm	0.12 mg/L	0.40 NTU	-18.7 mV	11.76 ft	400.00 ml/min
10/12/2021 7:29 AM	20:00	6.52 pH	22.09 °C	11,405 µS/cm	0.11 mg/L	0.32 NTU	-42.7 mV	11.80 ft	400.00 ml/min
10/12/2021 7:34 AM	25:00	6.60 pH	22.09 °C	11,415 µS/cm	0.10 mg/L	0.36 NTU	-63.6 mV	11.84 ft	400.00 ml/min
10/12/2021 7:39 AM	30:00	6.63 pH	22.08 °C	11,406 µS/cm	0.10 mg/L	0.34 NTU	-82.1 mV	11.86 ft	400.00 ml/min
10/12/2021 7:44 AM	35:00	6.64 pH	22.08 °C	11,473 µS/cm	0.09 mg/L	0.35 NTU	-98.6 mV	11.88 ft	400.00 ml/min
10/12/2021 7:49 AM	40:00	6.63 pH	22.05 °C	11,496 µS/cm	0.09 mg/L	0.38 NTU	-112.8 mV	11.90 ft	400.00 ml/min
10/12/2021 7:54 AM	45:00	6.61 pH	22.06 °C	11,524 µS/cm	0.09 mg/L	0.38 NTU	-124.6 mV	11.90 ft	400.00 ml/min
10/12/2021 7:59 AM	50:00	6.59 pH	22.07 °C	11,527 µS/cm	0.09 mg/L	0.41 NTU	-133.7 mV	11.92 ft	400.00 ml/min
10/12/2021 8:04 AM	55:00	6.58 pH	22.08 °C	11,523 µS/cm	0.09 mg/L	0.40 NTU	-141.0 mV	11.92 ft	400.00 ml/min
10/12/2021 8:09 AM	01:00:00	6.55 pH	22.08 °C	11,543 µS/cm	0.08 mg/L	0.42 NTU	-147.0 mV	11.92 ft	400.00 ml/min
10/12/2021 8:14 AM	01:05:00	6.53 pH	22.09 °C	11,586 µS/cm	0.08 mg/L	0.47 NTU	-151.8 mV	11.92 ft	400.00 ml/min
10/12/2021 8:19 AM	01:10:00	6.51 pH	22.12 °C	11,602 µS/cm	0.08 mg/L	0.46 NTU	-156.8 mV	11.92 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-7	Sample time @ 0825. Sunny 75.

Low-Flow Test Report:

Test Date / Time: 10/12/2021 7:17:53 AM

Project: Watson

Operator Name: Brett Surles

Location Name: Watson APMW-9 Well Diameter: 2 in Screen Length: 10 ft Top of Screen: 32.5 ft Total Depth: 42.5 ft Initial Depth to Water: 20.75 ft	Pump Type: BP Tubing Type: PE Pump Intake From TOC: 37.5 m Estimated Total Volume Pumped: 14 liter Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.05 ft	Instrument Used: Aqua TROLL 400 Serial Number: 800306
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Test Notes:

Weather Conditions:

Sunny 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	+/- 10	+/- 0.2	
10/12/2021 7:17 AM	00:00	5.66 pH	24.98 °C	10,201 µS/cm	3.00 mg/L	3.97 NTU	151.0 mV	20.80 ft	400.00 ml/min
10/12/2021 7:22 AM	05:00	5.93 pH	22.96 °C	10,223 µS/cm	0.71 mg/L	0.43 NTU	84.7 mV	20.80 ft	400.00 ml/min
10/12/2021 7:27 AM	10:00	6.00 pH	22.80 °C	10,352 µS/cm	0.27 mg/L	0.33 NTU	40.9 mV	20.80 ft	400.00 ml/min
10/12/2021 7:32 AM	15:00	6.05 pH	22.77 °C	10,375 µS/cm	0.24 mg/L	0.39 NTU	16.6 mV	20.80 ft	400.00 ml/min
10/12/2021 7:37 AM	20:00	6.10 pH	22.75 °C	10,406 µS/cm	0.23 mg/L	0.34 NTU	4.4 mV	20.80 ft	400.00 ml/min
10/12/2021 7:42 AM	25:00	6.13 pH	22.74 °C	10,428 µS/cm	0.22 mg/L	0.29 NTU	-2.5 mV	20.80 ft	400.00 ml/min
10/12/2021 7:47 AM	30:00	6.15 pH	22.76 °C	10,379 µS/cm	0.21 mg/L	0.35 NTU	-6.8 mV	20.80 ft	400.00 ml/min
10/12/2021 7:52 AM	35:00	6.16 pH	22.77 °C	10,402 µS/cm	0.20 mg/L	0.32 NTU	-9.8 mV	20.80 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-9	Sample @0754
APMW-9	Sample @0754

Low-Flow Test Report:

Test Date / Time: 10/12/2021 8:21:19 AM

Project: Watson

Operator Name: Brett Surles

Location Name: Watson APMW-8d Well Diameter: 2 in Screen Length: 5 ft Top of Screen: 87.5 ft Total Depth: 92.5 ft Initial Depth to Water: 19.3 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 90 m Estimated Total Volume Pumped: 10 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.85 ft	Instrument Used: Aqua TROLL 400 Serial Number: 800306
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Test Notes:

Weather Conditions:

Sunny 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	+/- 10	+/- 0.2	
10/12/2021 8:21 AM	00:00	7.03 pH	23.54 °C	250.25 µS/cm	0.75 mg/L	4.38 NTU	-69.4 mV	20.15 ft	400.00 ml/min
10/12/2021 8:26 AM	05:00	6.94 pH	22.80 °C	246.22 µS/cm	0.21 mg/L	1.78 NTU	-96.2 mV	20.15 ft	400.00 ml/min
10/12/2021 8:31 AM	10:00	6.94 pH	22.75 °C	245.38 µS/cm	0.18 mg/L	0.68 NTU	-105.2 mV	20.15 ft	400.00 ml/min
10/12/2021 8:36 AM	15:00	6.95 pH	22.78 °C	245.05 µS/cm	0.16 mg/L	0.55 NTU	-112.1 mV	20.15 ft	400.00 ml/min
10/12/2021 8:41 AM	20:00	6.95 pH	22.83 °C	244.86 µS/cm	0.15 mg/L	0.61 NTU	-116.3 mV	20.15 ft	400.00 ml/min
10/12/2021 8:46 AM	25:00	6.95 pH	22.91 °C	244.83 µS/cm	0.15 mg/L	0.49 NTU	-119.1 mV	20.15 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-8d	Sample @0847

Low-Flow Test Report:

Test Date / Time: 10/12/2021 8:49:41 AM

Project: Plant Watson

Operator Name: Philip Evans

Location Name: Plant Watson APMW-5 Well Diameter: 2 in Screen Length: 5 ft Top of Screen: 26.6 ft Total Depth: 36.6 ft Initial Depth to Water: 6.9 ft	Pump Type: QED Tubing Type: PE Pump Intake From TOC: 31.6 ft Estimated Total Volume Pumped: 8000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.12 ft	Instrument Used: Aqua TROLL 400 Serial Number: 817728
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Test Notes:

Sample time @ 0915. 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	+/- 10	+/- 0.2	
10/12/2021 8:49 AM	00:00	6.68 pH	22.44 °C	23,332 µS/cm	0.25 mg/L	0.96 NTU	-35.6 mV	7.02 ft	400.00 ml/min
10/12/2021 8:54 AM	05:00	6.64 pH	22.44 °C	23,476 µS/cm	0.20 mg/L	0.75 NTU	-40.2 mV	7.02 ft	400.00 ml/min
10/12/2021 8:59 AM	10:00	6.60 pH	22.42 °C	23,497 µS/cm	0.17 mg/L	0.62 NTU	-43.3 mV	7.02 ft	400.00 ml/min
10/12/2021 9:04 AM	15:00	6.57 pH	22.35 °C	23,567 µS/cm	0.16 mg/L	0.60 NTU	-45.5 mV	7.02 ft	400.00 ml/min
10/12/2021 9:09 AM	20:00	6.55 pH	22.32 °C	23,563 µS/cm	0.15 mg/L	0.54 NTU	-47.2 mV	7.02 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-5	Sample time @ 0915. Sunny 78.

Low-Flow Test Report:

Test Date / Time: 10/12/2021 10:18:52 AM

Project: Plant Watson

Operator Name: Philip Evans

Location Name: Plant Watson APMW-1R Well Diameter: 2 in Screen Length: 5 ft Top of Screen: 33.6 ft Total Depth: 38.6 ft Initial Depth to Water: 23.92 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 36.1 ft Estimated Total Volume Pumped: 12000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.77 ft	Instrument Used: Aqua TROLL 400 Serial Number: 817728
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Test Notes:

Sample time@ 1050. Pc 82.

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	+/- 10	+/- 0.2	
10/12/2021 10:18 AM	00:00	6.20 pH	25.02 °C	5,783.5 µS/cm	0.36 mg/L	0.75 NTU	-24.7 mV	24.48 ft	400.00 ml/min
10/12/2021 10:23 AM	05:00	6.10 pH	23.80 °C	6,032.2 µS/cm	0.15 mg/L	0.56 NTU	-40.0 mV	24.50 ft	400.00 ml/min
10/12/2021 10:28 AM	10:00	6.35 pH	23.60 °C	7,523.2 µS/cm	0.14 mg/L	0.55 NTU	-46.7 mV	24.52 ft	400.00 ml/min
10/12/2021 10:33 AM	15:00	6.42 pH	23.51 °C	7,672.9 µS/cm	0.13 mg/L	0.52 NTU	-56.3 mV	24.55 ft	400.00 ml/min
10/12/2021 10:38 AM	20:00	6.43 pH	23.47 °C	7,698.1 µS/cm	0.12 mg/L	0.59 NTU	-63.3 mV	24.60 ft	400.00 ml/min
10/12/2021 10:43 AM	25:00	6.43 pH	23.48 °C	7,659.1 µS/cm	0.11 mg/L	0.66 NTU	-69.0 mV	24.64 ft	400.00 ml/min
10/12/2021 10:48 AM	30:00	6.43 pH	23.50 °C	7,682.3 µS/cm	0.11 mg/L	0.68 NTU	-73.2 mV	24.69 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-1R	Sample time@ 1050. Pc 82.

Low-Flow Test Report:

Test Date / Time: 10/12/2021 10:28:30 AM

Project: Watson

Operator Name: Brett Surles

Location Name: Watson APMW-10d Well Diameter: 2 in Screen Length: 5 ft Top of Screen: 201.4 ft Total Depth: 206.4 ft Initial Depth to Water: 14 ft	Pump Type: BP Tubing Type: PE Pump Intake From TOC: 203.9 ft Estimated Total Volume Pumped: 8 liter Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.2 ft	Instrument Used: Aqua TROLL 400 Serial Number: 800306
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Test Notes:

Weather Conditions:

Cloudy 84

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	+/- 10	+/- 0.2	
10/12/2021 10:28 AM	00:00	8.53 pH	26.95 °C	286.54 µS/cm	4.14 mg/L	14.10 NTU	12.8 mV	14.18 ft	2.00 ml/min
10/12/2021 10:33 AM	05:00	8.82 pH	26.14 °C	283.56 µS/cm	1.95 mg/L	11.60 NTU	1.1 mV	14.20 ft	2.00 ml/min
10/12/2021 10:38 AM	10:00	8.89 pH	25.81 °C	286.15 µS/cm	1.13 mg/L	12.00 NTU	-5.7 mV	14.20 ft	2.00 ml/min
10/12/2021 10:43 AM	15:00	8.90 pH	25.72 °C	286.42 µS/cm	0.79 mg/L	9.18 NTU	-11.6 mV	14.20 ft	2.00 ml/min
10/12/2021 10:48 AM	20:00	8.91 pH	25.66 °C	287.87 µS/cm	0.63 mg/L	8.36 NTU	-16.4 mV	14.20 ft	2.00 ml/min
10/12/2021 10:53 AM	25:00	8.92 pH	25.62 °C	288.08 µS/cm	0.53 mg/L	7.20 NTU	-20.7 mV	14.20 ft	2.00 ml/min
10/12/2021 10:58 AM	30:00	8.92 pH	25.52 °C	287.58 µS/cm	0.47 mg/L	6.98 NTU	-24.1 mV	14.20 ft	2.00 ml/min
10/12/2021 11:03 AM	35:00	8.92 pH	25.48 °C	287.53 µS/cm	0.42 mg/L	5.24 NTU	-27.1 mV	14.20 ft	2.00 ml/min
10/12/2021 11:08 AM	40:00	8.92 pH	25.58 °C	287.92 µS/cm	0.38 mg/L	4.77 NTU	-29.9 mV	14.20 ft	2.00 ml/min

Samples

Sample ID:	Description:
APMW-10d	Sample@1109

Low-Flow Test Report:

Test Date / Time: 10/12/2021 12:00:05 PM

Project: Plant Watson CCR

Operator Name: Philip Evans

Location Name: Plant Watson APMW-2D Well Diameter: 2 in Screen Length: 10 ft Top of Screen: 152.8 ft Total Depth: 162.8 ft Initial Depth to Water: 14.42 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 157.8 ft Estimated Total Volume Pumped: 52000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.28 ft	Instrument Used: Aqua TROLL 400 Serial Number: 817728
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Test Notes:

Sample time @ 1415. Sunny 85.

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	+/- 10	+/- 0.2	
10/12/2021 12:00 PM	00:00	7.89 pH	26.50 °C	200.70 µS/cm	1.08 mg/L	19.00 NTU	-51.7 mV	14.70 ft	400.00 ml/min
10/12/2021 12:05 PM	05:00	7.48 pH	24.14 °C	208.29 µS/cm	0.28 mg/L	18.30 NTU	-77.5 mV	14.70 ft	400.00 ml/min
10/12/2021 12:10 PM	10:00	7.56 pH	23.98 °C	208.90 µS/cm	0.22 mg/L	17.50 NTU	-92.3 mV	14.70 ft	400.00 ml/min
10/12/2021 12:15 PM	15:00	7.60 pH	23.83 °C	206.18 µS/cm	0.20 mg/L	8.64 NTU	-97.0 mV	14.70 ft	400.00 ml/min
10/12/2021 12:20 PM	20:00	7.63 pH	23.81 °C	204.20 µS/cm	0.18 mg/L	5.53 NTU	-98.0 mV	14.70 ft	400.00 ml/min
10/12/2021 12:25 PM	25:00	7.64 pH	23.79 °C	202.66 µS/cm	0.17 mg/L	5.06 NTU	-97.0 mV	14.70 ft	400.00 ml/min
10/12/2021 12:30 PM	30:00	7.65 pH	23.76 °C	201.44 µS/cm	0.16 mg/L	4.85 NTU	-96.0 mV	14.70 ft	400.00 ml/min
10/12/2021 12:35 PM	35:00	7.65 pH	23.83 °C	201.10 µS/cm	0.15 mg/L	4.31 NTU	-96.1 mV	14.70 ft	400.00 ml/min
10/12/2021 12:40 PM	40:00	7.65 pH	23.99 °C	199.81 µS/cm	0.14 mg/L	4.07 NTU	-95.6 mV	14.70 ft	400.00 ml/min
10/12/2021 12:45 PM	45:00	7.64 pH	24.01 °C	198.47 µS/cm	0.13 mg/L	4.85 NTU	-95.5 mV	14.70 ft	400.00 ml/min
10/12/2021 12:50 PM	50:00	7.63 pH	23.98 °C	197.89 µS/cm	0.12 mg/L	3.64 NTU	-95.7 mV	14.70 ft	400.00 ml/min
10/12/2021 12:55 PM	55:00	7.62 pH	23.96 °C	196.62 µS/cm	0.12 mg/L	3.48 NTU	-95.9 mV	14.70 ft	400.00 ml/min
10/12/2021 1:00 PM	01:00:00	7.63 pH	24.14 °C	195.92 µS/cm	0.11 mg/L	3.10 NTU	-97.0 mV	14.70 ft	400.00 ml/min
10/12/2021 1:05 PM	01:05:00	7.62 pH	24.18 °C	196.05 µS/cm	0.11 mg/L	2.95 NTU	-98.0 mV	14.70 ft	400.00 ml/min
10/12/2021 1:10 PM	01:10:00	7.61 pH	24.19 °C	195.40 µS/cm	0.11 mg/L	2.85 NTU	-98.8 mV	14.70 ft	400.00 ml/min

10/12/2021 1:15 PM	01:15:00	7.61 pH	24.27 °C	195.20 µS/cm	0.10 mg/L	2.71 NTU	-100.5 mV	14.70 ft	400.00 ml/min
10/12/2021 1:20 PM	01:20:00	7.60 pH	24.31 °C	193.67 µS/cm	0.10 mg/L	2.58 NTU	-101.5 mV	14.70 ft	400.00 ml/min
10/12/2021 1:25 PM	01:25:00	7.61 pH	24.14 °C	193.65 µS/cm	0.09 mg/L	2.45 NTU	-102.8 mV	14.70 ft	400.00 ml/min
10/12/2021 1:30 PM	01:30:00	7.60 pH	24.23 °C	193.58 µS/cm	0.09 mg/L	2.29 NTU	-104.8 mV	14.70 ft	400.00 ml/min
10/12/2021 1:35 PM	01:35:00	7.59 pH	24.15 °C	193.63 µS/cm	0.09 mg/L	2.18 NTU	-106.2 mV	14.70 ft	400.00 ml/min
10/12/2021 1:40 PM	01:40:00	7.59 pH	24.19 °C	193.83 µS/cm	0.09 mg/L	2.04 NTU	-108.0 mV	14.70 ft	400.00 ml/min
10/12/2021 1:45 PM	01:45:00	7.58 pH	24.23 °C	192.00 µS/cm	0.08 mg/L	1.96 NTU	-109.1 mV	14.70 ft	400.00 ml/min
10/12/2021 1:50 PM	01:50:00	7.58 pH	24.24 °C	192.40 µS/cm	0.08 mg/L	1.78 NTU	-110.9 mV	14.70 ft	400.00 ml/min
10/12/2021 1:55 PM	01:55:00	7.58 pH	24.28 °C	190.98 µS/cm	0.08 mg/L	1.63 NTU	-112.6 mV	14.70 ft	400.00 ml/min
10/12/2021 2:00 PM	02:00:00	7.57 pH	24.24 °C	192.09 µS/cm	0.08 mg/L	1.56 NTU	-113.7 mV	14.70 ft	400.00 ml/min
10/12/2021 2:05 PM	02:05:00	7.58 pH	24.28 °C	192.26 µS/cm	0.08 mg/L	1.60 NTU	-115.8 mV	14.70 ft	400.00 ml/min
10/12/2021 2:10 PM	02:10:00	7.57 pH	24.32 °C	191.03 µS/cm	0.08 mg/L	1.62 NTU	-116.5 mV	14.70 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-2D	Sample time @ 1415. Sunny 85.

Low-Flow Test Report:

Test Date / Time: 10/12/2021 12:36:22 PM

Project: Watson

Operator Name: Brett Surles

Location Name: Watson APMW-10 Well Diameter: 2 in Screen Length: 10 ft Top of Screen: 22.9 ft Total Depth: 32.9 ft Initial Depth to Water: 20.41 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 27.9 ft Estimated Total Volume Pumped: 8 liter Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.19 ft	Instrument Used: Aqua TROLL 400 Serial Number: 800306
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Test Notes:

Weather Conditions:

Cloudy 88

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	+/- 10	+/- 0.2	
10/12/2021 12:36 PM	00:00	6.53 pH	27.41 °C	3,173.0 µS/cm	0.35 mg/L	2.90 NTU	-58.3 mV	20.60 ft	400.00 ml/min
10/12/2021 12:41 PM	05:00	6.67 pH	25.76 °C	3,326.8 µS/cm	0.19 mg/L	1.10 NTU	-76.5 mV	20.60 ft	400.00 ml/min
10/12/2021 12:46 PM	10:00	6.73 pH	25.38 °C	3,328.7 µS/cm	0.16 mg/L	0.84 NTU	-83.5 mV	20.60 ft	400.00 ml/min
10/12/2021 12:51 PM	15:00	6.74 pH	25.49 °C	3,346.4 µS/cm	0.15 mg/L	0.77 NTU	-87.8 mV	20.60 ft	400.00 ml/min
10/12/2021 12:56 PM	20:00	6.75 pH	25.37 °C	3,332.2 µS/cm	0.14 mg/L	0.59 NTU	-89.9 mV	20.60 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-10	Sample @1257, DUP-02@1305

Low-Flow Test Report:

Test Date / Time: 10/12/2021 3:01:13 PM

Project: Plant Watson CCR

Operator Name: Philip Evans

Location Name: Plant Watson APMW-2 Well Diameter: 2 in Screen Length: 10 ft Top of Screen: 32.9 ft Total Depth: 42.9 ft Initial Depth to Water: 22.6 ft	Pump Type: QED Tubing Type: PE Pump Intake From TOC: 37.9 ft Estimated Total Volume Pumped: 10000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.07 ft	Instrument Used: Aqua TROLL 400 Serial Number: 817728
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Test Notes:

Sample time @ 1530. Sunny 85.

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	+/- 10	+/- 0.2	
10/12/2021 3:01 PM	00:00	4.86 pH	29.42 °C	6,817.4 µS/cm	1.70 mg/L	0.54 NTU	111.0 mV	22.67 ft	400.00 ml/min
10/12/2021 3:06 PM	05:00	5.61 pH	24.23 °C	7,259.0 µS/cm	0.22 mg/L	0.62 NTU	31.6 mV	22.67 ft	400.00 ml/min
10/12/2021 3:11 PM	10:00	5.74 pH	23.93 °C	7,380.9 µS/cm	0.16 mg/L	0.60 NTU	13.0 mV	22.67 ft	400.00 ml/min
10/12/2021 3:16 PM	15:00	5.81 pH	23.89 °C	7,432.0 µS/cm	0.14 mg/L	0.59 NTU	4.1 mV	22.67 ft	400.00 ml/min
10/12/2021 3:21 PM	20:00	5.86 pH	23.86 °C	7,418.3 µS/cm	0.13 mg/L	0.57 NTU	-0.9 mV	22.67 ft	400.00 ml/min
10/12/2021 3:26 PM	25:00	5.89 pH	23.83 °C	7,441.4 µS/cm	0.12 mg/L	0.56 NTU	-4.3 mV	22.67 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-2	Sample time @ 1530. Sunny 85.

Low-Flow Test Report:

Test Date / Time: 10/14/2021 7:41:04 AM

Project: Plant Watson CCR

Operator Name: Philip Evans

Location Name: Watson APMW-4D Well Diameter: 2 in Screen Length: 10 ft Top of Screen: 90.3 ft Total Depth: 100.3 ft Initial Depth to Water: 9.77 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 95.3 ft Estimated Total Volume Pumped: 14000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.18 ft	Instrument Used: Aqua TROLL 400 Serial Number: 817728
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Test Notes:

Sample time @ 0820. Sunny 70. EB-02@ 0735.

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	+/- 10	+/- 0.2	
10/14/2021 7:41 AM	00:00	5.82 pH	23.55 °C	22,874 µS/cm	0.41 mg/L	0.94 NTU	96.5 mV	9.95 ft	400.00 ml/min
10/14/2021 7:46 AM	05:00	6.14 pH	22.26 °C	23,350 µS/cm	0.22 mg/L	0.75 NTU	9.3 mV	9.95 ft	400.00 ml/min
10/14/2021 7:51 AM	10:00	6.29 pH	22.17 °C	23,360 µS/cm	0.19 mg/L	0.62 NTU	-21.1 mV	9.95 ft	400.00 ml/min
10/14/2021 7:56 AM	15:00	6.40 pH	22.15 °C	23,370 µS/cm	0.15 mg/L	0.54 NTU	-36.2 mV	9.95 ft	400.00 ml/min
10/14/2021 8:01 AM	20:00	6.48 pH	22.09 °C	23,446 µS/cm	0.13 mg/L	0.50 NTU	-44.9 mV	9.95 ft	400.00 ml/min
10/14/2021 8:06 AM	25:00	6.55 pH	22.08 °C	23,480 µS/cm	0.13 mg/L	0.48 NTU	-51.1 mV	9.95 ft	400.00 ml/min
10/14/2021 8:11 AM	30:00	6.62 pH	22.08 °C	23,390 µS/cm	0.13 mg/L	0.45 NTU	-56.2 mV	9.95 ft	400.00 ml/min
10/14/2021 8:16 AM	35:00	6.67 pH	22.13 °C	23,570 µS/cm	0.12 mg/L	0.48 NTU	-60.2 mV	9.95 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-4D	Sample time @ 0820. Sunny 70. EB-02@ 0735.

Low-Flow Test Report:

Test Date / Time: 10/14/2021 7:41:34 AM

Project: Watson

Operator Name: Brett Surles

Location Name: Watson APMW-6d Well Diameter: 2 in Screen Length: 5 ft Top of Screen: 100.9 ft Total Depth: 105.9 ft Initial Depth to Water: 6.61 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 103.4 m Estimated Total Volume Pumped: 18 liter Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.02 ft	Instrument Used: Aqua TROLL 400 Serial Number: 800306
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Test Notes:

Weather Conditions:

Sunny 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	+/- 10	+/- 0.2	
10/14/2021 7:41 AM	00:00	6.43 pH	24.13 °C	254.62 µS/cm	0.54 mg/L	3.96 NTU	53.7 mV	6.63 ft	400.00 ml/min
10/14/2021 7:46 AM	05:00	6.53 pH	22.79 °C	260.46 µS/cm	0.21 mg/L	1.62 NTU	20.7 mV	6.63 ft	400.00 ml/min
10/14/2021 7:51 AM	10:00	6.62 pH	22.62 °C	260.88 µS/cm	0.18 mg/L	1.56 NTU	-3.9 mV	6.63 ft	400.00 ml/min
10/14/2021 7:56 AM	15:00	6.62 pH	22.54 °C	260.99 µS/cm	0.16 mg/L	1.00 NTU	-23.2 mV	6.63 ft	400.00 ml/min
10/14/2021 8:01 AM	20:00	6.66 pH	22.49 °C	261.44 µS/cm	0.15 mg/L	0.93 NTU	-40.5 mV	6.63 ft	400.00 ml/min
10/14/2021 8:06 AM	25:00	6.70 pH	22.49 °C	261.06 µS/cm	0.14 mg/L	0.81 NTU	-54.1 mV	6.63 ft	400.00 ml/min
10/14/2021 8:11 AM	30:00	6.70 pH	22.51 °C	261.39 µS/cm	0.13 mg/L	0.72 NTU	-62.0 mV	6.63 ft	400.00 ml/min
10/14/2021 8:16 AM	35:00	6.75 pH	22.55 °C	260.95 µS/cm	0.13 mg/L	0.66 NTU	-70.1 mV	6.63 ft	400.00 ml/min
10/14/2021 8:21 AM	40:00	6.77 pH	22.59 °C	260.90 µS/cm	0.13 mg/L	0.71 NTU	-75.1 mV	6.63 ft	400.00 ml/min
10/14/2021 8:26 AM	45:00	6.76 pH	22.71 °C	250.31 µS/cm	0.13 mg/L	0.65 NTU	-73.0 mV	6.63 ft	400.00 ml/min

Samples

Sample ID:	Description:
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APMW-6D

Sample @0829, DUP-03@0729

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/14/2021 9:17:31 AM

Project: Plant Watson CCR

Operator Name: Philip Evans

Location Name: Plant Watson APMW-4 Well Diameter: 2 in Screen Length: 27.05 ft Top of Screen: 10 ft Total Depth: 37.05 ft Initial Depth to Water: 11.48 ft	Pump Type: QED Tubing Type: PE Pump Intake From TOC: 32.05 ft Estimated Total Volume Pumped: 16000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.02 ft	Instrument Used: Aqua TROLL 400 Serial Number: 817728
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Test Notes:

Sample time @ 1000. Sunny 74. FB-02@ 1005.

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	+/- 10	+/- 0.2	
10/14/2021 9:17 AM	00:00	6.77 pH	25.05 °C	9,278.9 µS/cm	1.62 mg/L	1.20 NTU	-41.6 mV	11.50 ft	400.00 ml/min
10/14/2021 9:22 AM	05:00	6.89 pH	23.38 °C	9,164.7 µS/cm	1.11 mg/L	0.86 NTU	-160.9 mV	11.50 ft	400.00 ml/min
10/14/2021 9:27 AM	10:00	7.02 pH	23.27 °C	9,177.8 µS/cm	0.94 mg/L	0.52 NTU	-233.8 mV	11.50 ft	400.00 ml/min
10/14/2021 9:32 AM	15:00	6.93 pH	23.20 °C	9,113.6 µS/cm	0.66 mg/L	0.44 NTU	-248.4 mV	11.50 ft	400.00 ml/min
10/14/2021 9:37 AM	20:00	6.80 pH	23.16 °C	9,179.6 µS/cm	0.64 mg/L	0.39 NTU	-252.6 mV	11.50 ft	400.00 ml/min
10/14/2021 9:42 AM	25:00	6.67 pH	23.25 °C	9,198.9 µS/cm	0.90 mg/L	0.40 NTU	-253.4 mV	11.50 ft	400.00 ml/min
10/14/2021 9:47 AM	30:00	6.56 pH	23.16 °C	9,131.4 µS/cm	0.75 mg/L	0.38 NTU	-255.2 mV	11.50 ft	400.00 ml/min
10/14/2021 9:52 AM	35:00	6.48 pH	23.25 °C	9,144.0 µS/cm	0.59 mg/L	0.38 NTU	-255.8 mV	11.50 ft	400.00 ml/min
10/14/2021 9:57 AM	40:00	6.41 pH	23.15 °C	9,128.5 µS/cm	0.62 mg/L	0.36 NTU	-257.4 mV	11.50 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-4	Sample time @ 1000. Sunny 74. FB-02@ 1005.

Low-Flow Test Report:

Test Date / Time: 10/14/2021 10:12:10 AM

Project: Watson

Operator Name: Brett Surles

Location Name: Watson APMW-11 Well Diameter: 2 in Screen Length: 10 ft Top of Screen: 41.6 ft Total Depth: 51.6 ft Initial Depth to Water: 17.27 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 46.6 m Estimated Total Volume Pumped: 8 liter Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.02 ft	Instrument Used: Aqua TROLL 400 Serial Number: 800306
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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	+/- 10	+/- 0.2	
10/14/2021 10:12 AM	00:00	6.66 pH	26.80 °C	118.26 µS/cm	1.46 mg/L	3.64 NTU	6.9 mV	17.29 ft	400.00 ml/min
10/14/2021 10:17 AM	05:00	6.29 pH	23.80 °C	123.83 µS/cm	0.22 mg/L	1.77 NTU	9.8 mV	17.29 ft	400.00 ml/min
10/14/2021 10:22 AM	10:00	6.26 pH	23.57 °C	124.25 µS/cm	0.18 mg/L	2.63 NTU	8.3 mV	17.29 ft	400.00 ml/min
10/14/2021 10:27 AM	15:00	6.24 pH	23.59 °C	123.43 µS/cm	0.17 mg/L	1.88 NTU	10.2 mV	17.29 ft	400.00 ml/min
10/14/2021 10:32 AM	20:00	6.26 pH	23.59 °C	123.57 µS/cm	0.16 mg/L	1.52 NTU	9.8 mV	17.29 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-11	Sample@1033

Low-Flow Test Report:

Test Date / Time: 10/15/2021 8:55:08 AM

Project: Plant Watson CCR (2)

Operator Name: Philip Evans

Location Name: APMW-14 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 16.5 ft Total Depth: 21.5 ft Initial Depth to Water: 1.6 ft	Pump Type: QED Tubing Type: PE Pump Intake From TOC: 19 ft Estimated Total Volume Pumped: 20000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: -0.1 ft	Instrument Used: Aqua TROLL 400 Serial Number: 817728
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Test Notes:

Sample time 0948.

Weather Conditions:

Sunny 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	+/- 10	+/- 0.2	
10/15/2021 8:55 AM	00:00	5.43 pH	24.42 °C	8,534.2 µS/cm	1.70 mg/L	28.70 NTU	138.1 mV	1.60 ft	400.00 ml/min
10/15/2021 9:00 AM	05:00	6.42 pH	23.83 °C	552.62 µS/cm	0.22 mg/L	31.70 NTU	22.0 mV	1.40 ft	400.00 ml/min
10/15/2021 9:05 AM	10:00	5.99 pH	23.90 °C	132.74 µS/cm	0.17 mg/L	23.20 NTU	57.0 mV	1.42 ft	400.00 ml/min
10/15/2021 9:10 AM	15:00	5.70 pH	23.74 °C	8,576.4 µS/cm	0.14 mg/L	12.80 NTU	91.4 mV	1.42 ft	400.00 ml/min
10/15/2021 9:15 AM	20:00	5.80 pH	23.63 °C	8,757.7 µS/cm	0.13 mg/L	12.80 NTU	75.3 mV	1.42 ft	400.00 ml/min
10/15/2021 9:20 AM	25:00	5.86 pH	23.65 °C	8,922.0 µS/cm	0.12 mg/L	4.91 NTU	69.1 mV	1.42 ft	400.00 ml/min
10/15/2021 9:25 AM	30:00	5.89 pH	23.67 °C	9,014.9 µS/cm	0.12 mg/L	5.34 NTU	62.7 mV	1.42 ft	400.00 ml/min
10/15/2021 9:30 AM	35:00	5.91 pH	23.78 °C	9,101.4 µS/cm	0.11 mg/L	2.76 NTU	56.7 mV	1.45 ft	400.00 ml/min
10/15/2021 9:35 AM	40:00	5.93 pH	23.83 °C	9,209.7 µS/cm	0.11 mg/L	2.61 NTU	52.5 mV	1.47 ft	400.00 ml/min
10/15/2021 9:40 AM	45:00	5.95 pH	23.90 °C	9,231.7 µS/cm	0.11 mg/L	1.43 NTU	49.0 mV	1.49 ft	400.00 ml/min
10/15/2021 9:45 AM	50:00	5.97 pH	23.97 °C	9,288.2 µS/cm	0.10 mg/L	1.39 NTU	46.2 mV	1.50 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-14	Sample time 0948.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/15/2021 10:26:39 AM

Project: Plant Watson

Operator Name: Philip Evans

Location Name: APMW-16 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 19.5 ft Total Depth: 24.5 ft Initial Depth to Water: 1.48 ft	Pump Type: QED Tubing Type: PE Pump Intake From TOC: 19 ft Estimated Total Volume Pumped: 6900 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.06 ft	Instrument Used: Aqua TROLL 400 Serial Number: 817728
--	---	--

Test Notes:

Sample time@ 1045. Sunny 82.

Weather Conditions:

PC 82

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	+/- 10	+/- 0.2	
10/15/2021 10:26 AM	00:00	6.46 pH	23.97 °C	9,085.7 µS/cm	0.26 mg/L		-293.5 mV	1.48 ft	400.00 ml/min
10/15/2021 10:31 AM	05:00	6.50 pH	22.70 °C	9,321.5 µS/cm	0.21 mg/L	2.58 NTU	-320.7 mV	1.54 ft	400.00 ml/min
10/15/2021 10:36 AM	10:00	6.51 pH	22.71 °C	9,423.8 µS/cm	0.19 mg/L	1.57 NTU	-327.1 mV	1.54 ft	400.00 ml/min
10/15/2021 10:41 AM	15:00	6.51 pH	22.77 °C	9,445.6 µS/cm	0.18 mg/L	1.86 NTU	-329.0 mV	1.54 ft	400.00 ml/min
10/15/2021 10:43 AM	17:15	6.55 pH	22.71 °C	9,404.8 µS/cm	0.18 mg/L	1.86 NTU	-330.3 mV	1.54 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-15	Sample time@ 1045. Sunny 82.

Low-Flow Test Report:

Test Date / Time: 10/20/2021 9:39:20 AM

Project: Plant Watson

Operator Name: Philip Evans

Location Name: APMW-13 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 16.5 ft Total Depth: 21.5 ft Initial Depth to Water: 2.45 ft	Pump Type: QED Tubing Type: PE Pump Intake From TOC: 19 ft Estimated Total Volume Pumped: 6000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.08 ft	Instrument Used: Aqua TROLL 400 Serial Number: 817728
--	---	--

Test Notes:

Sample time @ 1000.

Weather Conditions:

PC 73

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	+/- 10	+/- 0.2	
10/20/2021 9:39 AM	00:00	5.40 pH	24.06 °C	5,422.1 µS/cm	1.01 mg/L	2.80 NTU	92.3 mV	2.53 ft	400.00 ml/min
10/20/2021 9:44 AM	05:00	5.74 pH	22.76 °C	5,552.9 µS/cm	0.26 mg/L	2.52 NTU	49.1 mV	2.53 ft	400.00 ml/min
10/20/2021 9:49 AM	10:00	5.84 pH	22.80 °C	5,555.9 µS/cm	0.22 mg/L	1.95 NTU	40.2 mV	2.53 ft	400.00 ml/min
10/20/2021 9:54 AM	15:00	5.89 pH	22.80 °C	5,553.8 µS/cm	0.20 mg/L	1.34 NTU	39.1 mV	2.53 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-13	Sample time @ 1000.

Low-Flow Test Report:

Test Date / Time: 10/20/2021 11:45:41 AM

Project: Plant Watson

Operator Name: Philip Evans

Location Name: APMW-15 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 20.5 m Total Depth: 25.5 ft Initial Depth to Water: 1.67 ft	Pump Type: QED Tubing Type: PE Pump Intake From TOC: 23 ft Estimated Total Volume Pumped: 9333.333 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: -0.02 ft	Instrument Used: Aqua TROLL 400 Serial Number: 817728
---	--	--

Test Notes:

Sample time@ 1210. PC 75.

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	+/- 10	+/- 0.2	
10/20/2021 11:45 AM	00:00	6.08 pH	33.04 °C	738.05 µS/cm	4.04 mg/L	5.50 NTU	-130.3 mV	1.68 ft	400.00 ml/min
10/20/2021 11:50 AM	05:00	6.53 pH	22.53 °C	8,206.9 µS/cm	0.18 mg/L	5.12 NTU	-337.0 mV	1.68 ft	400.00 ml/min
10/20/2021 11:55 AM	10:00	6.53 pH	21.79 °C	8,583.5 µS/cm	0.16 mg/L	2.62 NTU	-339.6 mV	1.67 ft	400.00 ml/min
10/20/2021 12:00 PM	15:00	6.54 pH	21.77 °C	8,701.9 µS/cm	0.15 mg/L	2.12 NTU	-340.6 mV	1.67 ft	400.00 ml/min
10/20/2021 12:05 PM	20:00	6.54 pH	21.73 °C	8,755.6 µS/cm	0.15 mg/L	1.94 NTU	-341.1 mV	1.65 ft	400.00 ml/min
10/20/2021 12:09 PM	23:20	6.54 pH	21.69 °C	8,765.8 µS/cm	0.15 mg/L	1.90 NTU	-341.5 mV	1.65 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-15	Sample time@ 1210. PC 75.

Low-Flow Test Report:

Test Date / Time: 10/20/2021 2:48:28 PM

Project: Plant Watson

Operator Name: Philip Evans

Location Name: Watson APMW-6R Well Diameter: 2 in Screen Length: 10 ft Top of Screen: 41.85 ft Total Depth: 51.85 ft Initial Depth to Water: 6.7 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 46.85 ft Estimated Total Volume Pumped: 10000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 2.28 ft	Instrument Used: Aqua TROLL 400 Serial Number: 817728
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Test Notes:

Sample time @ 1520. Cloudy 75. DUP-04 @ 1420.

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	+/- 10	+/- 0.2	
10/20/2021 2:48 PM	00:00	5.49 pH	26.14 °C	10,235 µS/cm	1.11 mg/L	2.54 NTU	9.8 mV	8.24 ft	400.00 ml/min
10/20/2021 2:53 PM	05:00	5.72 pH	23.72 °C	10,633 µS/cm	0.15 mg/L	1.66 NTU	-26.4 mV	8.80 ft	400.00 ml/min
10/20/2021 2:58 PM	10:00	5.77 pH	23.49 °C	11,475 µS/cm	0.11 mg/L	1.35 NTU	-43.7 mV	8.85 ft	400.00 ml/min
10/20/2021 3:03 PM	15:00	5.82 pH	23.31 °C	12,000 µS/cm	0.10 mg/L	1.74 NTU	-50.4 mV	8.91 ft	400.00 ml/min
10/20/2021 3:08 PM	20:00	5.89 pH	23.35 °C	12,170 µS/cm	0.09 mg/L	1.78 NTU	-55.6 mV	8.95 ft	400.00 ml/min
10/20/2021 3:13 PM	25:00	5.94 pH	23.22 °C	12,163 µS/cm	0.09 mg/L	1.75 NTU	-58.2 mV	8.98 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-6R	Sample time @ 1520. Cloudy 75. DUP-04 @ 1420.

Low-Flow Test Report:

Test Date / Time: 10/21/2021 10:04:34 AM

Project: Plant Watson

Operator Name: Rick Hagendorfer

Location Name: APMW-3 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 26.6 ft Total Depth: 36.6 ft Initial Depth to Water: 7.74 ft	Pump Type: BP Tubing Type: PE Pump Intake From TOC: 31.6 ft Estimated Total Volume Pumped: 12000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: -0.03 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Sample collected at 1038. Dup-05 fake time 1138.

Weather Conditions:

P/C 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	+/- 10	+/- 0.3	
10/21/2021 10:04 AM	00:00	6.32 pH	27.13 °C	28,247 µS/cm	3.97 mg/L	6.29 NTU	94.4 mV	7.74 ft	400.00 ml/min
10/21/2021 10:09 AM	05:00	6.44 pH	24.42 °C	29,126 µS/cm	0.24 mg/L	4.68 NTU	-40.3 mV	7.79 ft	400.00 ml/min
10/21/2021 10:14 AM	10:00	6.50 pH	24.33 °C	28,689 µS/cm	0.22 mg/L	3.31 NTU	-30.5 mV	7.77 ft	400.00 ml/min
10/21/2021 10:19 AM	15:00	6.51 pH	24.19 °C	28,502 µS/cm	0.21 mg/L	2.49 NTU	-38.9 mV	7.75 ft	400.00 ml/min
10/21/2021 10:24 AM	20:00	6.52 pH	24.24 °C	28,402 µS/cm	0.20 mg/L	2.71 NTU	-39.0 mV	7.73 ft	400.00 ml/min
10/21/2021 10:29 AM	25:00	6.53 pH	24.15 °C	28,300 µS/cm	0.21 mg/L	1.52 NTU	-35.3 mV	7.72 ft	400.00 ml/min
10/21/2021 10:34 AM	30:00	6.54 pH	24.10 °C	28,228 µS/cm	0.21 mg/L	1.64 NTU	-34.5 mV	7.71 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-3	Dup-05. Fake time 1138.

Low-Flow Test Report:

Test Date / Time: 10/21/2021 2:10:11 PM

Project: Plant Watson

Operator Name: Rick Hagendorfer

Location Name: APMW-8 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 32.8 ft Total Depth: 42.8 ft Initial Depth to Water: 19.87 ft	Pump Type: BP Tubing Type: PE Pump Intake From TOC: 37.3 ft Estimated Total Volume Pumped: 34000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: -0.02 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Sample time 1538.

Weather Conditions:

PC 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	+/- 10	+/- 0.3	
10/21/2021 2:10 PM	00:00	6.71 pH	23.47 °C	11,181 µS/cm	0.25 mg/L	183.00 NTU	-43.3 mV	19.87 ft	400.00 ml/min
10/21/2021 2:15 PM	05:00	6.74 pH	23.42 °C	11,293 µS/cm	0.23 mg/L	106.00 NTU	-49.2 mV	19.97 ft	400.00 ml/min
10/21/2021 2:20 PM	10:00	6.74 pH	23.40 °C	11,325 µS/cm	0.23 mg/L	70.50 NTU	-52.9 mV	19.97 ft	400.00 ml/min
10/21/2021 2:25 PM	15:00	6.74 pH	23.34 °C	11,350 µS/cm	0.23 mg/L	37.10 NTU	-55.5 mV	19.97 ft	400.00 ml/min
10/21/2021 2:30 PM	20:00	6.74 pH	23.30 °C	11,366 µS/cm	0.23 mg/L	21.10 NTU	-57.6 mV	19.96 ft	400.00 ml/min
10/21/2021 2:35 PM	25:00	6.74 pH	23.25 °C	11,363 µS/cm	0.22 mg/L	15.60 NTU	-58.5 mV	19.95 ft	400.00 ml/min
10/21/2021 2:40 PM	30:00	6.75 pH	23.25 °C	11,380 µS/cm	0.22 mg/L	12.10 NTU	-58.8 mV	19.95 ft	400.00 ml/min
10/21/2021 2:45 PM	35:00	6.75 pH	23.25 °C	11,383 µS/cm	0.22 mg/L	10.10 NTU	-59.5 mV	19.94 ft	400.00 ml/min
10/21/2021 2:50 PM	40:00	6.75 pH	23.22 °C	11,375 µS/cm	0.21 mg/L	8.77 NTU	-60.0 mV	19.95 ft	400.00 ml/min
10/21/2021 2:55 PM	45:00	6.75 pH	23.21 °C	11,388 µS/cm	0.21 mg/L	7.39 NTU	-60.3 mV	19.93 ft	400.00 ml/min
10/21/2021 3:00 PM	50:00	6.75 pH	23.25 °C	11,394 µS/cm	0.21 mg/L	6.79 NTU	-61.0 mV	19.92 ft	400.00 ml/min
10/21/2021 3:05 PM	55:00	6.75 pH	23.24 °C	11,387 µS/cm	0.21 mg/L	5.34 NTU	-61.4 mV	19.91 ft	400.00 ml/min
10/21/2021 3:10 PM	01:00:00	6.75 pH	23.13 °C	11,400 µS/cm	0.21 mg/L	4.77 NTU	-61.5 mV	19.89 ft	400.00 ml/min

10/21/2021 3:15 PM	01:05:00	6.74 pH	23.21 °C	11,403 µS/cm	0.20 mg/L	4.11 NTU	-61.2 mV	19.89 ft	400.00 ml/min
10/21/2021 3:20 PM	01:10:00	6.74 pH	23.25 °C	11,388 µS/cm	0.20 mg/L	3.30 NTU	-61.7 mV	19.88 ft	400.00 ml/min
10/21/2021 3:25 PM	01:15:00	6.74 pH	23.25 °C	11,397 µS/cm	0.20 mg/L	3.06 NTU	-61.6 mV	19.86 ft	400.00 ml/min
10/21/2021 3:30 PM	01:20:00	6.74 pH	23.28 °C	11,399 µS/cm	0.20 mg/L	2.47 NTU	-62.2 mV	19.85 ft	400.00 ml/min
10/21/2021 3:35 PM	01:25:00	6.74 pH	23.25 °C	11,406 µS/cm	0.20 mg/L	1.94 NTU	-61.9 mV	19.85 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-8	Sample time 1538

ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-128429-1

Client Project/Site: Plant Watson Ash Pond

For:

Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Robert Singleton



Authorized for release by:
10/29/2021 10:20:39 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128429-1

Job ID: 180-128429-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative
180-128429-1

Comments

No additional comments.

Receipt

The samples were received on 10/13/2021 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.9° C.

GC Semi VOA

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

Metals

Method 6020B: The following sample was diluted due to the nature of the sample matrix: APMW-2 (180-128429-6). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or 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 Watson Ash Pond

Job ID: 180-128429-1

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 Watson Ash Pond

Job ID: 180-128429-1

Laboratory: Eurofins TestAmerica, 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	06-27-21 *
California	State	2891	04-30-22
Connecticut	State	PH-0688	09-30-22
Florida	NELAP	E871008	06-30-22
Georgia	State	PA 02-00416	04-30-22
Illinois	NELAP	004375	06-30-22
Kansas	NELAP	E-10350	01-31-22
Kentucky (UST)	State	162013	04-30-22
Kentucky (WW)	State	KY98043	12-31-21
Louisiana	NELAP	04041	06-30-22
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-21
Nevada	State	PA00164	08-31-22
New Hampshire	NELAP	2030	04-05-22
New Jersey	NELAP	PA005	06-30-22
New York	NELAP	11182	04-01-22
North Carolina (WW/SW)	State	434	12-31-21
North Dakota	State	R-227	04-30-22
Oregon	NELAP	PA-2151	02-06-22
Pennsylvania	NELAP	02-00416	04-30-22
Rhode Island	State	LAO00362	12-31-21
South Carolina	State	89014	04-30-22
Texas	NELAP	T104704528	03-31-22
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-22
Virginia	NELAP	10043	09-15-22
West Virginia DEP	State	142	01-31-22
Wisconsin	State	998027800	08-31-22

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



Sample Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128429-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-128429-1	APMW-5D	Water	10/11/21 16:20	10/13/21 09:30
180-128429-2	APMW-5	Water	10/12/21 09:15	10/13/21 09:30
180-128429-3	APMW-7	Water	10/12/21 08:25	10/13/21 09:30
180-128429-4	APMW-1R	Water	10/12/21 10:50	10/13/21 09:30
180-128429-5	APMW-2D	Water	10/12/21 14:15	10/13/21 09:30
180-128429-6	APMW-2	Water	10/12/21 15:30	10/13/21 09:30

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Method Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128429-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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:

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

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128429-1

Client Sample ID: APMW-5D

Lab Sample ID: 180-128429-1

Date Collected: 10/11/21 16:20

Matrix: Water

Date Received: 10/13/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			375190	10/14/21 10:17	J1T	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	376409	10/26/21 09:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376787	10/27/21 12:07	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	375438	10/15/21 12:00	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			375800	10/19/21 10:11	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	375310	10/14/21 14:00	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-5

Lab Sample ID: 180-128429-2

Date Collected: 10/12/21 09:15

Matrix: Water

Date Received: 10/13/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		25			375190	10/14/21 10:35	J1T	TAL PIT
Instrument ID: CHICS2100B										
Total/NA	Analysis	300.0		250			375190	10/14/21 10:53	J1T	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	376409	10/26/21 09:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376787	10/27/21 12:10	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	375439	10/15/21 12:00	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			375826	10/19/21 10:57	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	5 mL	100 mL	375310	10/14/21 14:00	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-7

Lab Sample ID: 180-128429-3

Date Collected: 10/12/21 08:25

Matrix: Water

Date Received: 10/13/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			375190	10/14/21 12:16	J1T	TAL PIT
Instrument ID: CHICS2100B										
Total/NA	Analysis	300.0		100			375190	10/14/21 12:35	J1T	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	376409	10/26/21 09:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376787	10/27/21 12:13	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	375439	10/15/21 12:00	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			375826	10/19/21 10:58	RJR	TAL PIT
Instrument ID: HGZ										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128429-1

Client Sample ID: APMW-7

Lab Sample ID: 180-128429-3

Date Collected: 10/12/21 08:25

Matrix: Water

Date Received: 10/13/21 09:30

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	10 mL	100 mL	375310	10/14/21 14:00	KMM	TAL PIT

Client Sample ID: APMW-1R

Lab Sample ID: 180-128429-4

Date Collected: 10/12/21 10:50

Matrix: Water

Date Received: 10/13/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0 Instrument ID: CHICS2100B		5			375190	10/14/21 12:54	J1T	TAL PIT
Total/NA	Analysis	300.0 Instrument ID: CHICS2100B		50			375190	10/14/21 13:12	J1T	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	376409	10/26/21 09:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: DORY		1			376787	10/27/21 12:17	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	375439	10/15/21 12:00	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			375826	10/19/21 10:59	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	10 mL	100 mL	375310	10/14/21 14:00	KMM	TAL PIT

Client Sample ID: APMW-2D

Lab Sample ID: 180-128429-5

Date Collected: 10/12/21 14:15

Matrix: Water

Date Received: 10/13/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0 Instrument ID: CHICS2100B		1			375190	10/14/21 15:51	J1T	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	376409	10/26/21 09:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: DORY		1			376787	10/27/21 12:20	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	375439	10/15/21 12:00	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			375826	10/19/21 11:00	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	375308	10/14/21 13:45	KMM	TAL PIT

Client Sample ID: APMW-2

Lab Sample ID: 180-128429-6

Date Collected: 10/12/21 15:30

Matrix: Water

Date Received: 10/13/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0 Instrument ID: CHICS2100B		5			375190	10/14/21 13:31	J1T	TAL PIT
Total/NA	Analysis	300.0 Instrument ID: CHICS2100B		50			375190	10/14/21 13:50	J1T	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-128429-1

Client Sample ID: APMW-2

Lab Sample ID: 180-128429-6

Date Collected: 10/12/21 15:30

Matrix: Water

Date Received: 10/13/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	376409	10/26/21 09:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376787	10/27/21 12:43	RSK	TAL PIT
		Instrument ID: DORY								
Total Recoverable	Prep	3005A			50 mL	50 mL	376409	10/26/21 09:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		2			376823	10/28/21 07:37	RSK	TAL PIT
		Instrument ID: NEMO								
Total/NA	Prep	7470A			25 mL	25 mL	375439	10/15/21 12:00	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			375826	10/19/21 11:01	RJR	TAL PIT
		Instrument ID: HGZ								
Total/NA	Analysis	SM 2540C		1	25 mL	100 mL	375310	10/14/21 14:00	KMM	TAL PIT
		Instrument ID: NOEQUIP								

Laboratory References:

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

Analyst References:

Lab: TAL PIT

Batch Type: Prep

MM1 = Mary Beth Miller

Batch Type: Analysis

J1T = Jianwu Tang

KMM = Kendric Moore

RJR = Ron Rosenbaum

RSK = Robert Kurtz

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128429-1

Client Sample ID: APMW-5D

Lab Sample ID: 180-128429-1

Date Collected: 10/11/21 16:20

Matrix: Water

Date Received: 10/13/21 09:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.5		1.0	0.71	mg/L			10/14/21 10:17	1
Fluoride	0.18	J	0.20	0.026	mg/L			10/14/21 10:17	1
Sulfate	8.9		1.0	0.76	mg/L			10/14/21 10:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/26/21 09:00	10/27/21 12:07	1
Arsenic	0.013		0.0010	0.00031	mg/L		10/26/21 09:00	10/27/21 12:07	1
Barium	0.052		0.010	0.0016	mg/L		10/26/21 09:00	10/27/21 12:07	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/26/21 09:00	10/27/21 12:07	1
Boron	0.11		0.080	0.039	mg/L		10/26/21 09:00	10/27/21 12:07	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/26/21 09:00	10/27/21 12:07	1
Calcium	1.3		0.50	0.13	mg/L		10/26/21 09:00	10/27/21 12:07	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/26/21 09:00	10/27/21 12:07	1
Cobalt	0.00030	J	0.0025	0.00013	mg/L		10/26/21 09:00	10/27/21 12:07	1
Lead	0.00019	J	0.0010	0.00013	mg/L		10/26/21 09:00	10/27/21 12:07	1
Lithium	0.0075		0.0050	0.0034	mg/L		10/26/21 09:00	10/27/21 12:07	1
Molybdenum	0.00080	J	0.015	0.00061	mg/L		10/26/21 09:00	10/27/21 12:07	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/26/21 09:00	10/27/21 12:07	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/26/21 09:00	10/27/21 12:07	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/15/21 12:00	10/19/21 10:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	140		10	10	mg/L			10/14/21 14:00	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128429-1

Client Sample ID: APMW-5

Lab Sample ID: 180-128429-2

Date Collected: 10/12/21 09:15

Matrix: Water

Date Received: 10/13/21 09:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8300		250	180	mg/L			10/14/21 10:53	250
Fluoride	<0.65		5.0	0.65	mg/L			10/14/21 10:35	25
Sulfate	900		25	19	mg/L			10/14/21 10:35	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/26/21 09:00	10/27/21 12:10	1
Arsenic	0.21		0.0010	0.00031	mg/L		10/26/21 09:00	10/27/21 12:10	1
Barium	0.10		0.010	0.0016	mg/L		10/26/21 09:00	10/27/21 12:10	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/26/21 09:00	10/27/21 12:10	1
Boron	6.1		0.080	0.039	mg/L		10/26/21 09:00	10/27/21 12:10	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/26/21 09:00	10/27/21 12:10	1
Calcium	310		0.50	0.13	mg/L		10/26/21 09:00	10/27/21 12:10	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/26/21 09:00	10/27/21 12:10	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/26/21 09:00	10/27/21 12:10	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/26/21 09:00	10/27/21 12:10	1
Lithium	0.039		0.0050	0.0034	mg/L		10/26/21 09:00	10/27/21 12:10	1
Molybdenum	0.074		0.015	0.00061	mg/L		10/26/21 09:00	10/27/21 12:10	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/26/21 09:00	10/27/21 12:10	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/26/21 09:00	10/27/21 12:10	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/15/21 12:00	10/19/21 10:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	15000		200	200	mg/L			10/14/21 14:00	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-128429-1

Client Sample ID: APMW-7

Lab Sample ID: 180-128429-3

Date Collected: 10/12/21 08:25

Matrix: Water

Date Received: 10/13/21 09:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3800		100	71	mg/L			10/14/21 12:35	100
Fluoride	<0.26		2.0	0.26	mg/L			10/14/21 12:16	10
Sulfate	13		10	7.6	mg/L			10/14/21 12:16	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/26/21 09:00	10/27/21 12:13	1
Arsenic	0.00044	J	0.0010	0.00031	mg/L		10/26/21 09:00	10/27/21 12:13	1
Barium	0.97		0.010	0.0016	mg/L		10/26/21 09:00	10/27/21 12:13	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/26/21 09:00	10/27/21 12:13	1
Boron	1.2		0.080	0.039	mg/L		10/26/21 09:00	10/27/21 12:13	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/26/21 09:00	10/27/21 12:13	1
Calcium	84		0.50	0.13	mg/L		10/26/21 09:00	10/27/21 12:13	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/26/21 09:00	10/27/21 12:13	1
Cobalt	0.00028	J	0.0025	0.00013	mg/L		10/26/21 09:00	10/27/21 12:13	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/26/21 09:00	10/27/21 12:13	1
Lithium	0.0036	J	0.0050	0.0034	mg/L		10/26/21 09:00	10/27/21 12:13	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/26/21 09:00	10/27/21 12:13	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/26/21 09:00	10/27/21 12:13	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/26/21 09:00	10/27/21 12:13	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/15/21 12:00	10/19/21 10:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	6900		100	100	mg/L			10/14/21 14:00	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128429-1

Client Sample ID: APMW-1R

Lab Sample ID: 180-128429-4

Date Collected: 10/12/21 10:50

Matrix: Water

Date Received: 10/13/21 09:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2300		50	36	mg/L			10/14/21 13:12	50
Fluoride	0.27	J	1.0	0.13	mg/L			10/14/21 12:54	5
Sulfate	<3.8		5.0	3.8	mg/L			10/14/21 12:54	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/26/21 09:00	10/27/21 12:17	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		10/26/21 09:00	10/27/21 12:17	1
Barium	1.5		0.010	0.0016	mg/L		10/26/21 09:00	10/27/21 12:17	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/26/21 09:00	10/27/21 12:17	1
Boron	7.2		0.080	0.039	mg/L		10/26/21 09:00	10/27/21 12:17	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/26/21 09:00	10/27/21 12:17	1
Calcium	200		0.50	0.13	mg/L		10/26/21 09:00	10/27/21 12:17	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/26/21 09:00	10/27/21 12:17	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/26/21 09:00	10/27/21 12:17	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/26/21 09:00	10/27/21 12:17	1
Lithium	0.014		0.0050	0.0034	mg/L		10/26/21 09:00	10/27/21 12:17	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/26/21 09:00	10/27/21 12:17	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/26/21 09:00	10/27/21 12:17	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/26/21 09:00	10/27/21 12:17	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/15/21 12:00	10/19/21 10:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	4700		100	100	mg/L			10/14/21 14:00	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128429-1

Client Sample ID: APMW-2D

Lab Sample ID: 180-128429-5

Date Collected: 10/12/21 14:15

Matrix: Water

Date Received: 10/13/21 09:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.6		1.0	0.71	mg/L			10/14/21 15:51	1
Fluoride	0.18	J	0.20	0.026	mg/L			10/14/21 15:51	1
Sulfate	3.1		1.0	0.76	mg/L			10/14/21 15:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/26/21 09:00	10/27/21 12:20	1
Arsenic	0.0027		0.0010	0.00031	mg/L		10/26/21 09:00	10/27/21 12:20	1
Barium	0.040		0.010	0.0016	mg/L		10/26/21 09:00	10/27/21 12:20	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/26/21 09:00	10/27/21 12:20	1
Boron	0.37		0.080	0.039	mg/L		10/26/21 09:00	10/27/21 12:20	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/26/21 09:00	10/27/21 12:20	1
Calcium	4.1		0.50	0.13	mg/L		10/26/21 09:00	10/27/21 12:20	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/26/21 09:00	10/27/21 12:20	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/26/21 09:00	10/27/21 12:20	1
Lead	0.00020	J	0.0010	0.00013	mg/L		10/26/21 09:00	10/27/21 12:20	1
Lithium	0.0079		0.0050	0.0034	mg/L		10/26/21 09:00	10/27/21 12:20	1
Molybdenum	0.0011	J	0.015	0.00061	mg/L		10/26/21 09:00	10/27/21 12:20	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/26/21 09:00	10/27/21 12:20	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/26/21 09:00	10/27/21 12:20	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/15/21 12:00	10/19/21 11:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	160		10	10	mg/L			10/14/21 13:45	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128429-1

Client Sample ID: APMW-2

Lab Sample ID: 180-128429-6

Date Collected: 10/12/21 15:30

Matrix: Water

Date Received: 10/13/21 09:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2400		50	36	mg/L			10/14/21 13:50	50
Fluoride	0.22	J	1.0	0.13	mg/L			10/14/21 13:31	5
Sulfate	<3.8		5.0	3.8	mg/L			10/14/21 13:31	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/26/21 09:00	10/27/21 12:43	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		10/26/21 09:00	10/27/21 12:43	1
Barium	3.3		0.010	0.0016	mg/L		10/26/21 09:00	10/27/21 12:43	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/26/21 09:00	10/27/21 12:43	1
Boron	3.8		0.16	0.077	mg/L		10/26/21 09:00	10/28/21 07:37	2
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/26/21 09:00	10/27/21 12:43	1
Calcium	360		0.50	0.13	mg/L		10/26/21 09:00	10/27/21 12:43	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/26/21 09:00	10/27/21 12:43	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/26/21 09:00	10/27/21 12:43	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/26/21 09:00	10/27/21 12:43	1
Lithium	0.028		0.0050	0.0034	mg/L		10/26/21 09:00	10/27/21 12:43	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/26/21 09:00	10/27/21 12:43	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/26/21 09:00	10/27/21 12:43	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/26/21 09:00	10/27/21 12:43	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/15/21 12:00	10/19/21 11:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	4400		40	40	mg/L			10/14/21 14:00	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128429-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 180-375190/6
Matrix: Water
Analysis Batch: 375190

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			10/14/21 08:26	1
Fluoride	<0.026		0.20	0.026	mg/L			10/14/21 08:26	1
Sulfate	<0.76		1.0	0.76	mg/L			10/14/21 08:26	1

Lab Sample ID: LCS 180-375190/5
Matrix: Water
Analysis Batch: 375190

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	50.2		mg/L		100	90 - 110
Fluoride	2.50	2.55		mg/L		102	90 - 110
Sulfate	50.0	49.9		mg/L		100	90 - 110

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

Lab Sample ID: MB 180-376409/1-A
Matrix: Water
Analysis Batch: 376787

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 376409

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/26/21 09:00	10/27/21 12:00	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		10/26/21 09:00	10/27/21 12:00	1
Barium	<0.0016		0.010	0.0016	mg/L		10/26/21 09:00	10/27/21 12:00	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/26/21 09:00	10/27/21 12:00	1
Boron	<0.039		0.080	0.039	mg/L		10/26/21 09:00	10/27/21 12:00	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/26/21 09:00	10/27/21 12:00	1
Calcium	<0.13		0.50	0.13	mg/L		10/26/21 09:00	10/27/21 12:00	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/26/21 09:00	10/27/21 12:00	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/26/21 09:00	10/27/21 12:00	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/26/21 09:00	10/27/21 12:00	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/26/21 09:00	10/27/21 12:00	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/26/21 09:00	10/27/21 12:00	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/26/21 09:00	10/27/21 12:00	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/26/21 09:00	10/27/21 12:00	1

Lab Sample ID: LCS 180-376409/2-A
Matrix: Water
Analysis Batch: 376787

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 376409

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.250	0.235		mg/L		94	80 - 120
Arsenic	1.00	0.984		mg/L		98	80 - 120
Barium	1.00	1.00		mg/L		100	80 - 120
Beryllium	0.500	0.506		mg/L		101	80 - 120
Boron	1.25	1.23		mg/L		98	80 - 120
Cadmium	0.500	0.499		mg/L		100	80 - 120
Calcium	25.0	27.5		mg/L		110	80 - 120
Chromium	0.500	0.500		mg/L		100	80 - 120
Cobalt	0.500	0.489		mg/L		98	80 - 120

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128429-1

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

Lab Sample ID: LCS 180-376409/2-A
Matrix: Water
Analysis Batch: 376787

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 376409

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.500	0.507		mg/L		101	80 - 120
Lithium	0.500	0.532		mg/L		106	80 - 120
Molybdenum	0.500	0.508		mg/L		102	80 - 120
Selenium	1.00	1.06		mg/L		106	80 - 120
Thallium	1.00	1.12		mg/L		112	80 - 120

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-375438/1-A
Matrix: Water
Analysis Batch: 375800

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 375438

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/15/21 12:00	10/19/21 09:57	1

Lab Sample ID: LCS 180-375438/2-A
Matrix: Water
Analysis Batch: 375800

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375438

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00246		mg/L		98	80 - 120

Lab Sample ID: MB 180-375439/1-A
Matrix: Water
Analysis Batch: 375826

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 375439

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/15/21 12:00	10/19/21 10:48	1

Lab Sample ID: LCS 180-375439/2-A
Matrix: Water
Analysis Batch: 375826

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375439

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00236		mg/L		94	80 - 120

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

Lab Sample ID: MB 180-375308/2
Matrix: Water
Analysis Batch: 375308

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		10	10	mg/L			10/14/21 13:45	1

Lab Sample ID: LCS 180-375308/1
Matrix: Water
Analysis Batch: 375308

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	422	420		mg/L		100	80 - 120

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-128429-1

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

Lab Sample ID: MB 180-375310/2
Matrix: Water
Analysis Batch: 375310

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		10	10	mg/L			10/14/21 14:00	1

Lab Sample ID: LCS 180-375310/1
Matrix: Water
Analysis Batch: 375310

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	422	406		mg/L		96	80 - 120



QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128429-1

HPLC/IC

Analysis Batch: 375190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128429-1	APMW-5D	Total/NA	Water	300.0	
180-128429-2	APMW-5	Total/NA	Water	300.0	
180-128429-2	APMW-5	Total/NA	Water	300.0	
180-128429-3	APMW-7	Total/NA	Water	300.0	
180-128429-3	APMW-7	Total/NA	Water	300.0	
180-128429-4	APMW-1R	Total/NA	Water	300.0	
180-128429-4	APMW-1R	Total/NA	Water	300.0	
180-128429-5	APMW-2D	Total/NA	Water	300.0	
180-128429-6	APMW-2	Total/NA	Water	300.0	
180-128429-6	APMW-2	Total/NA	Water	300.0	
MB 180-375190/6	Method Blank	Total/NA	Water	300.0	
LCS 180-375190/5	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 375438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128429-1	APMW-5D	Total/NA	Water	7470A	
MB 180-375438/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-375438/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 375439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128429-2	APMW-5	Total/NA	Water	7470A	
180-128429-3	APMW-7	Total/NA	Water	7470A	
180-128429-4	APMW-1R	Total/NA	Water	7470A	
180-128429-5	APMW-2D	Total/NA	Water	7470A	
180-128429-6	APMW-2	Total/NA	Water	7470A	
MB 180-375439/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-375439/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 375800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128429-1	APMW-5D	Total/NA	Water	EPA 7470A	375438
MB 180-375438/1-A	Method Blank	Total/NA	Water	EPA 7470A	375438
LCS 180-375438/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	375438

Analysis Batch: 375826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128429-2	APMW-5	Total/NA	Water	EPA 7470A	375439
180-128429-3	APMW-7	Total/NA	Water	EPA 7470A	375439
180-128429-4	APMW-1R	Total/NA	Water	EPA 7470A	375439
180-128429-5	APMW-2D	Total/NA	Water	EPA 7470A	375439
180-128429-6	APMW-2	Total/NA	Water	EPA 7470A	375439
MB 180-375439/1-A	Method Blank	Total/NA	Water	EPA 7470A	375439
LCS 180-375439/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	375439

Prep Batch: 376409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128429-1	APMW-5D	Total Recoverable	Water	3005A	
180-128429-2	APMW-5	Total Recoverable	Water	3005A	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128429-1

Metals (Continued)

Prep Batch: 376409 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128429-3	APMW-7	Total Recoverable	Water	3005A	
180-128429-4	APMW-1R	Total Recoverable	Water	3005A	
180-128429-5	APMW-2D	Total Recoverable	Water	3005A	
180-128429-6	APMW-2	Total Recoverable	Water	3005A	
MB 180-376409/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-376409/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 376787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128429-1	APMW-5D	Total Recoverable	Water	EPA 6020B	376409
180-128429-2	APMW-5	Total Recoverable	Water	EPA 6020B	376409
180-128429-3	APMW-7	Total Recoverable	Water	EPA 6020B	376409
180-128429-4	APMW-1R	Total Recoverable	Water	EPA 6020B	376409
180-128429-5	APMW-2D	Total Recoverable	Water	EPA 6020B	376409
180-128429-6	APMW-2	Total Recoverable	Water	EPA 6020B	376409
MB 180-376409/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	376409
LCS 180-376409/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	376409

Analysis Batch: 376823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128429-6	APMW-2	Total Recoverable	Water	EPA 6020B	376409

General Chemistry

Analysis Batch: 375308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128429-5	APMW-2D	Total/NA	Water	SM 2540C	
MB 180-375308/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-375308/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 375310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128429-1	APMW-5D	Total/NA	Water	SM 2540C	
180-128429-2	APMW-5	Total/NA	Water	SM 2540C	
180-128429-3	APMW-7	Total/NA	Water	SM 2540C	
180-128429-4	APMW-1R	Total/NA	Water	SM 2540C	
180-128429-6	APMW-2	Total/NA	Water	SM 2540C	
MB 180-375310/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-375310/1	Lab Control Sample	Total/NA	Water	SM 2540C	

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ORIGIN ID: B1XA (850) 396-0192
RDH ENVIRONMENTAL
5720 DOVE DR
PACF, FL 32921
UNITED STATES US

RT 98
121
LB 55F2220
3 IN
BILL TO: PARTY

TO TEST AMERICA
TEST AMERICA
301 ALPHA DR

Part # 156297-435 RHOB EXP 08/22

PITTSBURGH PA 15238
REF: (412) 988-0222
DEPT: 801

Uncorrected temp
Thermometer ID
PT-WI-SR-001 effective 11/8/18
Initials Mb
39
8



TRK# 2848 1065 3402
0201

WED - OCT 10:30A
PRIORITY OVERNIGHT

XH AGCA

15238
PA-US PIT



180-128429 Waybill

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-128429-1

Login Number: 128429

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

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	



ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-128429-2

Client Project/Site: Plant Watson Ash Pond

For:

Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Robert Singleton



Authorized for release by:
11/18/2021 6:51:46 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.com

LINKS

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results through
TotalAccess

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128429-2

Job ID: 180-128429-2

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-128429-2

Comments

No additional comments.

Receipt

The samples were received on 10/13/2021 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.9° C.

RAD

Methods 903.0, 9315: Radium 226 batch 533194

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. APMW-5D (180-128429-1), APMW-5 (180-128429-2), APMW-7 (180-128429-3), APMW-1R (180-128429-4), APMW-2D (180-128429-5), APMW-2 (180-128429-6), (LCS 160-533194/1-A), (LCSD 160-533194/2-A) and (MB 160-533194/23-A)

Methods 904.0, 9320: Radium 228 batch 533197

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. APMW-5D (180-128429-1), APMW-5 (180-128429-2), APMW-7 (180-128429-3), APMW-1R (180-128429-4), APMW-2D (180-128429-5), APMW-2 (180-128429-6), (LCS 160-533197/1-A), (LCSD 160-533197/2-A) and (MB 160-533197/23-A)

Method PrecSep_0: Radium-228 Prep Batch 160-533197

The following samples were prepared at a reduced aliquot due to Matrix: APMW-5 (180-128429-2), APMW-7 (180-128429-3), APMW-1R (180-128429-4), APMW-2D (180-128429-5) and APMW-2 (180-128429-6). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep_0: Radium-228 Prep Batch 160-533197

Insufficient sample volume was available to perform a sample duplicate for the following samples: APMW-5D (180-128429-1). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium-226 Prep Batch 160-533194

The following samples were prepared at a reduced aliquot due to Matrix: APMW-5 (180-128429-2), APMW-7 (180-128429-3), APMW-1R (180-128429-4), APMW-2D (180-128429-5) and APMW-2 (180-128429-6). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep-21: Radium-226 Prep Batch 160-533194

Insufficient sample volume was available to perform a sample duplicate for the following samples: APMW-5D (180-128429-1). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

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 Watson Ash Pond

Job ID: 180-128429-2

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 Watson Ash Pond

Job ID: 180-128429-2

Laboratory: Eurofins TestAmerica, 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	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-21
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	06-30-21 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	01-01-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-21
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-21
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	03-01-22
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

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

Sample Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128429-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-128429-1	APMW-5D	Water	10/11/21 16:20	10/13/21 09:30
180-128429-2	APMW-5	Water	10/12/21 09:15	10/13/21 09:30
180-128429-3	APMW-7	Water	10/12/21 08:25	10/13/21 09:30
180-128429-4	APMW-1R	Water	10/12/21 10:50	10/13/21 09:30
180-128429-5	APMW-2D	Water	10/12/21 14:15	10/13/21 09:30
180-128429-6	APMW-2	Water	10/12/21 15:30	10/13/21 09:30

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

Method Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128429-2

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

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

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128429-2

Client Sample ID: APMW-5D

Lab Sample ID: 180-128429-1

Date Collected: 10/11/21 16:20

Matrix: Water

Date Received: 10/13/21 09:30

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			1000.93 mL	1.0 g	533194	10/22/21 13:35	BMP	TAL SL
Total/NA	Analysis	9315		1			536661	11/15/21 09:33	MLK	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.93 mL	1.0 g	533197	10/22/21 14:07	BMP	TAL SL
Total/NA	Analysis	9320		1			536060	11/11/21 13:08	MLK	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			537263	11/17/21 23:45	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-5

Lab Sample ID: 180-128429-2

Date Collected: 10/12/21 09:15

Matrix: Water

Date Received: 10/13/21 09:30

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			750.48 mL	1.0 g	533194	10/22/21 13:35	BMP	TAL SL
Total/NA	Analysis	9315		1			536661	11/15/21 09:33	MLK	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.48 mL	1.0 g	533197	10/22/21 14:07	BMP	TAL SL
Total/NA	Analysis	9320		1			536054	11/11/21 13:12	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			537263	11/17/21 23:45	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-7

Lab Sample ID: 180-128429-3

Date Collected: 10/12/21 08:25

Matrix: Water

Date Received: 10/13/21 09:30

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			750.29 mL	1.0 g	533194	10/22/21 13:35	BMP	TAL SL
Total/NA	Analysis	9315		1			536661	11/15/21 09:34	MLK	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.29 mL	1.0 g	533197	10/22/21 14:07	BMP	TAL SL
Total/NA	Analysis	9320		1			536054	11/11/21 13:12	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			537263	11/17/21 23:45	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-1R

Lab Sample ID: 180-128429-4

Date Collected: 10/12/21 10:50

Matrix: Water

Date Received: 10/13/21 09:30

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			750.70 mL	1.0 g	533194	10/22/21 13:35	BMP	TAL SL
Total/NA	Analysis	9315		1			536661	11/15/21 09:34	MLK	TAL SL
Instrument ID: GFPCBLUE										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128429-2

Client Sample ID: APMW-1R

Lab Sample ID: 180-128429-4

Date Collected: 10/12/21 10:50

Matrix: Water

Date Received: 10/13/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			750.70 mL	1.0 g	533197	10/22/21 14:07	BMP	TAL SL
Total/NA	Analysis	9320		1			536054	11/11/21 13:13	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			537263	11/17/21 23:45	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-2D

Lab Sample ID: 180-128429-5

Date Collected: 10/12/21 14:15

Matrix: Water

Date Received: 10/13/21 09:30

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			749.04 mL	1.0 g	533194	10/22/21 13:35	BMP	TAL SL
Total/NA	Analysis	9315		1			536662	11/15/21 09:38	MLK	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			749.04 mL	1.0 g	533197	10/22/21 14:07	BMP	TAL SL
Total/NA	Analysis	9320		1			536054	11/11/21 13:13	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			537263	11/17/21 23:45	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-2

Lab Sample ID: 180-128429-6

Date Collected: 10/12/21 15:30

Matrix: Water

Date Received: 10/13/21 09:30

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			750.94 mL	1.0 g	533194	10/22/21 13:35	BMP	TAL SL
Total/NA	Analysis	9315		1			536662	11/15/21 09:38	MLK	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			750.94 mL	1.0 g	533197	10/22/21 14:07	BMP	TAL SL
Total/NA	Analysis	9320		1			536054	11/11/21 13:13	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			537263	11/17/21 23:45	EMH	TAL SL
Instrument ID: NOEQUIP										

Laboratory References:

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

Analyst References:

Lab: TAL SL

Batch Type: Prep

BMP = Bailey Pinette

Batch Type: Analysis

EMH = Elizabeth Hoerchler

FLC = Fernando Cruz

MLK = Micha Korrinhizer

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-128429-2

Client Sample ID: APMW-5D

Lab Sample ID: 180-128429-1

Date Collected: 10/11/21 16:20

Matrix: Water

Date Received: 10/13/21 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0910	U	0.107	0.107	1.00	0.175	pCi/L	10/22/21 13:35	11/15/21 09:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.3		40 - 110					10/22/21 13:35	11/15/21 09:33	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.103	U	0.243	0.244	1.00	0.420	pCi/L	10/22/21 14:07	11/11/21 13:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.3		40 - 110					10/22/21 14:07	11/11/21 13:08	1
Y Carrier	84.1		40 - 110					10/22/21 14:07	11/11/21 13:08	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.194	U	0.266	0.266	5.00	0.420	pCi/L		11/17/21 23:45	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128429-2

Client Sample ID: APMW-5

Lab Sample ID: 180-128429-2

Date Collected: 10/12/21 09:15

Matrix: Water

Date Received: 10/13/21 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.536		0.229	0.234	1.00	0.283	pCi/L	10/22/21 13:35	11/15/21 09:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		40 - 110					10/22/21 13:35	11/15/21 09:33	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.20		0.575	0.646	1.00	0.644	pCi/L	10/22/21 14:07	11/11/21 13:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		40 - 110					10/22/21 14:07	11/11/21 13:12	1
Y Carrier	85.2		40 - 110					10/22/21 14:07	11/11/21 13:12	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	3.74		0.619	0.687	5.00	0.644	pCi/L		11/17/21 23:45	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128429-2

Client Sample ID: APMW-7

Lab Sample ID: 180-128429-3

Date Collected: 10/12/21 08:25

Matrix: Water

Date Received: 10/13/21 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	3.10		0.425	0.509	1.00	0.242	pCi/L	10/22/21 13:35	11/15/21 09:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					10/22/21 13:35	11/15/21 09:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	4.66		0.599	0.736	1.00	0.551	pCi/L	10/22/21 14:07	11/11/21 13:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					10/22/21 14:07	11/11/21 13:12	1
Y Carrier	86.4		40 - 110					10/22/21 14:07	11/11/21 13:12	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	7.77		0.734	0.895	5.00	0.551	pCi/L		11/17/21 23:45	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-128429-2

Client Sample ID: APMW-1R

Lab Sample ID: 180-128429-4

Date Collected: 10/12/21 10:50

Matrix: Water

Date Received: 10/13/21 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	7.08		0.640	0.903	1.00	0.273	pCi/L	10/22/21 13:35	11/15/21 09:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		40 - 110					10/22/21 13:35	11/15/21 09:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	4.90		0.600	0.750	1.00	0.505	pCi/L	10/22/21 14:07	11/11/21 13:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		40 - 110					10/22/21 14:07	11/11/21 13:13	1
Y Carrier	87.5		40 - 110					10/22/21 14:07	11/11/21 13:13	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	12.0		0.877	1.17	5.00	0.505	pCi/L		11/17/21 23:45	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128429-2

Client Sample ID: APMW-2D

Lab Sample ID: 180-128429-5

Date Collected: 10/12/21 14:15

Matrix: Water

Date Received: 10/13/21 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.000	U	0.173	0.173	1.00	0.336	pCi/L	10/22/21 13:35	11/15/21 09:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	65.0		40 - 110					10/22/21 13:35	11/15/21 09:38	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0129	U	0.420	0.420	1.00	0.758	pCi/L	10/22/21 14:07	11/11/21 13:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	65.0		40 - 110					10/22/21 14:07	11/11/21 13:13	1
Y Carrier	88.2		40 - 110					10/22/21 14:07	11/11/21 13:13	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0129	U	0.454	0.454	5.00	0.758	pCi/L		11/17/21 23:45	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-128429-2

Client Sample ID: APMW-2

Lab Sample ID: 180-128429-6

Date Collected: 10/12/21 15:30

Matrix: Water

Date Received: 10/13/21 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	13.9		0.827	1.50	1.00	0.221	pCi/L	10/22/21 13:35	11/15/21 09:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					10/22/21 13:35	11/15/21 09:38	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	6.68		0.674	0.912	1.00	0.513	pCi/L	10/22/21 14:07	11/11/21 13:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					10/22/21 14:07	11/11/21 13:13	1
Y Carrier	87.9		40 - 110					10/22/21 14:07	11/11/21 13:13	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	20.6		1.07	1.76	5.00	0.513	pCi/L		11/17/21 23:45	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128429-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-533194/23-A
Matrix: Water
Analysis Batch: 536662

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 533194

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.6844		0.263	0.270	1.00	0.306	pCi/L	10/22/21 13:35	11/15/21 09:40	1
Carrier	MB	MB	Limits				Prepared		Analyzed	
Ba Carrier	%Yield	Qualifier	40 - 110				10/22/21 13:35		11/15/21 09:40	
	70.5									

Lab Sample ID: LCS 160-533194/1-A
Matrix: Water
Analysis Batch: 536661

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 533194

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	
				Uncert. (2σ+/-)						
Radium-226	15.1	14.39		1.57	1.00	0.240	pCi/L	95	75 - 125	
Carrier	LCS	LCS	Limits							
Ba Carrier	%Yield	Qualifier	40 - 110							
	91.0									

Lab Sample ID: LCSD 160-533194/2-A
Matrix: Water
Analysis Batch: 536661

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 533194

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit	
				Uncert. (2σ+/-)								
Radium-226	15.1	13.84		1.52	1.00	0.250	pCi/L	92	75 - 125	0.18	1	
Carrier	LCSD	LCSD	Limits									
Ba Carrier	%Yield	Qualifier	40 - 110									
	94.0											

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-533197/23-A
Matrix: Water
Analysis Batch: 536054

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 533197

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	-0.05940	U	0.374	0.374	1.00	0.686	pCi/L	10/22/21 14:07	11/11/21 13:13	1
Carrier	MB	MB	Limits				Prepared		Analyzed	
Ba Carrier	%Yield	Qualifier	40 - 110				10/22/21 14:07		11/11/21 13:13	
	70.5									
Y Carrier	87.9		40 - 110				10/22/21 14:07		11/11/21 13:13	

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128429-2

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

Lab Sample ID: LCS 160-533197/1-A
Matrix: Water
Analysis Batch: 536060

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 533197

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
									75	125
Radium-228	12.2	11.21		1.36	1.00	0.528	pCi/L	92	75	125
LCS LCS										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	91.0		40 - 110							
Y Carrier	84.1		40 - 110							

Lab Sample ID: LCSD 160-533197/2-A
Matrix: Water
Analysis Batch: 536060

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 533197

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		RER	Limit
									75	125	0.22	1
Radium-228	12.2	11.81		1.41	1.00	0.467	pCi/L	97	75	125	0.22	1
LCSD LCSD												
Carrier	%Yield	Qualifier	Limits									
Ba Carrier	94.0		40 - 110									
Y Carrier	83.4		40 - 110									

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128429-2

Rad

Prep Batch: 533194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128429-1	APMW-5D	Total/NA	Water	PrecSep-21	
180-128429-2	APMW-5	Total/NA	Water	PrecSep-21	
180-128429-3	APMW-7	Total/NA	Water	PrecSep-21	
180-128429-4	APMW-1R	Total/NA	Water	PrecSep-21	
180-128429-5	APMW-2D	Total/NA	Water	PrecSep-21	
180-128429-6	APMW-2	Total/NA	Water	PrecSep-21	
MB 160-533194/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-533194/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-533194/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 533197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128429-1	APMW-5D	Total/NA	Water	PrecSep_0	
180-128429-2	APMW-5	Total/NA	Water	PrecSep_0	
180-128429-3	APMW-7	Total/NA	Water	PrecSep_0	
180-128429-4	APMW-1R	Total/NA	Water	PrecSep_0	
180-128429-5	APMW-2D	Total/NA	Water	PrecSep_0	
180-128429-6	APMW-2	Total/NA	Water	PrecSep_0	
MB 160-533197/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-533197/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-533197/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

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ORIGIN ID: B1XA (850) 396-0192
RDH ENVIRONMENTAL
5720 DOVE DR
PACF, FL 32921
UNITED STATES US

RT 98
121
LB 55F2220
3 IN
BILL TO: PARTY

TO TEST AMERICA
TEST AMERICA
301 ALPHA DR

Part # 156297-435 RHOB EXP 08/22

PITTSBURGH PA 15238
REF: (412) 988-0222
DEPT: 0201

Uncorrected temp
Thermometer ID
39
8
C
Initials Mb
PT-WI-SR-001 effective 11/8/18



TRK# 2848 1065 3402
0201

WED - OCT 10:30A
PRIORITY OVERNIGHT

XH AGCA

15238
PA-US PIT



180-128429 Waybill

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

Chain of Custody Record



Environment Testing
 America



Client Information (Sub Contract Lab)		Lab PM: Brown, Shali	Carrier Tracking No(s):	COC No: 180-446996-1						
Shipping/Receiving Company: TestAmerica Laboratories, Inc.		E-Mail: Shali.Brown@Eurofins.com	State of Origin: (Georgia)	Page: Page 1 of 1						
Address: 13715 Rider Trail North, City: Earth City State, Zip: MO, 63045 Phone: 314-298-8566(Tel) 314-298-8757(Fax) Email:		Accreditations Required (See note):	Job #: 180-128429-1							
Project Name: Plant Watson Ash Pond Site:		Analysis Requested								
Due Date Requested: 10/26/2021 TAT Requested (days):		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)								
PO #: WO #: Project #: 18020186 SSOW#:		Other:								
Sample Identification - Client ID (Lab ID)		Total Number of containers								
Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, W=water, A=air)	Field Filtered Sample (Yes or No)	Form MS/MSD (Yes or No)	930_Ra228/PreSep_0 Radium 228	9315_Ra228/PreSep_21 Radium 226	Ra226Ra228 GFC/ Combined Radium-226 and Radium-228	Special Instructions/Note:
APMW-5D (180-128429-1)	10/11/21	16:20 Eastern		Water	X	X	X	X	X	2
APMW-5 (180-128429-2)	10/12/21	09:15 Eastern		Water	X	X	X	X	X	2
APMW-7 (180-128429-3)	10/12/21	08:25 Eastern		Water	X	X	X	X	X	2
APMW-1R (180-128429-4)	10/12/21	10:50 Eastern		Water	X	X	X	X	X	2
APMW-2D (180-128429-5)	10/12/21	14:15 Eastern		Water	X	X	X	X	X	2
APMW-2 (180-128429-6)	10/12/21	15:30 Eastern		Water	X	X	X	X	X	2

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out 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/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: *No* Date: 10-18-21 17:00
 Relinquished by: **FED EX** Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Custody Seals Intact: _____
 Δ Yes Δ No
 Custody Seal No.: _____
 Received by: *[Signature]* Date/Time: 10/19/2021 09:15
 Received by: *[Signature]* Date/Time: _____
 Received by: _____ Date/Time: _____
 Cooler Temperature(s) °C and Other Remarks: _____

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:

Method of Shipment: _____
 Date/Time: _____
 Date/Time: _____
 Date/Time: _____
 Company: _____
 Company: _____
 Company: _____
 Company: *ETA STL*



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-128429-2

Login Number: 128429

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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 <math><6\text{mm}</math> (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: 180-128429-2

Login Number: 128429

List Number: 2

Creator: Johnson, Autumn R

List Source: Eurofins TestAmerica, St. Louis

List Creation: 10/19/21 12:21 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	

ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-128480-1

Laboratory Sample Delivery Group: Ash Pond
Client Project/Site: Plant Watson Ash Pond

For:

Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Robert Singleton



Authorized for release by:
10/29/2021 10:24:06 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-1
SDG: Ash Pond

Job ID: 180-128480-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative
180-128480-1

Comments

No additional comments.

Receipt

The samples were received on 10/13/2021 3:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.3° C and 3.5° C.

GC Semi VOA

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

Metals

Method 6020B: The following sample was diluted due to the nature of the sample matrix: APMW-9 (180-128480-7). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or 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 Watson Ash Pond

Job ID: 180-128480-1
SDG: Ash Pond

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 Watson Ash Pond

Job ID: 180-128480-1
 SDG: Ash Pond

Laboratory: Eurofins TestAmerica, 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	06-27-21 *
California	State	2891	04-30-22
Connecticut	State	PH-0688	09-30-22
Florida	NELAP	E871008	06-30-22
Georgia	State	PA 02-00416	04-30-22
Illinois	NELAP	004375	06-30-22
Kansas	NELAP	E-10350	01-31-22
Kentucky (UST)	State	162013	04-30-22
Kentucky (WW)	State	KY98043	12-31-21
Louisiana	NELAP	04041	06-30-22
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-21
Nevada	State	PA00164	08-31-22
New Hampshire	NELAP	2030	04-05-22
New Jersey	NELAP	PA005	06-30-22
New York	NELAP	11182	04-01-22
North Carolina (WW/SW)	State	434	12-31-21
North Dakota	State	R-227	04-30-22
Oregon	NELAP	PA-2151	02-06-22
Pennsylvania	NELAP	02-00416	04-30-22
Rhode Island	State	LAO00362	12-31-21
South Carolina	State	89014	04-30-22
Texas	NELAP	T104704528	03-31-22
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-22
Virginia	NELAP	10043	09-15-22
West Virginia DEP	State	142	01-31-22
Wisconsin	State	998027800	08-31-22

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



Sample Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-1
SDG: Ash Pond

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-128480-1	APMW-11	Water	10/11/21 09:58	10/13/21 15:30
180-128480-2	DUP-01	Water	10/11/21 09:58	10/13/21 15:30
180-128480-3	APMW-12	Water	10/11/21 10:52	10/13/21 15:30
180-128480-4	EB-01	Water	10/11/21 11:06	10/13/21 15:30
180-128480-5	FB-01	Water	10/11/21 11:10	10/13/21 15:30
180-128480-6	APMW-3D	Water	10/11/21 12:20	10/13/21 15:30
180-128480-7	APMW-9	Water	10/12/21 07:54	10/13/21 15:30
180-128480-8	APMW-8D	Water	10/12/21 08:47	10/13/21 15:30
180-128480-9	APMW-10D	Water	10/12/21 11:09	10/13/21 15:30
180-128480-10	APMW-10	Water	10/12/21 12:57	10/13/21 15:30
180-128480-11	DUP-02	Water	10/12/21 13:05	10/13/21 15:30

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Method Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-1
SDG: Ash Pond

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
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:

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

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-1
SDG: Ash Pond

Client Sample ID: APMW-11

Lab Sample ID: 180-128480-1

Date Collected: 10/11/21 09:58

Matrix: Water

Date Received: 10/13/21 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			375369	10/15/21 09:46	J1T	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	376409	10/26/21 09:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376787	10/27/21 12:49	RSK	TAL PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			50 mL	50 mL	376409	10/26/21 09:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376823	10/28/21 07:40	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	375438	10/15/21 12:00	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			375800	10/19/21 10:03	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	375445	10/15/21 12:49	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: DUP-01

Lab Sample ID: 180-128480-2

Date Collected: 10/11/21 09:58

Matrix: Water

Date Received: 10/13/21 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			375369	10/15/21 10:40	J1T	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	376409	10/26/21 09:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376787	10/27/21 12:53	RSK	TAL PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			50 mL	50 mL	376409	10/26/21 09:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376823	10/28/21 07:43	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	375438	10/15/21 12:00	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			375800	10/19/21 10:04	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	375445	10/15/21 12:49	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-12

Lab Sample ID: 180-128480-3

Date Collected: 10/11/21 10:52

Matrix: Water

Date Received: 10/13/21 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			375369	10/15/21 10:57	J1T	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	376409	10/26/21 09:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376787	10/27/21 12:56	RSK	TAL PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			50 mL	50 mL	376409	10/26/21 09:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376823	10/28/21 07:46	RSK	TAL PIT
Instrument ID: NEMO										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-1
SDG: Ash Pond

Client Sample ID: APMW-12

Lab Sample ID: 180-128480-3

Date Collected: 10/11/21 10:52

Matrix: Water

Date Received: 10/13/21 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			25 mL	25 mL	375438	10/15/21 12:00	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			375800	10/19/21 10:05	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	375445	10/15/21 12:49	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: EB-01

Lab Sample ID: 180-128480-4

Date Collected: 10/11/21 11:06

Matrix: Water

Date Received: 10/13/21 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			375369	10/15/21 12:45	J1T	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	376409	10/26/21 09:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376787	10/27/21 12:59	RSK	TAL PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			50 mL	50 mL	376409	10/26/21 09:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376823	10/28/21 07:48	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	375438	10/15/21 12:00	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			375800	10/19/21 10:06	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	375445	10/15/21 12:49	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: FB-01

Lab Sample ID: 180-128480-5

Date Collected: 10/11/21 11:10

Matrix: Water

Date Received: 10/13/21 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			375369	10/15/21 13:02	J1T	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	376409	10/26/21 09:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376787	10/27/21 13:03	RSK	TAL PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			50 mL	50 mL	376409	10/26/21 09:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376823	10/28/21 07:51	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	375438	10/15/21 12:00	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			375800	10/19/21 10:09	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	375445	10/15/21 12:49	KMM	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-1
SDG: Ash Pond

Client Sample ID: APMW-3D

Lab Sample ID: 180-128480-6

Date Collected: 10/11/21 12:20

Matrix: Water

Date Received: 10/13/21 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			375369	10/15/21 11:15	J1T	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	376409	10/26/21 09:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376787	10/27/21 13:06	RSK	TAL PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			50 mL	50 mL	376409	10/26/21 09:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376823	10/28/21 07:54	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	375438	10/15/21 12:00	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			375800	10/19/21 10:10	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	375445	10/15/21 12:49	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-9

Lab Sample ID: 180-128480-7

Date Collected: 10/12/21 07:54

Matrix: Water

Date Received: 10/13/21 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5			375369	10/15/21 11:33	J1T	TAL PIT
Instrument ID: INTEGRION										
Total/NA	Analysis	300.0		50			375369	10/15/21 11:51	J1T	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	376409	10/26/21 09:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376787	10/27/21 13:09	RSK	TAL PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			50 mL	50 mL	376409	10/26/21 09:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		5			376823	10/28/21 07:57	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	375439	10/15/21 12:00	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			375826	10/19/21 11:11	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	375445	10/15/21 12:49	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-8D

Lab Sample ID: 180-128480-8

Date Collected: 10/12/21 08:47

Matrix: Water

Date Received: 10/13/21 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			375369	10/15/21 13:20	J1T	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	376409	10/26/21 09:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376787	10/27/21 13:19	RSK	TAL PIT
Instrument ID: DORY										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-1
SDG: Ash Pond

Client Sample ID: APMW-8D
Date Collected: 10/12/21 08:47
Date Received: 10/13/21 15:30

Lab Sample ID: 180-128480-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	376409	10/26/21 09:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376823	10/28/21 08:00	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	375439	10/15/21 12:00	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			375826	10/19/21 11:12	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	375445	10/15/21 12:49	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-10D
Date Collected: 10/12/21 11:09
Date Received: 10/13/21 15:30

Lab Sample ID: 180-128480-9
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	300.0		1			375369	10/15/21 13:38	J1T	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	376409	10/26/21 09:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376787	10/27/21 13:22	RSK	TAL PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			50 mL	50 mL	376409	10/26/21 09:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376823	10/28/21 08:02	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	375439	10/15/21 12:00	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			375826	10/19/21 11:13	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	375445	10/15/21 12:49	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-10
Date Collected: 10/12/21 12:57
Date Received: 10/13/21 15:30

Lab Sample ID: 180-128480-10
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	300.0		2.5			375369	10/15/21 16:19	J1T	TAL PIT
Instrument ID: INTEGRION										
Total/NA	Analysis	300.0		25			375369	10/15/21 16:37	J1T	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	376409	10/26/21 09:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376787	10/27/21 13:26	RSK	TAL PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			50 mL	50 mL	376409	10/26/21 09:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376823	10/28/21 08:17	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	375439	10/15/21 12:00	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			375826	10/19/21 11:14	RJR	TAL PIT
Instrument ID: HGZ										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-1
SDG: Ash Pond

Client Sample ID: APMW-10

Lab Sample ID: 180-128480-10

Date Collected: 10/12/21 12:57

Matrix: Water

Date Received: 10/13/21 15:30

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	50 mL	100 mL	375445	10/15/21 12:49	KMM	TAL PIT

Client Sample ID: DUP-02

Lab Sample ID: 180-128480-11

Date Collected: 10/12/21 13:05

Matrix: Water

Date Received: 10/13/21 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0 Instrument ID: INTEGRION		2.5			375369	10/15/21 16:55	J1T	TAL PIT
Total/NA	Analysis	300.0 Instrument ID: INTEGRION		25			375369	10/15/21 17:13	J1T	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	376409	10/26/21 09:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: DORY		1			376787	10/27/21 13:29	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	376409	10/26/21 09:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			376823	10/28/21 08:19	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	375439	10/15/21 12:00	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			375826	10/19/21 11:15	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	50 mL	100 mL	375445	10/15/21 12:49	KMM	TAL PIT

Laboratory References:

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

Analyst References:

Lab: TAL PIT

Batch Type: Prep

MM1 = Mary Beth Miller

Batch Type: Analysis

J1T = Jianwu Tang

KMM = Kendric Moore

RJR = Ron Rosenbaum

RSK = Robert Kurtz

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-1
SDG: Ash Pond

Client Sample ID: APMW-11

Lab Sample ID: 180-128480-1

Date Collected: 10/11/21 09:58

Matrix: Water

Date Received: 10/13/21 15:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.9		1.0	0.71	mg/L			10/15/21 09:46	1
Fluoride	0.041	J	0.20	0.026	mg/L			10/15/21 09:46	1
Sulfate	<0.76		1.0	0.76	mg/L			10/15/21 09:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/26/21 09:00	10/27/21 12:49	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		10/26/21 09:00	10/27/21 12:49	1
Barium	0.037		0.010	0.0016	mg/L		10/26/21 09:00	10/27/21 12:49	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/26/21 09:00	10/27/21 12:49	1
Boron	0.053	J	0.080	0.039	mg/L		10/26/21 09:00	10/28/21 07:40	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/26/21 09:00	10/27/21 12:49	1
Calcium	11		0.50	0.13	mg/L		10/26/21 09:00	10/27/21 12:49	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/26/21 09:00	10/27/21 12:49	1
Cobalt	0.00044	J	0.0025	0.00013	mg/L		10/26/21 09:00	10/27/21 12:49	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/26/21 09:00	10/27/21 12:49	1
Lithium	0.0089		0.0050	0.0034	mg/L		10/26/21 09:00	10/27/21 12:49	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/26/21 09:00	10/27/21 12:49	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/26/21 09:00	10/27/21 12:49	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/26/21 09:00	10/27/21 12:49	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/15/21 12:00	10/19/21 10:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	80		10	10	mg/L			10/15/21 12:49	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-1
SDG: Ash Pond

Client Sample ID: DUP-01

Lab Sample ID: 180-128480-2

Date Collected: 10/11/21 09:58

Matrix: Water

Date Received: 10/13/21 15:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.6		1.0	0.71	mg/L			10/15/21 10:40	1
Fluoride	0.039	J	0.20	0.026	mg/L			10/15/21 10:40	1
Sulfate	<0.76		1.0	0.76	mg/L			10/15/21 10:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/26/21 09:00	10/27/21 12:53	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		10/26/21 09:00	10/27/21 12:53	1
Barium	0.036		0.010	0.0016	mg/L		10/26/21 09:00	10/27/21 12:53	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/26/21 09:00	10/27/21 12:53	1
Boron	0.041	J	0.080	0.039	mg/L		10/26/21 09:00	10/28/21 07:43	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/26/21 09:00	10/27/21 12:53	1
Calcium	10		0.50	0.13	mg/L		10/26/21 09:00	10/27/21 12:53	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/26/21 09:00	10/27/21 12:53	1
Cobalt	0.00042	J	0.0025	0.00013	mg/L		10/26/21 09:00	10/27/21 12:53	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/26/21 09:00	10/27/21 12:53	1
Lithium	0.0091		0.0050	0.0034	mg/L		10/26/21 09:00	10/27/21 12:53	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/26/21 09:00	10/27/21 12:53	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/26/21 09:00	10/27/21 12:53	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/26/21 09:00	10/27/21 12:53	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/15/21 12:00	10/19/21 10:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	69		10	10	mg/L			10/15/21 12:49	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-1
SDG: Ash Pond

Client Sample ID: APMW-12

Lab Sample ID: 180-128480-3

Date Collected: 10/11/21 10:52

Matrix: Water

Date Received: 10/13/21 15:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15		1.0	0.71	mg/L			10/15/21 10:57	1
Fluoride	0.079	J	0.20	0.026	mg/L			10/15/21 10:57	1
Sulfate	<0.76		1.0	0.76	mg/L			10/15/21 10:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/26/21 09:00	10/27/21 12:56	1
Arsenic	0.00031	J	0.0010	0.00031	mg/L		10/26/21 09:00	10/27/21 12:56	1
Barium	0.060		0.010	0.0016	mg/L		10/26/21 09:00	10/27/21 12:56	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/26/21 09:00	10/27/21 12:56	1
Boron	0.045	J	0.080	0.039	mg/L		10/26/21 09:00	10/28/21 07:46	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/26/21 09:00	10/27/21 12:56	1
Calcium	12		0.50	0.13	mg/L		10/26/21 09:00	10/27/21 12:56	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/26/21 09:00	10/27/21 12:56	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/26/21 09:00	10/27/21 12:56	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/26/21 09:00	10/27/21 12:56	1
Lithium	0.015		0.0050	0.0034	mg/L		10/26/21 09:00	10/27/21 12:56	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/26/21 09:00	10/27/21 12:56	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/26/21 09:00	10/27/21 12:56	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/26/21 09:00	10/27/21 12:56	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/15/21 12:00	10/19/21 10:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	120		10	10	mg/L			10/15/21 12:49	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-1
SDG: Ash Pond

Client Sample ID: EB-01
Date Collected: 10/11/21 11:06
Date Received: 10/13/21 15:30

Lab Sample ID: 180-128480-4
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			10/15/21 12:45	1
Fluoride	<0.026		0.20	0.026	mg/L			10/15/21 12:45	1
Sulfate	<0.76		1.0	0.76	mg/L			10/15/21 12:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/26/21 09:00	10/27/21 12:59	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		10/26/21 09:00	10/27/21 12:59	1
Barium	<0.0016		0.010	0.0016	mg/L		10/26/21 09:00	10/27/21 12:59	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/26/21 09:00	10/27/21 12:59	1
Boron	<0.039		0.080	0.039	mg/L		10/26/21 09:00	10/28/21 07:48	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/26/21 09:00	10/27/21 12:59	1
Calcium	<0.13		0.50	0.13	mg/L		10/26/21 09:00	10/27/21 12:59	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/26/21 09:00	10/27/21 12:59	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/26/21 09:00	10/27/21 12:59	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/26/21 09:00	10/27/21 12:59	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/26/21 09:00	10/27/21 12:59	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/26/21 09:00	10/27/21 12:59	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/26/21 09:00	10/27/21 12:59	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/26/21 09:00	10/27/21 12:59	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/15/21 12:00	10/19/21 10:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			10/15/21 12:49	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-1
SDG: Ash Pond

Client Sample ID: FB-01
Date Collected: 10/11/21 11:10
Date Received: 10/13/21 15:30

Lab Sample ID: 180-128480-5
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			10/15/21 13:02	1
Fluoride	<0.026		0.20	0.026	mg/L			10/15/21 13:02	1
Sulfate	<0.76		1.0	0.76	mg/L			10/15/21 13:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/26/21 09:00	10/27/21 13:03	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		10/26/21 09:00	10/27/21 13:03	1
Barium	<0.0016		0.010	0.0016	mg/L		10/26/21 09:00	10/27/21 13:03	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/26/21 09:00	10/27/21 13:03	1
Boron	<0.039		0.080	0.039	mg/L		10/26/21 09:00	10/28/21 07:51	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/26/21 09:00	10/27/21 13:03	1
Calcium	<0.13		0.50	0.13	mg/L		10/26/21 09:00	10/27/21 13:03	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/26/21 09:00	10/27/21 13:03	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/26/21 09:00	10/27/21 13:03	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/26/21 09:00	10/27/21 13:03	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/26/21 09:00	10/27/21 13:03	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/26/21 09:00	10/27/21 13:03	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/26/21 09:00	10/27/21 13:03	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/26/21 09:00	10/27/21 13:03	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/15/21 12:00	10/19/21 10:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			10/15/21 12:49	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-1
SDG: Ash Pond

Client Sample ID: APMW-3D

Lab Sample ID: 180-128480-6

Date Collected: 10/11/21 12:20

Matrix: Water

Date Received: 10/13/21 15:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17		1.0	0.71	mg/L			10/15/21 11:15	1
Fluoride	0.14	J	0.20	0.026	mg/L			10/15/21 11:15	1
Sulfate	4.8		1.0	0.76	mg/L			10/15/21 11:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/26/21 09:00	10/27/21 13:06	1
Arsenic	0.0037		0.0010	0.00031	mg/L		10/26/21 09:00	10/27/21 13:06	1
Barium	0.18		0.010	0.0016	mg/L		10/26/21 09:00	10/27/21 13:06	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/26/21 09:00	10/27/21 13:06	1
Boron	0.073	J	0.080	0.039	mg/L		10/26/21 09:00	10/28/21 07:54	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/26/21 09:00	10/27/21 13:06	1
Calcium	11		0.50	0.13	mg/L		10/26/21 09:00	10/27/21 13:06	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/26/21 09:00	10/27/21 13:06	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/26/21 09:00	10/27/21 13:06	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/26/21 09:00	10/27/21 13:06	1
Lithium	0.020		0.0050	0.0034	mg/L		10/26/21 09:00	10/27/21 13:06	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/26/21 09:00	10/27/21 13:06	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/26/21 09:00	10/27/21 13:06	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/26/21 09:00	10/27/21 13:06	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/15/21 12:00	10/19/21 10:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	170		10	10	mg/L			10/15/21 12:49	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-1
SDG: Ash Pond

Client Sample ID: APMW-9

Lab Sample ID: 180-128480-7

Date Collected: 10/12/21 07:54

Matrix: Water

Date Received: 10/13/21 15:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3000		50	36	mg/L			10/15/21 11:51	50
Fluoride	<0.13		1.0	0.13	mg/L			10/15/21 11:33	5
Sulfate	270		5.0	3.8	mg/L			10/15/21 11:33	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/26/21 09:00	10/27/21 13:09	1
Arsenic	0.0013		0.0010	0.00031	mg/L		10/26/21 09:00	10/27/21 13:09	1
Barium	0.49		0.010	0.0016	mg/L		10/26/21 09:00	10/27/21 13:09	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/26/21 09:00	10/27/21 13:09	1
Boron	6.7		0.40	0.19	mg/L		10/26/21 09:00	10/28/21 07:57	5
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/26/21 09:00	10/27/21 13:09	1
Calcium	300		0.50	0.13	mg/L		10/26/21 09:00	10/27/21 13:09	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/26/21 09:00	10/27/21 13:09	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/26/21 09:00	10/27/21 13:09	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/26/21 09:00	10/27/21 13:09	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/26/21 09:00	10/27/21 13:09	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/26/21 09:00	10/27/21 13:09	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/26/21 09:00	10/27/21 13:09	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/26/21 09:00	10/27/21 13:09	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/15/21 12:00	10/19/21 11:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	7000		100	100	mg/L			10/15/21 12:49	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-1
SDG: Ash Pond

Client Sample ID: APMW-8D

Lab Sample ID: 180-128480-8

Date Collected: 10/12/21 08:47

Matrix: Water

Date Received: 10/13/21 15:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		1.0	0.71	mg/L			10/15/21 13:20	1
Fluoride	0.15	J	0.20	0.026	mg/L			10/15/21 13:20	1
Sulfate	0.83	J	1.0	0.76	mg/L			10/15/21 13:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/26/21 09:00	10/27/21 13:19	1
Arsenic	0.0044		0.0010	0.00031	mg/L		10/26/21 09:00	10/27/21 13:19	1
Barium	0.14		0.010	0.0016	mg/L		10/26/21 09:00	10/27/21 13:19	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/26/21 09:00	10/27/21 13:19	1
Boron	0.077	J	0.080	0.039	mg/L		10/26/21 09:00	10/28/21 08:00	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/26/21 09:00	10/27/21 13:19	1
Calcium	9.4		0.50	0.13	mg/L		10/26/21 09:00	10/27/21 13:19	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/26/21 09:00	10/27/21 13:19	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/26/21 09:00	10/27/21 13:19	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/26/21 09:00	10/27/21 13:19	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/26/21 09:00	10/27/21 13:19	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/26/21 09:00	10/27/21 13:19	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/26/21 09:00	10/27/21 13:19	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/26/21 09:00	10/27/21 13:19	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/15/21 12:00	10/19/21 11:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	170		10	10	mg/L			10/15/21 12:49	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-1
SDG: Ash Pond

Client Sample ID: APMW-10D

Lab Sample ID: 180-128480-9

Date Collected: 10/12/21 11:09

Matrix: Water

Date Received: 10/13/21 15:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.2		1.0	0.71	mg/L			10/15/21 13:38	1
Fluoride	0.22		0.20	0.026	mg/L			10/15/21 13:38	1
Sulfate	2.4		1.0	0.76	mg/L			10/15/21 13:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/26/21 09:00	10/27/21 13:22	1
Arsenic	0.011		0.0010	0.00031	mg/L		10/26/21 09:00	10/27/21 13:22	1
Barium	0.027		0.010	0.0016	mg/L		10/26/21 09:00	10/27/21 13:22	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/26/21 09:00	10/27/21 13:22	1
Boron	0.14		0.080	0.039	mg/L		10/26/21 09:00	10/28/21 08:02	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/26/21 09:00	10/27/21 13:22	1
Calcium	3.6		0.50	0.13	mg/L		10/26/21 09:00	10/27/21 13:22	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/26/21 09:00	10/27/21 13:22	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/26/21 09:00	10/27/21 13:22	1
Lead	0.00063	J	0.0010	0.00013	mg/L		10/26/21 09:00	10/27/21 13:22	1
Lithium	0.019		0.0050	0.0034	mg/L		10/26/21 09:00	10/27/21 13:22	1
Molybdenum	0.0099	J	0.015	0.00061	mg/L		10/26/21 09:00	10/27/21 13:22	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/26/21 09:00	10/27/21 13:22	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/26/21 09:00	10/27/21 13:22	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/15/21 12:00	10/19/21 11:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	160		10	10	mg/L			10/15/21 12:49	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-1
 SDG: Ash Pond

Client Sample ID: APMW-10

Lab Sample ID: 180-128480-10

Date Collected: 10/12/21 12:57

Matrix: Water

Date Received: 10/13/21 15:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	860		25	18	mg/L			10/15/21 16:37	25
Fluoride	0.66		0.50	0.065	mg/L			10/15/21 16:19	2.5
Sulfate	4.0		2.5	1.9	mg/L			10/15/21 16:19	2.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/26/21 09:00	10/27/21 13:26	1
Arsenic	0.028		0.0010	0.00031	mg/L		10/26/21 09:00	10/27/21 13:26	1
Barium	0.34		0.010	0.0016	mg/L		10/26/21 09:00	10/27/21 13:26	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/26/21 09:00	10/27/21 13:26	1
Boron	1.9		0.080	0.039	mg/L		10/26/21 09:00	10/28/21 08:17	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/26/21 09:00	10/27/21 13:26	1
Calcium	52		0.50	0.13	mg/L		10/26/21 09:00	10/27/21 13:26	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/26/21 09:00	10/27/21 13:26	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/26/21 09:00	10/27/21 13:26	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/26/21 09:00	10/27/21 13:26	1
Lithium	0.0056		0.0050	0.0034	mg/L		10/26/21 09:00	10/27/21 13:26	1
Molybdenum	0.033		0.015	0.00061	mg/L		10/26/21 09:00	10/27/21 13:26	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/26/21 09:00	10/27/21 13:26	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/26/21 09:00	10/27/21 13:26	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/15/21 12:00	10/19/21 11:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2300		20	20	mg/L			10/15/21 12:49	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-1
SDG: Ash Pond

Client Sample ID: DUP-02

Lab Sample ID: 180-128480-11

Date Collected: 10/12/21 13:05

Matrix: Water

Date Received: 10/13/21 15:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	900		25	18	mg/L			10/15/21 17:13	25
Fluoride	0.78		0.50	0.065	mg/L			10/15/21 16:55	2.5
Sulfate	6.3		2.5	1.9	mg/L			10/15/21 16:55	2.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/26/21 09:00	10/27/21 13:29	1
Arsenic	0.028		0.0010	0.00031	mg/L		10/26/21 09:00	10/27/21 13:29	1
Barium	0.35		0.010	0.0016	mg/L		10/26/21 09:00	10/27/21 13:29	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/26/21 09:00	10/27/21 13:29	1
Boron	1.8		0.080	0.039	mg/L		10/26/21 09:00	10/28/21 08:19	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/26/21 09:00	10/27/21 13:29	1
Calcium	54		0.50	0.13	mg/L		10/26/21 09:00	10/27/21 13:29	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/26/21 09:00	10/27/21 13:29	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/26/21 09:00	10/27/21 13:29	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/26/21 09:00	10/27/21 13:29	1
Lithium	0.0056		0.0050	0.0034	mg/L		10/26/21 09:00	10/27/21 13:29	1
Molybdenum	0.033		0.015	0.00061	mg/L		10/26/21 09:00	10/27/21 13:29	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/26/21 09:00	10/27/21 13:29	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/26/21 09:00	10/27/21 13:29	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/15/21 12:00	10/19/21 11:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1800		20	20	mg/L			10/15/21 12:49	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-1
SDG: Ash Pond

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 180-375369/6
Matrix: Water
Analysis Batch: 375369

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			10/15/21 09:18	1
Fluoride	<0.026		0.20	0.026	mg/L			10/15/21 09:18	1
Sulfate	<0.76		1.0	0.76	mg/L			10/15/21 09:18	1

Lab Sample ID: LCS 180-375369/5
Matrix: Water
Analysis Batch: 375369

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	50.6		mg/L		101	90 - 110
Fluoride	2.50	2.47		mg/L		99	90 - 110
Sulfate	50.0	48.8		mg/L		98	90 - 110

Lab Sample ID: 180-128480-1 MS
Matrix: Water
Analysis Batch: 375369

Client Sample ID: APMW-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	8.9		50.0	61.1		mg/L		104	90 - 110
Fluoride	0.041	J	2.50	2.74		mg/L		108	90 - 110
Sulfate	<0.76		50.0	51.5		mg/L		103	90 - 110

Lab Sample ID: 180-128480-1 MSD
Matrix: Water
Analysis Batch: 375369

Client Sample ID: APMW-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	8.9		50.0	59.0		mg/L		100	90 - 110	4	20
Fluoride	0.041	J	2.50	2.59		mg/L		102	90 - 110	6	20
Sulfate	<0.76		50.0	49.7		mg/L		99	90 - 110	4	20

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

Lab Sample ID: MB 180-376409/1-A
Matrix: Water
Analysis Batch: 376787

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 376409

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/26/21 09:00	10/27/21 12:00	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		10/26/21 09:00	10/27/21 12:00	1
Barium	<0.0016		0.010	0.0016	mg/L		10/26/21 09:00	10/27/21 12:00	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/26/21 09:00	10/27/21 12:00	1
Boron	<0.039		0.080	0.039	mg/L		10/26/21 09:00	10/27/21 12:00	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/26/21 09:00	10/27/21 12:00	1
Calcium	<0.13		0.50	0.13	mg/L		10/26/21 09:00	10/27/21 12:00	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/26/21 09:00	10/27/21 12:00	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/26/21 09:00	10/27/21 12:00	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/26/21 09:00	10/27/21 12:00	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/26/21 09:00	10/27/21 12:00	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/26/21 09:00	10/27/21 12:00	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-1
SDG: Ash Pond

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

Lab Sample ID: MB 180-376409/1-A
Matrix: Water
Analysis Batch: 376787

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 376409

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.0015		0.0050	0.0015	mg/L		10/26/21 09:00	10/27/21 12:00	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/26/21 09:00	10/27/21 12:00	1

Lab Sample ID: LCS 180-376409/2-A
Matrix: Water
Analysis Batch: 376787

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 376409

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.250	0.235		mg/L		94	80 - 120
Arsenic	1.00	0.984		mg/L		98	80 - 120
Barium	1.00	1.00		mg/L		100	80 - 120
Beryllium	0.500	0.506		mg/L		101	80 - 120
Boron	1.25	1.23		mg/L		98	80 - 120
Cadmium	0.500	0.499		mg/L		100	80 - 120
Calcium	25.0	27.5		mg/L		110	80 - 120
Chromium	0.500	0.500		mg/L		100	80 - 120
Cobalt	0.500	0.489		mg/L		98	80 - 120
Lead	0.500	0.507		mg/L		101	80 - 120
Lithium	0.500	0.532		mg/L		106	80 - 120
Molybdenum	0.500	0.508		mg/L		102	80 - 120
Selenium	1.00	1.06		mg/L		106	80 - 120
Thallium	1.00	1.12		mg/L		112	80 - 120

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-375438/1-A
Matrix: Water
Analysis Batch: 375800

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 375438

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/15/21 12:00	10/19/21 09:57	1

Lab Sample ID: LCS 180-375438/2-A
Matrix: Water
Analysis Batch: 375800

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375438

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00246		mg/L		98	80 - 120

Lab Sample ID: MB 180-375439/1-A
Matrix: Water
Analysis Batch: 375826

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 375439

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/15/21 12:00	10/19/21 10:48	1

QC Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-1
 SDG: Ash Pond

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

Lab Sample ID: LCS 180-375439/2-A
 Matrix: Water
 Analysis Batch: 375826

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 375439

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00236		mg/L		94	80 - 120

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

Lab Sample ID: MB 180-375445/2
 Matrix: Water
 Analysis Batch: 375445

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		10	10	mg/L			10/15/21 12:49	1

Lab Sample ID: LCS 180-375445/1
 Matrix: Water
 Analysis Batch: 375445

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	422	430		mg/L		102	80 - 120

Lab Sample ID: 180-128480-1 DU
 Matrix: Water
 Analysis Batch: 375445

Client Sample ID: APMW-11
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	80		84.0		mg/L		5	10

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-1
SDG: Ash Pond

HPLC/IC

Analysis Batch: 375369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128480-1	APMW-11	Total/NA	Water	300.0	
180-128480-2	DUP-01	Total/NA	Water	300.0	
180-128480-3	APMW-12	Total/NA	Water	300.0	
180-128480-4	EB-01	Total/NA	Water	300.0	
180-128480-5	FB-01	Total/NA	Water	300.0	
180-128480-6	APMW-3D	Total/NA	Water	300.0	
180-128480-7	APMW-9	Total/NA	Water	300.0	
180-128480-7	APMW-9	Total/NA	Water	300.0	
180-128480-8	APMW-8D	Total/NA	Water	300.0	
180-128480-9	APMW-10D	Total/NA	Water	300.0	
180-128480-10	APMW-10	Total/NA	Water	300.0	
180-128480-10	APMW-10	Total/NA	Water	300.0	
180-128480-11	DUP-02	Total/NA	Water	300.0	
180-128480-11	DUP-02	Total/NA	Water	300.0	
MB 180-375369/6	Method Blank	Total/NA	Water	300.0	
LCS 180-375369/5	Lab Control Sample	Total/NA	Water	300.0	
180-128480-1 MS	APMW-11	Total/NA	Water	300.0	
180-128480-1 MSD	APMW-11	Total/NA	Water	300.0	

Metals

Prep Batch: 375438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128480-1	APMW-11	Total/NA	Water	7470A	
180-128480-2	DUP-01	Total/NA	Water	7470A	
180-128480-3	APMW-12	Total/NA	Water	7470A	
180-128480-4	EB-01	Total/NA	Water	7470A	
180-128480-5	FB-01	Total/NA	Water	7470A	
180-128480-6	APMW-3D	Total/NA	Water	7470A	
MB 180-375438/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-375438/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 375439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128480-7	APMW-9	Total/NA	Water	7470A	
180-128480-8	APMW-8D	Total/NA	Water	7470A	
180-128480-9	APMW-10D	Total/NA	Water	7470A	
180-128480-10	APMW-10	Total/NA	Water	7470A	
180-128480-11	DUP-02	Total/NA	Water	7470A	
MB 180-375439/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-375439/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 375800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128480-1	APMW-11	Total/NA	Water	EPA 7470A	375438
180-128480-2	DUP-01	Total/NA	Water	EPA 7470A	375438
180-128480-3	APMW-12	Total/NA	Water	EPA 7470A	375438
180-128480-4	EB-01	Total/NA	Water	EPA 7470A	375438
180-128480-5	FB-01	Total/NA	Water	EPA 7470A	375438
180-128480-6	APMW-3D	Total/NA	Water	EPA 7470A	375438
MB 180-375438/1-A	Method Blank	Total/NA	Water	EPA 7470A	375438

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-1
SDG: Ash Pond

Metals (Continued)

Analysis Batch: 375800 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-375438/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	375438

Analysis Batch: 375826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128480-7	APMW-9	Total/NA	Water	EPA 7470A	375439
180-128480-8	APMW-8D	Total/NA	Water	EPA 7470A	375439
180-128480-9	APMW-10D	Total/NA	Water	EPA 7470A	375439
180-128480-10	APMW-10	Total/NA	Water	EPA 7470A	375439
180-128480-11	DUP-02	Total/NA	Water	EPA 7470A	375439
MB 180-375439/1-A	Method Blank	Total/NA	Water	EPA 7470A	375439
LCS 180-375439/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	375439

Prep Batch: 376409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128480-1	APMW-11	Total Recoverable	Water	3005A	
180-128480-2	DUP-01	Total Recoverable	Water	3005A	
180-128480-3	APMW-12	Total Recoverable	Water	3005A	
180-128480-4	EB-01	Total Recoverable	Water	3005A	
180-128480-5	FB-01	Total Recoverable	Water	3005A	
180-128480-6	APMW-3D	Total Recoverable	Water	3005A	
180-128480-7	APMW-9	Total Recoverable	Water	3005A	
180-128480-8	APMW-8D	Total Recoverable	Water	3005A	
180-128480-9	APMW-10D	Total Recoverable	Water	3005A	
180-128480-10	APMW-10	Total Recoverable	Water	3005A	
180-128480-11	DUP-02	Total Recoverable	Water	3005A	
MB 180-376409/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-376409/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 376787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128480-1	APMW-11	Total Recoverable	Water	EPA 6020B	376409
180-128480-2	DUP-01	Total Recoverable	Water	EPA 6020B	376409
180-128480-3	APMW-12	Total Recoverable	Water	EPA 6020B	376409
180-128480-4	EB-01	Total Recoverable	Water	EPA 6020B	376409
180-128480-5	FB-01	Total Recoverable	Water	EPA 6020B	376409
180-128480-6	APMW-3D	Total Recoverable	Water	EPA 6020B	376409
180-128480-7	APMW-9	Total Recoverable	Water	EPA 6020B	376409
180-128480-8	APMW-8D	Total Recoverable	Water	EPA 6020B	376409
180-128480-9	APMW-10D	Total Recoverable	Water	EPA 6020B	376409
180-128480-10	APMW-10	Total Recoverable	Water	EPA 6020B	376409
180-128480-11	DUP-02	Total Recoverable	Water	EPA 6020B	376409
MB 180-376409/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	376409
LCS 180-376409/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	376409

Analysis Batch: 376823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128480-1	APMW-11	Total Recoverable	Water	EPA 6020B	376409
180-128480-2	DUP-01	Total Recoverable	Water	EPA 6020B	376409
180-128480-3	APMW-12	Total Recoverable	Water	EPA 6020B	376409
180-128480-4	EB-01	Total Recoverable	Water	EPA 6020B	376409
180-128480-5	FB-01	Total Recoverable	Water	EPA 6020B	376409

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-1
SDG: Ash Pond

Metals (Continued)

Analysis Batch: 376823 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128480-6	APMW-3D	Total Recoverable	Water	EPA 6020B	376409
180-128480-7	APMW-9	Total Recoverable	Water	EPA 6020B	376409
180-128480-8	APMW-8D	Total Recoverable	Water	EPA 6020B	376409
180-128480-9	APMW-10D	Total Recoverable	Water	EPA 6020B	376409
180-128480-10	APMW-10	Total Recoverable	Water	EPA 6020B	376409
180-128480-11	DUP-02	Total Recoverable	Water	EPA 6020B	376409

General Chemistry

Analysis Batch: 375445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128480-1	APMW-11	Total/NA	Water	SM 2540C	
180-128480-2	DUP-01	Total/NA	Water	SM 2540C	
180-128480-3	APMW-12	Total/NA	Water	SM 2540C	
180-128480-4	EB-01	Total/NA	Water	SM 2540C	
180-128480-5	FB-01	Total/NA	Water	SM 2540C	
180-128480-6	APMW-3D	Total/NA	Water	SM 2540C	
180-128480-7	APMW-9	Total/NA	Water	SM 2540C	
180-128480-8	APMW-8D	Total/NA	Water	SM 2540C	
180-128480-9	APMW-10D	Total/NA	Water	SM 2540C	
180-128480-10	APMW-10	Total/NA	Water	SM 2540C	
180-128480-11	DUP-02	Total/NA	Water	SM 2540C	
MB 180-375445/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-375445/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-128480-1 DU	APMW-11	Total/NA	Water	SM 2540C	

Eurofins TestAmerica, Pittsburgh

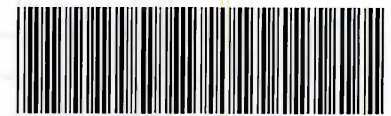
301 Alpha Drive RIDC Park
 Pittsburgh, PA 15238
 Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

244-ATLANTA

eurofins
 Environment Testing
 America

Client Information		Sampler: <u>Brent Surles</u>		Lab PM: Brown, Shali		Carrier Tracking No(s):		COC No:																																												
Client Contact: SCS Contacts		Phone: <u>850 380 3458</u>		E-Mail: shali.brown@eurofinset.com				Page:																																												
Company: SCS				Analysis Requested						Job #:																																										
Address: 3535 Colonnade Pkwy Bin S 530 EC		Due Date Requested:		<table border="1"> <tr> <td>Field Filtered Sample (Yes or No)</td> <td>Perform MS/MSD (Yes or No)</td> <td>2540C Total Dissolved Solids</td> <td>300_28Day Chloride Fluoride Sulfate</td> <td>6020B17470 Custom 14 (AppIII/AppV) + Mercury</td> <td>9315_Ra226 Radium 226</td> <td>9320_Ra228 Radium 228</td> <td>Combined RAD</td> <td rowspan="5">Total Number of containers</td> </tr> <tr> <td>TAT Requested (days):</td> <td>PO #: SCS10382606</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>City: Birmingham</td> <td>WO #:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>State, Zip: AL 35243</td> <td>Project #: 18020186</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Phone: 205-992-6283</td> <td>SSOW#:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>						Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C Total Dissolved Solids	300_28Day Chloride Fluoride Sulfate	6020B17470 Custom 14 (AppIII/AppV) + Mercury	9315_Ra226 Radium 226	9320_Ra228 Radium 228	Combined RAD	Total Number of containers	TAT Requested (days):	PO #: SCS10382606							City: Birmingham	WO #:							State, Zip: AL 35243	Project #: 18020186							Phone: 205-992-6283	SSOW#:							Preservation Codes:	
Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C Total Dissolved Solids	300_28Day Chloride Fluoride Sulfate							6020B17470 Custom 14 (AppIII/AppV) + Mercury	9315_Ra226 Radium 226	9320_Ra228 Radium 228	Combined RAD	Total Number of containers																																						
TAT Requested (days):	PO #: SCS10382606																																																			
City: Birmingham	WO #:																																																			
State, Zip: AL 35243	Project #: 18020186																																																			
Phone: 205-992-6283	SSOW#:																																																			
City: Birmingham		TAT Requested (days):		A - HCL		M - Hexane		N - None																																												
State, Zip: AL 35243		Project #: 18020186		C - Zn Acetate		O - AsNaO2		P - Na2O4S																																												
Phone: 205-992-6283		SSOW#:		D - Nitric Acid		Q - Na2SO3		R - Na2S2O3																																												
Email: SCS Contacts		Project Name: Plant Watson		E - NaHSO4		S - H2SO4		T - TSP Dodecahydrate																																												
Project Name: Plant Watson		Site: Ash Pond		F - MeOH		U - Acetone		V - MCAA																																												
Site: Ash Pond		Sample Identification		G - Amchlor		W - pH 4-5		Z - other (specify)																																												
Sample Date		Sample Time		H - Ascorbic Acid		J - DI Water		K - EDTA																																												
Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		L - EDA		Other:		Special Instructions/Note:																																												
Preservation Code:																																																				
APMW-11		10/11/21 0958		G W		X X X X X X																																														
Dup-01		10/11/21 0958																																																		
APMW-12		10/11/21 1052																																																		
EB-01		10/11/21 1106																																																		
FB-01		10/11/21 1110																																																		
APMW-3d		10/11/21 1220																																																		
APMW-9		10/12/21 0754																																																		
APMW-8d		10/12/21 0847																																																		
APMW-10d		10/12/21 1109																																																		
APMW-10		10/12/21 1257																																																		
Dup-02		10/12/21 1305		G W		X X X X X																																														
Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																																																
<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				<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)				Special Instructions/QC Requirements:																																																
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:																																														
Relinquished by: <u>[Signature]</u>		Date/Time: <u>10/12/21 1400</u>		Company: <u>RDT</u>		Received by: <u>D. Watson</u>		Date/Time: <u>10-13-21 15:30</u>																																												
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:																																												
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:																																												
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:																																																



180-128480 Chain of Custody



Do Not Lift Using This Tag

ORIGIN ID: BIXA (850) 336-0192

RDH ENVIRONMENTAL
5720 DOVE DR

PACE, FL 32571
UNITED STATES US

SHIP DATE: 12OCT21
ACTWTG: 72.95 LB
CAD: 6993800/SSFE2220
DIMS: 23x12x13 IN

BILL THIRD PARTY

TO TEST AMERICA
TEST AMERICA
301 ALPHA DR

PITTSBURGH PA 15238

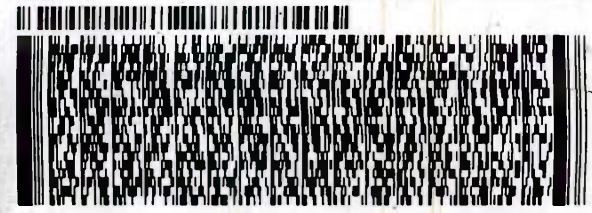
(412) 863-8222
INU:
PO:

REF:

DEPT:

0551
ms

158297-435-HH08-EX-08/22



FedEx
Express



AN1006/07/2021Z

1 of 2

TRK# 2848 0659 6226
0201

MASTER

WED - 13 OCT 4:30P
STANDARD OVERNIGHT

UI AGCA

15238
PA-US PIT

Uncorrected temp	<u>3.3</u> °C
Thermometer ID	<u>8</u>
CF <u>0</u>	Initials <u>veg</u>
PT-WI-SR-001 effective 11/8/18	

Do Not Lift Using This Label

ORIGIN ID: BIXA (850) 938-0182

RDH ENVIORMENTAL
5720 DOVE DR

PACE, FL 32571
UNITED STATES US

SHIP DATE: 10/13/21
ACTING TO: 10/13/21
POST: 858 1000
CMB: 2312113

BILL THIRD PARTY

TO TEST AMERICA
TEST AMERICA
301 ALPHA DR

PITTSBURGH

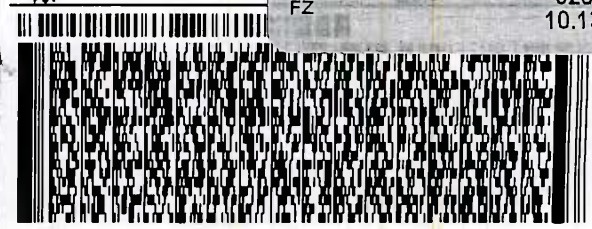
(412) 988-8222
INVT
P01

RT 98

16:30

6237
10.13

Handwritten: 250
250
250



FedEx
Express



J212021070901LV

2 of 2

MPS# 2848 0659 6237
0263

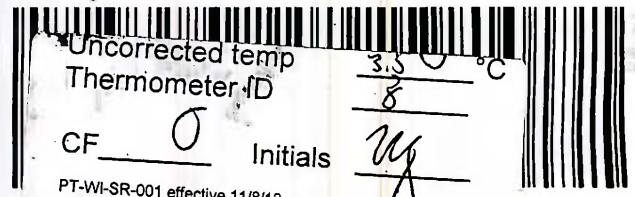
Metr# 2848 0659 6226

0201

WED - 13 OCT 4:30P
STANDARD OVERNIGHT

UI AGCA

15238
PA-US PIT



Uncorrected temp
Thermometer ID

3.3 °C

CF Initials

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

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-128480-1

SDG Number: Ash Pond

Login Number: 128480

List Number: 1

Creator: Watson, Debbie

List Source: Eurofins TestAmerica, Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-128480-2

Laboratory Sample Delivery Group: Ash Pond
Client Project/Site: Plant Watson Ash Pond

For:

Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Robert Singleton



Authorized for release by:
11/24/2021 6:38:48 AM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-2
SDG: Ash Pond

Job ID: 180-128480-2

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-128480-2

Comments

No additional comments.

Receipt

The samples were received on 10/13/2021 3:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.3° C and 3.5° C.

RAD

Methods 903.0, 9315: Radium 226 batch 533067

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. APMW-11 (180-128480-1), DUP-01 (180-128480-2), APMW-12 (180-128480-3), EB-01 (180-128480-4), FB-01 (180-128480-5), APMW-3D (180-128480-6), APMW-9 (180-128480-7), APMW-8D (180-128480-8), APMW-10D (180-128480-9), APMW-10 (180-128480-10), DUP-02 (180-128480-11), (LCS 160-533067/1-A), (LCSD 160-533067/2-A) and (MB 160-533067/22-A)

Methods 904.0, 9320: Ra228 160-533072

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. APMW-11 (180-128480-1), DUP-01 (180-128480-2), APMW-12 (180-128480-3), EB-01 (180-128480-4), FB-01 (180-128480-5), APMW-3D (180-128480-6), APMW-9 (180-128480-7), APMW-8D (180-128480-8), APMW-10D (180-128480-9), APMW-10 (180-128480-10) and DUP-02 (180-128480-11)

Method PrecSep_0: Radium-228 Prep Batch 160-533072

The following samples were prepared at a reduced aliquot due to Matrix: DUP-01 (180-128480-2), APMW-12 (180-128480-3), APMW-3D (180-128480-6), APMW-9 (180-128480-7), APMW-8D (180-128480-8), APMW-10D (180-128480-9), APMW-10 (180-128480-10) and DUP-02 (180-128480-11). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep_0: Radium-228 Prep Batch 160-533072

Insufficient sample volume was available to perform a sample duplicate for the following samples: APMW-11 (180-128480-1), EB-01 (180-128480-4) and FB-01 (180-128480-5). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium-226 Prep Batch 160-533067

The following samples were prepared at a reduced aliquot due to Matrix: DUP-01 (180-128480-2), APMW-12 (180-128480-3), APMW-3D (180-128480-6), APMW-9 (180-128480-7), APMW-8D (180-128480-8), APMW-10D (180-128480-9), APMW-10 (180-128480-10) and DUP-02 (180-128480-11). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep-21: Radium-226 Prep Batch 160-533067

Insufficient sample volume was available to perform a sample duplicate for the following samples: APMW-11 (180-128480-1), EB-01 (180-128480-4) and FB-01 (180-128480-5). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

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 Watson Ash Pond

Job ID: 180-128480-2
SDG: Ash Pond

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 Watson Ash Pond

Job ID: 180-128480-2
SDG: Ash Pond

Laboratory: Eurofins TestAmerica, 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	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-21
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	06-30-21 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	01-01-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-21
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-21
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	03-01-22
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

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

Sample Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-2
SDG: Ash Pond

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-128480-1	APMW-11	Water	10/11/21 09:58	10/13/21 15:30
180-128480-2	DUP-01	Water	10/11/21 09:58	10/13/21 15:30
180-128480-3	APMW-12	Water	10/11/21 10:52	10/13/21 15:30
180-128480-4	EB-01	Water	10/11/21 11:06	10/13/21 15:30
180-128480-5	FB-01	Water	10/11/21 11:10	10/13/21 15:30
180-128480-6	APMW-3D	Water	10/11/21 12:20	10/13/21 15:30
180-128480-7	APMW-9	Water	10/12/21 07:54	10/13/21 15:30
180-128480-8	APMW-8D	Water	10/12/21 08:47	10/13/21 15:30
180-128480-9	APMW-10D	Water	10/12/21 11:09	10/13/21 15:30
180-128480-10	APMW-10	Water	10/12/21 12:57	10/13/21 15:30
180-128480-11	DUP-02	Water	10/12/21 13:05	10/13/21 15:30

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- 13

Method Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-2
SDG: Ash Pond

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

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

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-2
SDG: Ash Pond

Client Sample ID: APMW-11

Lab Sample ID: 180-128480-1

Date Collected: 10/11/21 09:58

Matrix: Water

Date Received: 10/13/21 15:30

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			1000.78 mL	1.0 g	533067	10/21/21 13:40	BMP	TAL SL
Total/NA	Analysis	9315		1			536236	11/12/21 10:23	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.78 mL	1.0 g	533072	10/21/21 14:57	BMP	TAL SL
Total/NA	Analysis	9320		1			535806	11/10/21 12:23	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			537041	11/16/21 21:30	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-01

Lab Sample ID: 180-128480-2

Date Collected: 10/11/21 09:58

Matrix: Water

Date Received: 10/13/21 15:30

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			750.60 mL	1.0 g	533067	10/21/21 13:40	BMP	TAL SL
Total/NA	Analysis	9315		1			536236	11/12/21 10:23	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.60 mL	1.0 g	533072	10/21/21 14:57	BMP	TAL SL
Total/NA	Analysis	9320		1			535806	11/10/21 12:24	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			537041	11/16/21 21:30	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-12

Lab Sample ID: 180-128480-3

Date Collected: 10/11/21 10:52

Matrix: Water

Date Received: 10/13/21 15:30

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			750.60 mL	1.0 g	533067	10/21/21 13:40	BMP	TAL SL
Total/NA	Analysis	9315		1			536236	11/12/21 10:24	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.60 mL	1.0 g	533072	10/21/21 14:57	BMP	TAL SL
Total/NA	Analysis	9320		1			535806	11/10/21 12:24	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			537041	11/16/21 21:30	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-01

Lab Sample ID: 180-128480-4

Date Collected: 10/11/21 11:06

Matrix: Water

Date Received: 10/13/21 15:30

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			1000.43 mL	1.0 g	533067	10/21/21 13:40	BMP	TAL SL
Total/NA	Analysis	9315		1			536236	11/12/21 10:24	FLC	TAL SL
Instrument ID: GFPCBLUE										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-2
SDG: Ash Pond

Client Sample ID: EB-01

Date Collected: 10/11/21 11:06

Date Received: 10/13/21 15:30

Lab Sample ID: 180-128480-4

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			1000.43 mL	1.0 g	533072	10/21/21 14:57	BMP	TAL SL
Total/NA	Analysis	9320		1			535806	11/10/21 12:24	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			537041	11/16/21 21:30	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-01

Date Collected: 10/11/21 11:10

Date Received: 10/13/21 15:30

Lab Sample ID: 180-128480-5

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			1000.14 mL	1.0 g	533067	10/21/21 13:40	BMP	TAL SL
Total/NA	Analysis	9315		1			536236	11/12/21 10:24	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.14 mL	1.0 g	533072	10/21/21 14:57	BMP	TAL SL
Total/NA	Analysis	9320		1			535806	11/10/21 12:24	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			537041	11/16/21 21:30	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-3D

Date Collected: 10/11/21 12:20

Date Received: 10/13/21 15:30

Lab Sample ID: 180-128480-6

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			749.73 mL	1.0 g	533067	10/21/21 13:40	BMP	TAL SL
Total/NA	Analysis	9315		1			536236	11/12/21 10:24	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			749.73 mL	1.0 g	533072	10/21/21 14:57	BMP	TAL SL
Total/NA	Analysis	9320		1			535806	11/10/21 12:24	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			537041	11/16/21 21:30	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-9

Date Collected: 10/12/21 07:54

Date Received: 10/13/21 15:30

Lab Sample ID: 180-128480-7

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			750.29 mL	1.0 g	533067	10/21/21 13:40	BMP	TAL SL
Total/NA	Analysis	9315		1			536236	11/12/21 10:25	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.29 mL	1.0 g	533072	10/21/21 14:57	BMP	TAL SL
Total/NA	Analysis	9320		1			535806	11/10/21 12:24	FLC	TAL SL
Instrument ID: GFPCBLUE										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-2
SDG: Ash Pond

Client Sample ID: APMW-9

Lab Sample ID: 180-128480-7

Date Collected: 10/12/21 07:54

Matrix: Water

Date Received: 10/13/21 15:30

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			537041	11/16/21 21:30	MLK	TAL SL

Client Sample ID: APMW-8D

Lab Sample ID: 180-128480-8

Date Collected: 10/12/21 08:47

Matrix: Water

Date Received: 10/13/21 15:30

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			750.24 mL	1.0 g	533067	10/21/21 13:40	BMP	TAL SL
Total/NA	Analysis	9315		1			536236	11/12/21 10:25	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.24 mL	1.0 g	533072	10/21/21 14:57	BMP	TAL SL
Total/NA	Analysis	9320		1			535806	11/10/21 12:24	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			537041	11/16/21 21:30	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-10D

Lab Sample ID: 180-128480-9

Date Collected: 10/12/21 11:09

Matrix: Water

Date Received: 10/13/21 15:30

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			749.30 mL	1.0 g	533067	10/21/21 13:40	BMP	TAL SL
Total/NA	Analysis	9315		1			536236	11/12/21 10:25	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			749.30 mL	1.0 g	533072	10/21/21 14:57	BMP	TAL SL
Total/NA	Analysis	9320		1			535808	11/10/21 12:27	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			537041	11/16/21 21:30	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-10

Lab Sample ID: 180-128480-10

Date Collected: 10/12/21 12:57

Matrix: Water

Date Received: 10/13/21 15:30

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			750.33 mL	1.0 g	533067	10/21/21 13:40	BMP	TAL SL
Total/NA	Analysis	9315		1			536236	11/12/21 10:25	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.33 mL	1.0 g	533072	10/21/21 14:57	BMP	TAL SL
Total/NA	Analysis	9320		1			535808	11/10/21 12:27	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			537041	11/16/21 21:30	MLK	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-2
SDG: Ash Pond

Client Sample ID: DUP-02

Lab Sample ID: 180-128480-11

Date Collected: 10/12/21 13:05

Matrix: Water

Date Received: 10/13/21 15:30

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			750.56 mL	1.0 g	533067	10/21/21 13:40	BMP	TAL SL
Total/NA	Analysis	9315		1			536352	11/12/21 10:26	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			750.56 mL	1.0 g	533072	10/21/21 14:57	BMP	TAL SL
Total/NA	Analysis	9320		1	1.0 mL	1.0 mL	535808	11/10/21 12:27	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			537041	11/16/21 21:30	MLK	TAL SL
Instrument ID: NOEQUIP										

Laboratory References:

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

Analyst References:

Lab: TAL SL

Batch Type: Prep

BMP = Bailey Pinette

Batch Type: Analysis

FLC = Fernando Cruz

MLK = Micha Korrinhizer

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-2
 SDG: Ash Pond

Client Sample ID: APMW-11
Date Collected: 10/11/21 09:58
Date Received: 10/13/21 15:30

Lab Sample ID: 180-128480-1
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.169	U	0.164	0.164	1.00	0.259	pCi/L	10/21/21 13:40	11/12/21 10:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		40 - 110					10/21/21 13:40	11/12/21 10:23	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.476		0.282	0.286	1.00	0.430	pCi/L	10/21/21 14:57	11/10/21 12:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		40 - 110					10/21/21 14:57	11/10/21 12:23	1
Y Carrier	83.7		40 - 110					10/21/21 14:57	11/10/21 12:23	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.645		0.326	0.330	5.00	0.430	pCi/L		11/16/21 21:30	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-2
SDG: Ash Pond

Client Sample ID: DUP-01
Date Collected: 10/11/21 09:58
Date Received: 10/13/21 15:30

Lab Sample ID: 180-128480-2
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.188	U	0.187	0.188	1.00	0.294	pCi/L	10/21/21 13:40	11/12/21 10:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.5		40 - 110					10/21/21 13:40	11/12/21 10:23	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.439	U	0.374	0.376	1.00	0.596	pCi/L	10/21/21 14:57	11/10/21 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.5		40 - 110					10/21/21 14:57	11/10/21 12:24	1
Y Carrier	83.7		40 - 110					10/21/21 14:57	11/10/21 12:24	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.627		0.418	0.420	5.00	0.596	pCi/L		11/16/21 21:30	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-2
 SDG: Ash Pond

Client Sample ID: APMW-12

Lab Sample ID: 180-128480-3

Date Collected: 10/11/21 10:52

Matrix: Water

Date Received: 10/13/21 15:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.206	U	0.193	0.194	1.00	0.300	pCi/L	10/21/21 13:40	11/12/21 10:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		40 - 110					10/21/21 13:40	11/12/21 10:24	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.789		0.380	0.387	1.00	0.545	pCi/L	10/21/21 14:57	11/10/21 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		40 - 110					10/21/21 14:57	11/10/21 12:24	1
Y Carrier	76.6		40 - 110					10/21/21 14:57	11/10/21 12:24	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.994		0.426	0.433	5.00	0.545	pCi/L		11/16/21 21:30	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-2
SDG: Ash Pond

Client Sample ID: EB-01

Lab Sample ID: 180-128480-4

Date Collected: 10/11/21 11:06

Matrix: Water

Date Received: 10/13/21 15:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0474	U	0.102	0.102	1.00	0.225	pCi/L	10/21/21 13:40	11/12/21 10:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		40 - 110					10/21/21 13:40	11/12/21 10:24	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.736		0.310	0.317	1.00	0.442	pCi/L	10/21/21 14:57	11/10/21 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		40 - 110					10/21/21 14:57	11/10/21 12:24	1
Y Carrier	83.4		40 - 110					10/21/21 14:57	11/10/21 12:24	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.688		0.326	0.333	5.00	0.442	pCi/L		11/16/21 21:30	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-2
 SDG: Ash Pond

Client Sample ID: FB-01
Date Collected: 10/11/21 11:10
Date Received: 10/13/21 15:30

Lab Sample ID: 180-128480-5
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00711	U	0.133	0.133	1.00	0.265	pCi/L	10/21/21 13:40	11/12/21 10:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					10/21/21 13:40	11/12/21 10:24	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.798		0.297	0.306	1.00	0.402	pCi/L	10/21/21 14:57	11/10/21 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					10/21/21 14:57	11/10/21 12:24	1
Y Carrier	80.7		40 - 110					10/21/21 14:57	11/10/21 12:24	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.791		0.325	0.334	5.00	0.402	pCi/L		11/16/21 21:30	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-2
 SDG: Ash Pond

Client Sample ID: APMW-3D

Lab Sample ID: 180-128480-6

Date Collected: 10/11/21 12:20

Matrix: Water

Date Received: 10/13/21 15:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.453		0.248	0.251	1.00	0.329	pCi/L	10/21/21 13:40	11/12/21 10:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		40 - 110					10/21/21 13:40	11/12/21 10:24	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.14		0.464	0.476	1.00	0.669	pCi/L	10/21/21 14:57	11/10/21 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		40 - 110					10/21/21 14:57	11/10/21 12:24	1
Y Carrier	84.5		40 - 110					10/21/21 14:57	11/10/21 12:24	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.60		0.526	0.538	5.00	0.669	pCi/L		11/16/21 21:30	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-2
 SDG: Ash Pond

Client Sample ID: APMW-9

Lab Sample ID: 180-128480-7

Date Collected: 10/12/21 07:54

Matrix: Water

Date Received: 10/13/21 15:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	2.39		0.442	0.492	1.00	0.293	pCi/L	10/21/21 13:40	11/12/21 10:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					10/21/21 13:40	11/12/21 10:25	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	6.53		0.716	0.935	1.00	0.545	pCi/L	10/21/21 14:57	11/10/21 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					10/21/21 14:57	11/10/21 12:24	1
Y Carrier	84.1		40 - 110					10/21/21 14:57	11/10/21 12:24	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	8.92		0.841	1.06	5.00	0.545	pCi/L		11/16/21 21:30	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-2
 SDG: Ash Pond

Client Sample ID: APMW-8D

Lab Sample ID: 180-128480-8

Date Collected: 10/12/21 08:47

Matrix: Water

Date Received: 10/13/21 15:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.101	U	0.169	0.169	1.00	0.294	pCi/L	10/21/21 13:40	11/12/21 10:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.5		40 - 110					10/21/21 13:40	11/12/21 10:25	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.971		0.474	0.482	1.00	0.712	pCi/L	10/21/21 14:57	11/10/21 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.5		40 - 110					10/21/21 14:57	11/10/21 12:24	1
Y Carrier	81.5		40 - 110					10/21/21 14:57	11/10/21 12:24	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.07		0.503	0.511	5.00	0.712	pCi/L		11/16/21 21:30	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-2
 SDG: Ash Pond

Client Sample ID: APMW-10D

Lab Sample ID: 180-128480-9

Date Collected: 10/12/21 11:09

Matrix: Water

Date Received: 10/13/21 15:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.230	U	0.226	0.227	1.00	0.357	pCi/L	10/21/21 13:40	11/12/21 10:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		40 - 110					10/21/21 13:40	11/12/21 10:25	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.539	U	0.431	0.434	1.00	0.687	pCi/L	10/21/21 14:57	11/10/21 12:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		40 - 110					10/21/21 14:57	11/10/21 12:27	1
Y Carrier	83.4		40 - 110					10/21/21 14:57	11/10/21 12:27	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.769		0.487	0.490	5.00	0.687	pCi/L		11/16/21 21:30	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-2
 SDG: Ash Pond

Client Sample ID: APMW-10

Lab Sample ID: 180-128480-10

Date Collected: 10/12/21 12:57

Matrix: Water

Date Received: 10/13/21 15:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.88		0.416	0.449	1.00	0.364	pCi/L	10/21/21 13:40	11/12/21 10:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		40 - 110					10/21/21 13:40	11/12/21 10:25	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.70		0.458	0.483	1.00	0.585	pCi/L	10/21/21 14:57	11/10/21 12:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		40 - 110					10/21/21 14:57	11/10/21 12:27	1
Y Carrier	83.0		40 - 110					10/21/21 14:57	11/10/21 12:27	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	3.57		0.619	0.659	5.00	0.585	pCi/L		11/16/21 21:30	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-2
 SDG: Ash Pond

Client Sample ID: DUP-02
Date Collected: 10/12/21 13:05
Date Received: 10/13/21 15:30

Lab Sample ID: 180-128480-11
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.64		0.376	0.404	1.00	0.334	pCi/L	10/21/21 13:40	11/12/21 10:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.0		40 - 110					10/21/21 13:40	11/12/21 10:26	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.86		0.446	0.478	1.00	0.531	pCi/L	10/21/21 14:57	11/10/21 12:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.0		40 - 110					10/21/21 14:57	11/10/21 12:27	1
Y Carrier	83.7		40 - 110					10/21/21 14:57	11/10/21 12:27	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	3.50		0.583	0.626	5.00	0.531	pCi/L		11/16/21 21:30	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-2
SDG: Ash Pond

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-533067/22-A
Matrix: Water
Analysis Batch: 536353

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 533067

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.1067	U	0.162	0.162	1.00	0.277	pCi/L	10/21/21 13:40	11/12/21 10:30	1
Carrier	MB	MB	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	98.8		40 - 110			10/21/21 13:40	11/12/21 10:30	1		

Lab Sample ID: LCS 160-533067/1-A
Matrix: Water
Analysis Batch: 536236

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 533067

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	15.1	12.96		1.54	1.00	0.331	pCi/L	86	75 - 125
Carrier	LCS	LCS	Limits			Prepared	Analyzed	Dil Fac	
	%Yield	Qualifier							
Ba Carrier	90.8		40 - 110						

Lab Sample ID: LCSD 160-533067/2-A
Matrix: Water
Analysis Batch: 536236

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 533067

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	Limit
				Uncert. (2σ+/-)							
Radium-226	15.1	13.61		1.56	1.00	0.327	pCi/L	90	75 - 125	0.21	1
Carrier	LCSD	LCSD	Limits			Prepared	Analyzed	Dil Fac			
	%Yield	Qualifier									
Ba Carrier	100		40 - 110								

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-533072/22-A
Matrix: Water
Analysis Batch: 535808

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 533072

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.1270	U	0.284	0.285	1.00	0.489	pCi/L	10/21/21 14:57	11/10/21 12:28	1
Carrier	MB	MB	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	98.8		40 - 110			10/21/21 14:57	11/10/21 12:28	1		
Y Carrier	87.5		40 - 110			10/21/21 14:57	11/10/21 12:28	1		

QC Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-2
 SDG: Ash Pond

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

Lab Sample ID: LCS 160-533072/1-A
Matrix: Water
Analysis Batch: 535807

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 533072

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
									75	125
Radium-228	12.2	12.45		1.48	1.00	0.540	pCi/L	102	75	125
LCS LCS										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	90.8		40 - 110							
Y Carrier	84.9		40 - 110							

Lab Sample ID: LCSD 160-533072/2-A
Matrix: Water
Analysis Batch: 535807

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 533072

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		RER	Limit
									75	125	0.24	1
Radium-228	12.2	11.77		1.38	1.00	0.444	pCi/L	96	75	125	0.24	1
LCSD LCSD												
Carrier	%Yield	Qualifier	Limits									
Ba Carrier	100		40 - 110									
Y Carrier	84.5		40 - 110									

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128480-2
SDG: Ash Pond

Rad

Prep Batch: 533067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128480-1	APMW-11	Total/NA	Water	PrecSep-21	
180-128480-2	DUP-01	Total/NA	Water	PrecSep-21	
180-128480-3	APMW-12	Total/NA	Water	PrecSep-21	
180-128480-4	EB-01	Total/NA	Water	PrecSep-21	
180-128480-5	FB-01	Total/NA	Water	PrecSep-21	
180-128480-6	APMW-3D	Total/NA	Water	PrecSep-21	
180-128480-7	APMW-9	Total/NA	Water	PrecSep-21	
180-128480-8	APMW-8D	Total/NA	Water	PrecSep-21	
180-128480-9	APMW-10D	Total/NA	Water	PrecSep-21	
180-128480-10	APMW-10	Total/NA	Water	PrecSep-21	
180-128480-11	DUP-02	Total/NA	Water	PrecSep-21	
MB 160-533067/22-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-533067/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-533067/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 533072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128480-1	APMW-11	Total/NA	Water	PrecSep_0	
180-128480-2	DUP-01	Total/NA	Water	PrecSep_0	
180-128480-3	APMW-12	Total/NA	Water	PrecSep_0	
180-128480-4	EB-01	Total/NA	Water	PrecSep_0	
180-128480-5	FB-01	Total/NA	Water	PrecSep_0	
180-128480-6	APMW-3D	Total/NA	Water	PrecSep_0	
180-128480-7	APMW-9	Total/NA	Water	PrecSep_0	
180-128480-8	APMW-8D	Total/NA	Water	PrecSep_0	
180-128480-9	APMW-10D	Total/NA	Water	PrecSep_0	
180-128480-10	APMW-10	Total/NA	Water	PrecSep_0	
180-128480-11	DUP-02	Total/NA	Water	PrecSep_0	
MB 160-533072/22-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-533072/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-533072/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

244-ATLANTA Eurofins Environment Testing America

Client Information		Sampler: <u>Brent Surles</u>		Lab PM: Brown, Shali		Carrier Tracking No(s):		COC No:											
Client Contact: SCS Contacts		Phone: <u>850 380 3458</u>		E-Mail: shali.brown@eurofinset.com				Page:											
Company: SCS				Analysis Requested						Job #:									
Address: 3535 Colonnade Pkwy Bin S 530 EC		Due Date Requested:		<table border="1"> <tr><td>Field Filtered Sample (Yes or No)</td></tr> <tr><td>Perform MS/MSD (Yes or No)</td></tr> <tr><td>2540C Total Dissolved Solids</td></tr> <tr><td>300_28Day Chloride Fluoride Sulfate</td></tr> <tr><td>6020B17470 Custom 14 (A pphll/AppV) + Mercury</td></tr> <tr><td>9315_Ra226 Radium 226</td></tr> <tr><td>9320_Ra228 Radium 228</td></tr> <tr><td>Combined RAD</td></tr> </table>						Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C Total Dissolved Solids	300_28Day Chloride Fluoride Sulfate	6020B17470 Custom 14 (A pphll/AppV) + Mercury	9315_Ra226 Radium 226	9320_Ra228 Radium 228	Combined RAD	Preservation Codes:	
Field Filtered Sample (Yes or No)																			
Perform MS/MSD (Yes or No)																			
2540C Total Dissolved Solids																			
300_28Day Chloride Fluoride Sulfate																			
6020B17470 Custom 14 (A pphll/AppV) + Mercury																			
9315_Ra226 Radium 226																			
9320_Ra228 Radium 228																			
Combined RAD																			
City: Birmingham		TAT Requested (days):		A - HCL		M - Hexane													
State, Zip: AL 35243				B - NaOH		N - None													
Phone: 205-992-6283		PO #: SCS10382606		C - Zn Acetate		O - AsNaO2													
Email: SCS Contacts		WO #:		D - Nitric Acid		P - Na2O4S													
Project Name: Plant Watson		Project #: 18020186		E - NaHSO4		Q - Na2SO3													
Site: Ash Pond		SSOW#:		F - MeOH		R - Na2S2O3													
				G - Amchlor		S - H2SO4													
				H - Ascorbic Acid		T - TSP Dodecahydrate													
				I - Ice		U - Acetone													
				J - DI Water		V - MCAA													
				K - EDTA		W - pH 4-5													
				L - EDA		Z - other (specify)													
				Other:															
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Total Number of containers		Special Instructions/Note:							
						Preservation Code:													
APMW-11		10/11/21		0958		G		W											
Dup-01		10/11/21		0958															
APMW-12		10/11/21		1052															
EB-01		10/11/21		1106															
FB-01		10/11/21		1110															
APMW-3d		10/11/21		1220															
APMW-9		10/12/21		0754															
APMW-8d		10/12/21		0847															
APMW-10d		10/12/21		1109															
APMW-10		10/12/21		1257															
Dup-02		10/12/21		1305		G		W											
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)													
<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						<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)						Special Instructions/QC Requirements:													
Empty Kit Relinquished by:			Date:			Time:			Method of Shipment:										
Relinquished by: <u>[Signature]</u>			Date/Time: <u>10/12/21 1400</u>			Company: <u>RDT</u>			Received by: <u>D. Watson</u>										
Relinquished by:			Date/Time:			Company:			Date/Time: <u>10-13-21</u>										
Relinquished by:			Date/Time:			Company:			Date/Time: <u>15:30</u>										
Relinquished by:			Date/Time:			Company:			Date/Time:										
Custody Seals Intact:		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:															
Δ Yes Δ No																			





Do Not Lift Using This Tag

ORIGIN ID: BIXA (850) 336-0192

RDH ENVIRONMENTAL
5720 DOVE DR

PACE, FL 32571
UNITED STATES US

SHIP DATE: 12OCT21
ACTWTG: 72.95 LB
CAD: 6993800/SSFE2220
DIMS: 23x12x13 IN

BILL THIRD PARTY

TO TEST AMERICA
TEST AMERICA
301 ALPHA DR

PITTSBURGH PA 15238

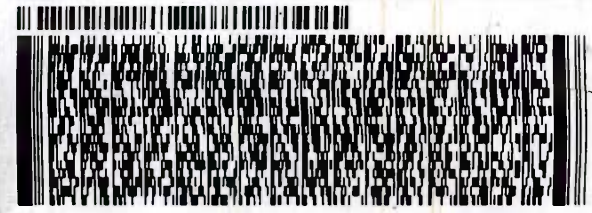
(412) 863-8222
INU:
PO:

REF:

DEPT:

Handwritten: 0551
Handwritten: 2nd

158297-435-HH08 EXP 08/22



FedEx
Express



AN 10607012021Z

1 of 2

TRK# 2848 0659 6226
0201

MASTER

WED - 13 OCT 4:30P
STANDARD OVERNIGHT

UI AGCA

15238
PA-US PIT

Uncorrected temp	3.3 °C
Thermometer ID	8
CF <u>0</u>	Initials <u>veg</u>
PT-WI-SR-001 effective 11/8/18	

Do Not Lift Using This Label

ORIGIN ID: BIXA (850) 938-0182

RDH ENVIORMENTAL
5720 DOVE DR

PACE, FL 32571
UNITED STATES US

SHIP DATE: 10/13/21
ACTING TO: 10/13/21
POST: 858 1000 10/13/21
CMB: 2312113 11

BILL THIRD PARTY

TO TEST AMERICA
TEST AMERICA
301 ALPHA DR

PITTSBURGH

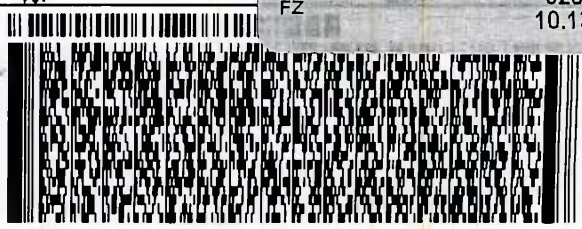
(412) 988-8222
INVT
P01

RT 98

16:30

A
6237
10.13

Handwritten: 250
250



FedEx
Express



J21202107090114

2 of 2

MPS# 2848 0659 6237
0263

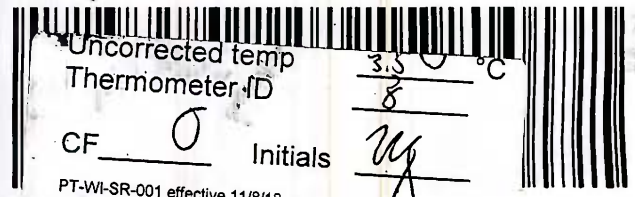
Metr# 2848 0659 8226

0201

WED - 13 OCT 4:30P
STANDARD OVERNIGHT

UI AGCA

15238
PA-US PIT



Uncorrected temp
Thermometer ID

3.3 °C

CF Initials

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

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

Chain of Custody Record



Environment Testing
 America



Client Information (Sub Contract Lab)		Lab PM Brown, Shali	Carrier Tracking Note(s)	COC No 180-446996.1
Client Contact Shipping/Receiving		E-Mail Shali.Brown@Eurofinset.com	State of Origin Georgia	Page Page 1 of 2
Company TestAmerica Laboratories, Inc.		Accreditations Required (See note)		Job # 180-128480-2
Address 13715 Rider Trail North, Earth City State, Zip MO, 63045 Phone 314-298-8566(Tel) 314-298-8757(Fax) Email:		Analysis Requested		
Due Date Requested: 11/14/2021		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify) Other:		
TAT Requested (days):		Total Number of Containers		
PO #	Project # 18020186	920 Ra228/PreSep_0 Radium 228	9315 Ra228/PreSep_21 Radium 226	Ra228Ra228 GPC/ Combined Radium-226 and Radium-228
WO #	SSOW#	Perform MS/MSD (Yes or No)	Field Filtered Sample (Yes or No)	Special Instructions/Note:
Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, A=acid, O=oil, B=BT, H=H, A=Air)	
10/11/21	09:58 Eastern	Water	Water	2
10/11/21	09:58 Eastern	Water	Water	2
10/11/21	10:52 Eastern	Water	Water	2
10/11/21	11:06 Eastern	Water	Water	2
10/11/21	11:10 Eastern	Water	Water	2
10/11/21	12:20 Eastern	Water	Water	2
10/12/21	07:54 Eastern	Water	Water	2
10/12/21	08:47 Eastern	Water	Water	2
10/12/21	11:09 Eastern	Water	Water	2

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: *AW* Date: 10-18-21 17:00
 Relinquished by: *AW* Date: _____
 Relinquished by: *AW* Date: _____
 Custody Seals Intact: Yes 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)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements: _____

Received by: *AW* Date: 10-18-21 17:00 Company: *AW*
 Received by: *AW* Date: _____ Company: _____
 Received by: *AW* Date: _____ Company: _____



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

Chain of Custody Record



Environment Testing
 America

Client Information (Sub Contract Lab) Client Contact: Brown, Shali Shipping/Receiving: Shali.Brown@Eurofinset.com Company: TestAmerica Laboratories, Inc. Address: 13715 Rider Trail North, Earth City, MO, 63045 Phone: 314-298-8566(Tel) 314-298-8757(Fax) Email: Project Name: Plant Watson Ash Pond Site:		Lab PM: Brown, Shali E-Mail: Shali.Brown@Eurofinset.com Accreditations Required (See note)		Carrier Tracking No(s): State of Origin: Georgia Page 2 of 2 Job # 180-128480-2 Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Due Date Requested: 11/14/2021 TAT Requested (days): PO # WO # Project # 18020186 SSOV#		Analysis Requested			
Sample Identification - Client ID (Lab ID) APMW-10 (180-128480-10) DUP-02 (180-128480-11)		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>		Perform M/MSD (Yes or No) <input checked="" type="checkbox"/>	
Sample Date 10/12/21 10/12/21		Sample Time 12:57 Eastern 13:05 Eastern		Sample Preservation Code: Water Water	
Sample Type (C=Comp, G=grab) C G		Matrix (W=water, S=solid, O=on-site) W S		Total Number of containers 2 2	
Special Instructions/Note:		9320 Ra228/PreSep, 0 Radium 228 9315 Ra226/PreSep, 21 Radium 226 Ra226Ra228 GFPC/ Combined Radium 226 and			
Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.					
Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Empty Kit Relinquished by: MW Relinquished by: FEDEX Relinquished by: FEDEX Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks:					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab Special Instructions/QC Requirements:		Months:			
Primary Deliverable Rank: 2		Date: 10-18-21 17:00 Date/Time: 10-18-21 17:00 Date/Time:			
Relinquished by: MW Relinquished by: FEDEX Relinquished by: FEDEX		Received by: [Signature] Date/Time: OCT 19 2021 09:15 Date/Time:			
Company: TestAmerica		Company: [Signature]			



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-128480-2

SDG Number: Ash Pond

Login Number: 128480

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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 <math><6\text{mm}</math> (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: 180-128480-2

SDG Number: Ash Pond

Login Number: 128480

List Number: 2

Creator: Johnson, Autumn R

List Source: Eurofins TestAmerica, St. Louis

List Creation: 10/19/21 12:46 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-128482-1

Client Project/Site: Plant Watson Ash Pond Surfacewater

For:

Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Robert Singleton



Authorized for release by:
10/29/2021 9:49:41 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



Table of Contents

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Case Narrative

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Job ID: 180-128482-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-128482-1

Comments

No additional comments.

Receipt

The samples were received on 10/14/2021 9:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 10 coolers at receipt time were 2.3° C, 2.5° C, 2.6° C, 2.6° C, 2.7° C, 2.7° C, 3.2° C, 3.3° C, 4.1° C and 4.2° C.

Receipt Exceptions

One container for the following sample was received leaking, with a pinhole in the bottom of the container: SW-2-1' (180-128482-9). Half of the contents were lost in transit. There is sufficient sample remaining for the requested analyses.

GC Semi VOA

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with analytical batch 180-375373 were low outside control limits for chloride: (180-128482-C-29 MS) and (180-128482-C-29 MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 300.0: The matrix spike (MS) recoveries for the following sample associated with analytical batch 180-375373 were low outside control limits for chloride: (180-128482-C-39 MS). The associated laboratory control sample (LCS) recovery met acceptance criteria.

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

Metals

Methods 6020, 6020A, 6020B: The continuing calibration verification (CCV) associated with batch 180-376929 recovered above the upper control limit for boron. The samples associated with this CCV were less than the RL/batch QC for the affected analytes; therefore, the data have been reported. The associated samples are impacted: SW-15-1.5 FF (180-128482-38), SW-16-1.5 (180-128482-39), SW-16-1.5 FF (180-128482-40), (CCV 180-376929/132) and (LCS 180-376461/2-A).

No additional analytical or quality issues were noted, other than those described above or 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 Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
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.

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 Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Laboratory: Eurofins TestAmerica, 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	06-27-21 *
California	State	2891	04-30-22
Connecticut	State	PH-0688	09-30-22
Florida	NELAP	E871008	06-30-22
Georgia	State	PA 02-00416	04-30-22
Illinois	NELAP	004375	06-30-22
Kansas	NELAP	E-10350	01-31-22
Kentucky (UST)	State	162013	04-30-22
Kentucky (WW)	State	KY98043	12-31-21
Louisiana	NELAP	04041	06-30-22
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-21
Nevada	State	PA00164	08-31-22
New Hampshire	NELAP	2030	04-05-22
New Jersey	NELAP	PA005	06-30-22
New York	NELAP	11182	04-01-22
North Carolina (WW/SW)	State	434	12-31-21
North Dakota	State	R-227	04-30-22
Oregon	NELAP	PA-2151	02-06-22
Pennsylvania	NELAP	02-00416	04-30-22
Rhode Island	State	LAO00362	12-31-21
South Carolina	State	89014	04-30-22
Texas	NELAP	T104704528	03-31-22
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-22
Virginia	NELAP	10043	09-15-22
West Virginia DEP	State	142	01-31-22
Wisconsin	State	998027800	08-31-22

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



Sample Summary

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-128482-1	SW-1-1'	Water	10/13/21 15:20	10/14/21 09:15
180-128482-2	SW-1-1' FF	Water	10/13/21 15:30	10/14/21 09:15
180-128482-3	SW-1-7'	Water	10/13/21 15:40	10/14/21 09:15
180-128482-4	SW-1-7' FF	Water	10/13/21 15:50	10/14/21 09:15
180-128482-5	SW-3-1'	Water	10/13/21 07:46	10/14/21 09:15
180-128482-6	SW-3-1' FF	Water	10/13/21 07:56	10/14/21 09:15
180-128482-7	SW-3-4'	Water	10/13/21 08:24	10/14/21 09:15
180-128482-8	SW-3-4' FF	Water	10/13/21 08:34	10/14/21 09:15
180-128482-9	SW-2-1'	Water	10/13/21 16:10	10/14/21 09:15
180-128482-10	SW-2-1' FF	Water	10/13/21 16:20	10/14/21 09:15
180-128482-11	SW-2-7'	Water	10/13/21 16:30	10/14/21 09:15
180-128482-12	SW-2-7' FF	Water	10/13/21 16:40	10/14/21 09:15
180-128482-13	SW-4-1.5	Water	10/13/21 08:20	10/14/21 09:15
180-128482-14	SW-4-1.5 FF	Water	10/13/21 08:30	10/14/21 09:15
180-128482-15	SW-5-1	Water	10/13/21 11:00	10/14/21 09:15
180-128482-16	SW-5-1 FF	Water	10/13/21 11:10	10/14/21 09:15
180-128482-17	SW-5-13	Water	10/13/21 11:20	10/14/21 09:15
180-128482-18	SW-5-13 FF	Water	10/13/21 11:30	10/14/21 09:15
180-128482-19	SW-6-1	Water	10/13/21 09:25	10/14/21 09:15
180-128482-20	SW-6-1 FF	Water	10/13/21 09:30	10/14/21 09:15
180-128482-21	SW-6-9.5	Water	10/13/21 09:50	10/14/21 09:15
180-128482-22	SW-6-9.5 FF	Water	10/13/21 10:00	10/14/21 09:15
180-128482-23	SW-9-1	Water	10/13/21 11:50	10/14/21 09:15
180-128482-24	SW-9-1 FF	Water	10/13/21 12:00	10/14/21 09:15
180-128482-25	SW-9-4	Water	10/13/21 12:10	10/14/21 09:15
180-128482-26	SW-9-4 FF	Water	10/13/21 12:20	10/14/21 09:15
180-128482-27	SW-10-2	Water	10/13/21 12:40	10/14/21 09:15
180-128482-28	SW-10-2 FF	Water	10/13/21 12:50	10/14/21 09:15
180-128482-29	SW-11-2	Water	10/13/21 13:10	10/14/21 09:15
180-128482-30	SW-11-2 FF	Water	10/13/21 13:20	10/14/21 09:15
180-128482-31	SW-12-2	Water	10/13/21 13:40	10/14/21 09:15
180-128482-32	SW-12-2 FF	Water	10/13/21 13:50	10/14/21 09:15
180-128482-33	SW-13-1	Water	10/13/21 12:26	10/14/21 09:15
180-128482-34	SW-13-1 FF	Water	10/13/21 12:36	10/14/21 09:15
180-128482-35	SW-14-1.5	Water	10/13/21 09:59	10/14/21 09:15
180-128482-36	SW-14-1.5 FF	Water	10/13/21 10:09	10/14/21 09:15
180-128482-37	SW-15-1.5	Water	10/13/21 10:42	10/14/21 09:15
180-128482-38	SW-15-1.5 FF	Water	10/13/21 10:52	10/14/21 09:15
180-128482-39	SW-16-1.5	Water	10/13/21 11:24	10/14/21 09:15
180-128482-40	SW-16-1.5 FF	Water	10/13/21 11:34	10/14/21 09:15
180-128482-41	SW-17-1	Water	10/13/21 09:16	10/14/21 09:15
180-128482-42	SW-17-1 FF	Water	10/13/21 09:26	10/14/21 09:15
180-128482-43	EB-01	Water	10/13/21 14:31	10/14/21 09:15
180-128482-44	EB-02	Water	10/13/21 15:57	10/14/21 09:15
180-128482-45	DUP-01	Water	10/13/21 13:45	10/14/21 09:15
180-128482-46	DUP-01 FF	Water	10/13/21 13:55	10/14/21 09:15
180-128482-47	DUP-02	Water	10/13/21 14:20	10/14/21 09:15
180-128482-48	DUP-02 FF	Water	10/13/21 14:30	10/14/21 09:15



Method Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PIT
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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:

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

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: SW-1-1'
Date Collected: 10/13/21 15:20
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-1
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	300.0		1			375369	10/15/21 14:32	J1T	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	376463	10/27/21 09:00	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376929	10/28/21 19:34	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	375784	10/19/21 09:55	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			376147	10/21/21 11:33	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	375448	10/15/21 12:57	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-1-1' FF
Date Collected: 10/13/21 15:30
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			375369	10/15/21 15:26	J1T	TAL PIT
Instrument ID: INTEGRION										
Dissolved	Prep	3005A			50 mL	50 mL	376463	10/27/21 09:00	KFS	TAL PIT
Dissolved	Analysis	EPA 6020B		1			376929	10/28/21 19:38	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	7470A			25 mL	25 mL	375784	10/19/21 09:55	MM1	TAL PIT
Dissolved	Analysis	EPA 7470A		1			376147	10/21/21 11:34	RJR	TAL PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	375448	10/15/21 12:57	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-1-7'
Date Collected: 10/13/21 15:40
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-3
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	300.0		1			375369	10/15/21 17:31	J1T	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	376463	10/27/21 09:00	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376929	10/28/21 19:42	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	375784	10/19/21 09:55	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			376147	10/21/21 11:35	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	375676	10/18/21 13:56	KMM	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: SW-1-7' FF

Lab Sample ID: 180-128482-4

Date Collected: 10/13/21 15:50

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			375369	10/15/21 17:49	J1T	TAL PIT
Instrument ID: INTEGRION										
Dissolved	Prep	3005A			50 mL	50 mL	376463	10/27/21 09:00	KFS	TAL PIT
Dissolved	Analysis	EPA 6020B		1			376929	10/28/21 19:45	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	7470A			25 mL	25 mL	375784	10/19/21 09:55	MM1	TAL PIT
Dissolved	Analysis	EPA 7470A		1			376147	10/21/21 11:36	RJR	TAL PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	375676	10/18/21 13:56	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-3-1'

Lab Sample ID: 180-128482-5

Date Collected: 10/13/21 07:46

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			375369	10/15/21 18:06	J1T	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	376463	10/27/21 09:00	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376929	10/28/21 19:49	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	375784	10/19/21 09:55	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			376147	10/21/21 11:40	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	375676	10/18/21 13:56	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-3-1' FF

Lab Sample ID: 180-128482-6

Date Collected: 10/13/21 07:56

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			375369	10/15/21 18:24	J1T	TAL PIT
Instrument ID: INTEGRION										
Dissolved	Prep	3005A			50 mL	50 mL	376463	10/27/21 09:00	KFS	TAL PIT
Dissolved	Analysis	EPA 6020B		1			376929	10/28/21 19:53	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	7470A			25 mL	25 mL	375784	10/19/21 09:55	MM1	TAL PIT
Dissolved	Analysis	EPA 7470A		1			376147	10/21/21 11:41	RJR	TAL PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	375676	10/18/21 13:56	KMM	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: SW-3-4'

Lab Sample ID: 180-128482-7

Date Collected: 10/13/21 08:24

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			375369	10/15/21 18:42	J1T	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	376463	10/27/21 09:00	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376929	10/28/21 19:56	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	375784	10/19/21 09:55	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			376147	10/21/21 11:41	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	375676	10/18/21 13:56	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-3-4' FF

Lab Sample ID: 180-128482-8

Date Collected: 10/13/21 08:34

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			375369	10/15/21 19:00	J1T	TAL PIT
Instrument ID: INTEGRION										
Dissolved	Prep	3005A			50 mL	50 mL	376463	10/27/21 09:00	KFS	TAL PIT
Dissolved	Analysis	EPA 6020B		1			376929	10/28/21 20:00	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	7470A			25 mL	25 mL	375784	10/19/21 09:55	MM1	TAL PIT
Dissolved	Analysis	EPA 7470A		1			376147	10/21/21 11:42	RJR	TAL PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	375676	10/18/21 13:56	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-2-1'

Lab Sample ID: 180-128482-9

Date Collected: 10/13/21 16:10

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			375369	10/15/21 21:23	J1T	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	376463	10/27/21 09:00	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376929	10/28/21 20:04	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	375784	10/19/21 09:55	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			376147	10/21/21 11:43	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	375676	10/18/21 13:56	KMM	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: SW-2-1' FF

Lab Sample ID: 180-128482-10

Date Collected: 10/13/21 16:20

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			375369	10/15/21 21:41	J1T	TAL PIT
Instrument ID: INTEGRION										
Dissolved	Prep	3005A			50 mL	50 mL	376463	10/27/21 09:00	KFS	TAL PIT
Dissolved	Analysis	EPA 6020B		1			376929	10/28/21 20:14	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	7470A			25 mL	25 mL	375784	10/19/21 09:55	MM1	TAL PIT
Dissolved	Analysis	EPA 7470A		1			376147	10/21/21 11:44	RJR	TAL PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	375676	10/18/21 13:56	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-2-7'

Lab Sample ID: 180-128482-11

Date Collected: 10/13/21 16:30

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			375369	10/15/21 21:59	J1T	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	376463	10/27/21 09:00	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376929	10/28/21 20:18	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	375784	10/19/21 09:55	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			376147	10/21/21 11:47	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	375676	10/18/21 13:56	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-2-7' FF

Lab Sample ID: 180-128482-12

Date Collected: 10/13/21 16:40

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			375369	10/15/21 22:17	J1T	TAL PIT
Instrument ID: INTEGRION										
Dissolved	Prep	3005A			50 mL	50 mL	376463	10/27/21 09:00	KFS	TAL PIT
Dissolved	Analysis	EPA 6020B		1			376929	10/28/21 20:22	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	7470A			25 mL	25 mL	375784	10/19/21 09:55	MM1	TAL PIT
Dissolved	Analysis	EPA 7470A		1			376147	10/21/21 11:48	RJR	TAL PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	375676	10/18/21 13:56	KMM	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: SW-4-1.5

Lab Sample ID: 180-128482-13

Date Collected: 10/13/21 08:20

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			375369	10/15/21 22:34	J1T	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	376463	10/27/21 09:00	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376929	10/28/21 20:25	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	375784	10/19/21 09:55	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			376147	10/21/21 11:52	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	375676	10/18/21 13:56	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-4-1.5 FF

Lab Sample ID: 180-128482-14

Date Collected: 10/13/21 08:30

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			375369	10/16/21 00:22	J1T	TAL PIT
Instrument ID: INTEGRION										
Dissolved	Prep	3005A			50 mL	50 mL	376463	10/27/21 09:00	KFS	TAL PIT
Dissolved	Analysis	EPA 6020B		1			376929	10/28/21 20:29	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	7470A			25 mL	25 mL	375784	10/19/21 09:55	MM1	TAL PIT
Dissolved	Analysis	EPA 7470A		1			376147	10/21/21 11:53	RJR	TAL PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	375676	10/18/21 13:56	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-5-1

Lab Sample ID: 180-128482-15

Date Collected: 10/13/21 11:00

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			375369	10/16/21 00:04	J1T	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	376463	10/27/21 09:00	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376929	10/28/21 20:33	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	375784	10/19/21 09:55	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			376147	10/21/21 11:54	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	375676	10/18/21 13:56	KMM	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: SW-5-1 FF

Lab Sample ID: 180-128482-16

Date Collected: 10/13/21 11:10

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			375369	10/15/21 20:29	J1T	TAL PIT
Instrument ID: INTEGRION										
Dissolved	Prep	3005A			50 mL	50 mL	376463	10/27/21 09:00	KFS	TAL PIT
Dissolved	Analysis	EPA 6020B		1			376929	10/28/21 20:36	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	7470A			25 mL	25 mL	375784	10/19/21 09:55	MM1	TAL PIT
Dissolved	Analysis	EPA 7470A		1			376147	10/21/21 11:55	RJR	TAL PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	375676	10/18/21 13:56	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-5-13

Lab Sample ID: 180-128482-17

Date Collected: 10/13/21 11:20

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			375369	10/15/21 23:46	J1T	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	376463	10/27/21 09:00	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376929	10/28/21 20:40	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	375784	10/19/21 09:55	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			376147	10/21/21 11:56	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	375676	10/18/21 13:56	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-5-13 FF

Lab Sample ID: 180-128482-18

Date Collected: 10/13/21 11:30

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			375369	10/15/21 23:28	J1T	TAL PIT
Instrument ID: INTEGRION										
Dissolved	Prep	3005A			50 mL	50 mL	376462	10/27/21 09:00	RGM	TAL PIT
Dissolved	Analysis	EPA 6020B		1			376929	10/28/21 17:06	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	7470A			25 mL	25 mL	375784	10/19/21 09:55	MM1	TAL PIT
Dissolved	Analysis	EPA 7470A		1			376147	10/21/21 11:57	RJR	TAL PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	375676	10/18/21 13:56	KMM	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: SW-6-1
Date Collected: 10/13/21 09:25
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-19
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	300.0		1			375369	10/16/21 01:33	J1T	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	376462	10/27/21 09:00	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376929	10/28/21 17:24	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	375784	10/19/21 09:55	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			376147	10/21/21 11:58	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	375676	10/18/21 13:56	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-6-1 FF
Date Collected: 10/13/21 09:30
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			375369	10/16/21 00:39	J1T	TAL PIT
Instrument ID: INTEGRION										
Dissolved	Prep	3005A			50 mL	50 mL	376462	10/27/21 09:00	RGM	TAL PIT
Dissolved	Analysis	EPA 6020B		1			376929	10/28/21 17:27	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	7470A			25 mL	25 mL	375890	10/20/21 06:22	RJR	TAL PIT
Dissolved	Analysis	EPA 7470A		1			376147	10/21/21 12:33	RJR	TAL PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	375688	10/18/21 14:56	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-6-9.5
Date Collected: 10/13/21 09:50
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-21
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	300.0		1			375369	10/16/21 01:51	J1T	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	376462	10/27/21 09:00	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376929	10/28/21 17:31	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	375890	10/20/21 06:22	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			376147	10/21/21 12:36	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	375688	10/18/21 14:56	KMM	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: SW-6-9.5 FF

Lab Sample ID: 180-128482-22

Date Collected: 10/13/21 10:00

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			375369	10/16/21 02:09	J1T	TAL PIT
Instrument ID: INTEGRION										
Dissolved	Prep	3005A			50 mL	50 mL	376462	10/27/21 09:00	RGM	TAL PIT
Dissolved	Analysis	EPA 6020B		1			376929	10/28/21 17:42	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	7470A			25 mL	25 mL	375890	10/20/21 06:22	RJR	TAL PIT
Dissolved	Analysis	EPA 7470A		1			376147	10/21/21 12:37	RJR	TAL PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	375688	10/18/21 14:56	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-9-1

Lab Sample ID: 180-128482-23

Date Collected: 10/13/21 11:50

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			375369	10/16/21 03:02	J1T	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	376462	10/27/21 09:00	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376929	10/28/21 17:46	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	375890	10/20/21 06:22	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			376147	10/21/21 12:42	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	375688	10/18/21 14:56	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-9-1 FF

Lab Sample ID: 180-128482-24

Date Collected: 10/13/21 12:00

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			375369	10/16/21 03:20	J1T	TAL PIT
Instrument ID: INTEGRION										
Dissolved	Prep	3005A			50 mL	50 mL	376462	10/27/21 09:00	RGM	TAL PIT
Dissolved	Analysis	EPA 6020B		1			376929	10/28/21 17:49	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	7470A			25 mL	25 mL	375890	10/20/21 06:22	RJR	TAL PIT
Dissolved	Analysis	EPA 7470A		1			376147	10/21/21 12:42	RJR	TAL PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	375688	10/18/21 14:56	KMM	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: SW-9-4
Date Collected: 10/13/21 12:10
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-25
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	300.0		1			375369	10/16/21 03:38	J1T	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	376462	10/27/21 09:00	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376929	10/28/21 17:53	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	375890	10/20/21 06:22	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			376147	10/21/21 12:43	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	375688	10/18/21 14:56	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-9-4 FF
Date Collected: 10/13/21 12:20
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-26
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			375369	10/16/21 03:56	J1T	TAL PIT
Instrument ID: INTEGRION										
Dissolved	Prep	3005A			50 mL	50 mL	376462	10/27/21 09:00	RGM	TAL PIT
Dissolved	Analysis	EPA 6020B		1			376929	10/28/21 17:57	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	7470A			25 mL	25 mL	375890	10/20/21 06:22	RJR	TAL PIT
Dissolved	Analysis	EPA 7470A		1			376147	10/21/21 12:44	RJR	TAL PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	375688	10/18/21 14:56	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-10-2
Date Collected: 10/13/21 12:40
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-27
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	300.0		1			375369	10/16/21 04:14	J1T	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	376462	10/27/21 09:00	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376929	10/28/21 18:00	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	375890	10/20/21 06:22	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			376147	10/21/21 12:45	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	375688	10/18/21 14:56	KMM	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: SW-10-2 FF

Lab Sample ID: 180-128482-28

Date Collected: 10/13/21 12:50

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: INTEGRION		1			375369	10/16/21 04:32	J1T	TAL PIT
Dissolved	Prep	3005A			50 mL	50 mL	376462	10/27/21 09:00	RGM	TAL PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			376929	10/28/21 18:04	RSK	TAL PIT
Dissolved	Prep	7470A			25 mL	25 mL	375890	10/20/21 06:22	RJR	TAL PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGZ		1			376147	10/21/21 12:46	RJR	TAL PIT
Dissolved	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	375688	10/18/21 14:56	KMM	TAL PIT

Client Sample ID: SW-11-2

Lab Sample ID: 180-128482-29

Date Collected: 10/13/21 13:10

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0 Instrument ID: CHICS2100B		1			375373	10/15/21 13:03	J1T	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	376462	10/27/21 09:00	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			376929	10/28/21 18:07	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	375890	10/20/21 06:22	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			376147	10/21/21 12:47	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	375688	10/18/21 14:56	KMM	TAL PIT

Client Sample ID: SW-11-2 FF

Lab Sample ID: 180-128482-30

Date Collected: 10/13/21 13:20

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			375373	10/15/21 13:56	J1T	TAL PIT
Dissolved	Prep	3005A			50 mL	50 mL	376462	10/27/21 09:00	RGM	TAL PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			376929	10/28/21 18:11	RSK	TAL PIT
Dissolved	Prep	7470A			25 mL	25 mL	375890	10/20/21 06:22	RJR	TAL PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGZ		1			376147	10/21/21 12:48	RJR	TAL PIT
Dissolved	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	375688	10/18/21 14:56	KMM	TAL PIT

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: SW-12-2

Lab Sample ID: 180-128482-31

Date Collected: 10/13/21 13:40

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			375373	10/15/21 14:13	J1T	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	376462	10/27/21 09:00	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376929	10/28/21 18:22	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	375890	10/20/21 06:22	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			376147	10/21/21 12:49	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	375688	10/18/21 14:56	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-12-2 FF

Lab Sample ID: 180-128482-32

Date Collected: 10/13/21 13:50

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			375373	10/15/21 14:31	J1T	TAL PIT
Instrument ID: CHICS2100B										
Dissolved	Prep	3005A			50 mL	50 mL	376462	10/27/21 09:00	RGM	TAL PIT
Dissolved	Analysis	EPA 6020B		1			376929	10/28/21 18:26	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	7470A			25 mL	25 mL	375890	10/20/21 06:22	RJR	TAL PIT
Dissolved	Analysis	EPA 7470A		1			376147	10/21/21 12:50	RJR	TAL PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	375688	10/18/21 14:56	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-13-1

Lab Sample ID: 180-128482-33

Date Collected: 10/13/21 12:26

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			375373	10/15/21 14:49	J1T	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	376462	10/27/21 09:00	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376929	10/28/21 18:29	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	375890	10/20/21 06:22	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			376147	10/21/21 12:54	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	375688	10/18/21 14:56	KMM	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: SW-13-1 FF

Lab Sample ID: 180-128482-34

Date Collected: 10/13/21 12:36

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			375373	10/15/21 15:07	J1T	TAL PIT
Dissolved	Prep	3005A			50 mL	50 mL	376462	10/27/21 09:00	RGM	TAL PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			376929	10/28/21 18:33	RSK	TAL PIT
Dissolved	Prep	7470A			25 mL	25 mL	375890	10/20/21 06:22	RJR	TAL PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGZ		1			376147	10/21/21 12:55	RJR	TAL PIT
Dissolved	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	375688	10/18/21 14:56	KMM	TAL PIT

Client Sample ID: SW-14-1.5

Lab Sample ID: 180-128482-35

Date Collected: 10/13/21 09:59

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0 Instrument ID: CHICS2100B		1			375373	10/15/21 16:01	J1T	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	376462	10/27/21 09:00	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			376929	10/28/21 18:36	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	375890	10/20/21 06:22	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			376147	10/21/21 12:56	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	375688	10/18/21 14:56	KMM	TAL PIT

Client Sample ID: SW-14-1.5 FF

Lab Sample ID: 180-128482-36

Date Collected: 10/13/21 10:09

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			375373	10/15/21 16:19	J1T	TAL PIT
Dissolved	Prep	3005A			50 mL	50 mL	376462	10/27/21 09:00	RGM	TAL PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			376929	10/28/21 18:40	RSK	TAL PIT
Dissolved	Prep	7470A			25 mL	25 mL	375890	10/20/21 06:22	RJR	TAL PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGZ		1			376147	10/21/21 12:57	RJR	TAL PIT
Dissolved	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	375688	10/18/21 14:56	KMM	TAL PIT

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: SW-15-1.5

Lab Sample ID: 180-128482-37

Date Collected: 10/13/21 10:42

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			375373	10/15/21 16:37	J1T	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	376462	10/27/21 09:00	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376929	10/28/21 18:44	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	375890	10/20/21 06:22	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			376147	10/21/21 12:58	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	375688	10/18/21 14:56	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-15-1.5 FF

Lab Sample ID: 180-128482-38

Date Collected: 10/13/21 10:52

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			375373	10/15/21 16:55	J1T	TAL PIT
Instrument ID: CHICS2100B										
Dissolved	Prep	3005A			50 mL	50 mL	376461	10/27/21 09:00	RGM	TAL PIT
Dissolved	Analysis	EPA 6020B		1			376929	10/28/21 21:53	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	7470A			25 mL	25 mL	375890	10/20/21 06:22	RJR	TAL PIT
Dissolved	Analysis	EPA 7470A		1			376147	10/21/21 12:59	RJR	TAL PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	375688	10/18/21 14:56	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-16-1.5

Lab Sample ID: 180-128482-39

Date Collected: 10/13/21 11:24

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			375373	10/15/21 17:13	J1T	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	376461	10/27/21 09:00	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376929	10/28/21 21:56	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	375890	10/20/21 06:22	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			376147	10/21/21 13:00	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	375688	10/18/21 14:56	KMM	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: SW-16-1.5 FF

Lab Sample ID: 180-128482-40

Date Collected: 10/13/21 11:34

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			375373	10/15/21 18:06	J1T	TAL PIT
Dissolved	Prep	3005A			50 mL	50 mL	376461	10/27/21 09:00	RGM	TAL PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			376929	10/28/21 22:00	RSK	TAL PIT
Dissolved	Prep	7470A			25 mL	25 mL	375829	10/19/21 13:48	MM1	TAL PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGZ		1			376147	10/21/21 12:20	RJR	TAL PIT
Dissolved	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	375868	10/19/21 19:14	KMM	TAL PIT

Client Sample ID: SW-17-1

Lab Sample ID: 180-128482-41

Date Collected: 10/13/21 09:16

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0 Instrument ID: CHICS2100B		1			375373	10/15/21 18:24	J1T	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	376461	10/27/21 09:00	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			376929	10/28/21 22:22	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	375829	10/19/21 13:48	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			376147	10/21/21 12:21	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	375868	10/19/21 19:14	KMM	TAL PIT

Client Sample ID: SW-17-1 FF

Lab Sample ID: 180-128482-42

Date Collected: 10/13/21 09:26

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			375373	10/15/21 18:42	J1T	TAL PIT
Dissolved	Prep	3005A			50 mL	50 mL	376461	10/27/21 09:00	RGM	TAL PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			376929	10/28/21 22:25	RSK	TAL PIT
Dissolved	Prep	7470A			25 mL	25 mL	375829	10/19/21 13:48	MM1	TAL PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGZ		1			376147	10/21/21 12:22	RJR	TAL PIT
Dissolved	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	375868	10/19/21 19:14	KMM	TAL PIT

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: EB-01

Lab Sample ID: 180-128482-43

Date Collected: 10/13/21 14:31

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			375373	10/15/21 19:36	J1T	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	376461	10/27/21 09:00	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376929	10/28/21 22:29	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	375829	10/19/21 13:48	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			376147	10/21/21 12:23	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	375868	10/19/21 19:14	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: EB-02

Lab Sample ID: 180-128482-44

Date Collected: 10/13/21 15:57

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			375373	10/15/21 19:54	J1T	TAL PIT
Instrument ID: CHICS2100B										
Dissolved	Prep	3005A			50 mL	50 mL	376461	10/27/21 09:00	RGM	TAL PIT
Dissolved	Analysis	EPA 6020B		1			376929	10/28/21 22:33	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	7470A			25 mL	25 mL	375829	10/19/21 13:48	MM1	TAL PIT
Dissolved	Analysis	EPA 7470A		1			376147	10/21/21 12:24	RJR	TAL PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	375868	10/19/21 19:14	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: DUP-01

Lab Sample ID: 180-128482-45

Date Collected: 10/13/21 13:45

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			375373	10/15/21 20:12	J1T	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	376461	10/27/21 09:00	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376929	10/28/21 22:36	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	375891	10/20/21 06:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			376147	10/21/21 13:20	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	375868	10/19/21 19:14	KMM	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: DUP-01 FF

Lab Sample ID: 180-128482-46

Date Collected: 10/13/21 13:55

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			375373	10/15/21 20:30	J1T	TAL PIT
Dissolved	Prep	3005A			50 mL	50 mL	376461	10/27/21 09:00	RGM	TAL PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			376929	10/28/21 22:40	RSK	TAL PIT
Dissolved	Prep	7470A			25 mL	25 mL	375829	10/19/21 13:48	MM1	TAL PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGZ		1			376147	10/21/21 12:28	RJR	TAL PIT
Dissolved	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	375869	10/19/21 19:22	KMM	TAL PIT

Client Sample ID: DUP-02

Lab Sample ID: 180-128482-47

Date Collected: 10/13/21 14:20

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0 Instrument ID: CHICS2100B		1			375373	10/15/21 20:48	J1T	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	376461	10/27/21 09:00	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			376929	10/28/21 22:44	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	375829	10/19/21 13:48	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			376147	10/21/21 12:29	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	375869	10/19/21 19:22	KMM	TAL PIT

Client Sample ID: DUP-02 FF

Lab Sample ID: 180-128482-48

Date Collected: 10/13/21 14:30

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			375373	10/15/21 21:06	J1T	TAL PIT
Dissolved	Prep	3005A			50 mL	50 mL	376461	10/27/21 09:00	RGM	TAL PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			376929	10/28/21 22:47	RSK	TAL PIT
Dissolved	Prep	7470A			25 mL	25 mL	375829	10/19/21 13:48	MM1	TAL PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGZ		1			376147	10/21/21 12:30	RJR	TAL PIT
Dissolved	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	375869	10/19/21 19:22	KMM	TAL PIT

Laboratory References:

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

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Analyst References:

Lab: TAL PIT

Batch Type: Prep

KFS = Kelly Shannon

MM1 = Mary Beth Miller

RGM = Rebecca Manns

RJR = Ron Rosenbaum

Batch Type: Analysis

J1T = Jianwu Tang

KMM = Kendric Moore

RJR = Ron Rosenbaum

RSK = Robert Kurtz

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: SW-1-1'

Lab Sample ID: 180-128482-1

Date Collected: 10/13/21 15:20

Matrix: Water

Date Received: 10/14/21 09:15

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		1.0	0.71	mg/L			10/15/21 14:32	1
Fluoride	0.030	J	0.20	0.026	mg/L			10/15/21 14:32	1
Sulfate	15		1.0	0.76	mg/L			10/15/21 14:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00048	J	0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 19:34	1
Arsenic	0.00094	J	0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 19:34	1
Barium	0.024		0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 19:34	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 19:34	1
Boron	0.054	J	0.080	0.039	mg/L		10/27/21 09:00	10/28/21 19:34	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 19:34	1
Calcium	4.6		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 19:34	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 19:34	1
Cobalt	0.00038	J	0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 19:34	1
Lead	0.00072	J	0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 19:34	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/27/21 09:00	10/28/21 19:34	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/27/21 09:00	10/28/21 19:34	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/27/21 09:00	10/28/21 19:34	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/27/21 09:00	10/28/21 19:34	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/19/21 09:55	10/21/21 11:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	290		10	10	mg/L			10/15/21 12:57	1

Client Sample ID: SW-1-1' FF

Lab Sample ID: 180-128482-2

Date Collected: 10/13/21 15:30

Matrix: Water

Date Received: 10/14/21 09:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	96		1.0	0.71	mg/L			10/15/21 15:26	1
Fluoride, Dissolved	0.046	J	0.10	0.026	mg/L			10/15/21 15:26	1
Sulfate, Dissolved	14		1.0	0.76	mg/L			10/15/21 15:26	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 19:38	1
Arsenic, Dissolved	0.00068	J	0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 19:38	1
Barium, Dissolved	0.022		0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 19:38	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 19:38	1
Boron, Dissolved	0.047	J	0.080	0.039	mg/L		10/27/21 09:00	10/28/21 19:38	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 19:38	1
Calcium, Dissolved	4.5		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 19:38	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 19:38	1
Cobalt, Dissolved	0.00024	J	0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 19:38	1
Lead, Dissolved	0.00020	J	0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 19:38	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: SW-1-1' FF

Lab Sample ID: 180-128482-2

Date Collected: 10/13/21 15:30

Matrix: Water

Date Received: 10/14/21 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		10/27/21 09:00	10/28/21 19:38	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		10/27/21 09:00	10/28/21 19:38	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		10/27/21 09:00	10/28/21 19:38	1
Thallium, Dissolved	0.00016	J	0.0010	0.00015	mg/L		10/27/21 09:00	10/28/21 19:38	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		10/19/21 09:55	10/21/21 11:34	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	300		10	10	mg/L			10/15/21 12:57	1

Client Sample ID: SW-1-7'

Lab Sample ID: 180-128482-3

Date Collected: 10/13/21 15:40

Matrix: Water

Date Received: 10/14/21 09:15

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68		1.0	0.71	mg/L			10/15/21 17:31	1
Fluoride	0.027	J	0.20	0.026	mg/L			10/15/21 17:31	1
Sulfate	10		1.0	0.76	mg/L			10/15/21 17:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 19:42	1
Arsenic	0.0010		0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 19:42	1
Barium	0.025		0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 19:42	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 19:42	1
Boron	<0.039		0.080	0.039	mg/L		10/27/21 09:00	10/28/21 19:42	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 19:42	1
Calcium	3.7		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 19:42	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 19:42	1
Cobalt	0.00045	J	0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 19:42	1
Lead	0.00071	J	0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 19:42	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/27/21 09:00	10/28/21 19:42	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/27/21 09:00	10/28/21 19:42	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/27/21 09:00	10/28/21 19:42	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/27/21 09:00	10/28/21 19:42	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/19/21 09:55	10/21/21 11:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	180		10	10	mg/L			10/18/21 13:56	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: SW-1-7' FF

Lab Sample ID: 180-128482-4

Date Collected: 10/13/21 15:50

Matrix: Water

Date Received: 10/14/21 09:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	62		1.0	0.71	mg/L			10/15/21 17:49	1
Fluoride, Dissolved	0.029	J	0.10	0.026	mg/L			10/15/21 17:49	1
Sulfate, Dissolved	9.1		1.0	0.76	mg/L			10/15/21 17:49	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 19:45	1
Arsenic, Dissolved	0.00094	J	0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 19:45	1
Barium, Dissolved	0.024		0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 19:45	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 19:45	1
Boron, Dissolved	0.040	J	0.080	0.039	mg/L		10/27/21 09:00	10/28/21 19:45	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 19:45	1
Calcium, Dissolved	4.2		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 19:45	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 19:45	1
Cobalt, Dissolved	0.00030	J	0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 19:45	1
Lead, Dissolved	0.00028	J	0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 19:45	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		10/27/21 09:00	10/28/21 19:45	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		10/27/21 09:00	10/28/21 19:45	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		10/27/21 09:00	10/28/21 19:45	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		10/27/21 09:00	10/28/21 19:45	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		10/19/21 09:55	10/21/21 11:36	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	190		10	10	mg/L			10/18/21 13:56	1

Client Sample ID: SW-3-1'

Lab Sample ID: 180-128482-5

Date Collected: 10/13/21 07:46

Matrix: Water

Date Received: 10/14/21 09:15

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31		1.0	0.71	mg/L			10/15/21 18:06	1
Fluoride	<0.026		0.20	0.026	mg/L			10/15/21 18:06	1
Sulfate	4.9		1.0	0.76	mg/L			10/15/21 18:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 19:49	1
Arsenic	0.00095	J	0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 19:49	1
Barium	0.026		0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 19:49	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 19:49	1
Boron	<0.039		0.080	0.039	mg/L		10/27/21 09:00	10/28/21 19:49	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 19:49	1
Calcium	2.8		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 19:49	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 19:49	1
Cobalt	0.00040	J	0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 19:49	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: SW-3-1'

Lab Sample ID: 180-128482-5

Date Collected: 10/13/21 07:46

Matrix: Water

Date Received: 10/14/21 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00067	J	0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 19:49	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/27/21 09:00	10/28/21 19:49	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/27/21 09:00	10/28/21 19:49	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/27/21 09:00	10/28/21 19:49	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/27/21 09:00	10/28/21 19:49	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/19/21 09:55	10/21/21 11:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	84		10	10	mg/L			10/18/21 13:56	1

Client Sample ID: SW-3-1' FF

Lab Sample ID: 180-128482-6

Date Collected: 10/13/21 07:56

Matrix: Water

Date Received: 10/14/21 09:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	30		1.0	0.71	mg/L			10/15/21 18:24	1
Fluoride, Dissolved	0.034	J	0.10	0.026	mg/L			10/15/21 18:24	1
Sulfate, Dissolved	4.8		1.0	0.76	mg/L			10/15/21 18:24	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 19:53	1
Arsenic, Dissolved	0.00076	J	0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 19:53	1
Barium, Dissolved	0.023		0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 19:53	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 19:53	1
Boron, Dissolved	<0.039		0.080	0.039	mg/L		10/27/21 09:00	10/28/21 19:53	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 19:53	1
Calcium, Dissolved	2.5		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 19:53	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 19:53	1
Cobalt, Dissolved	0.00014	J	0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 19:53	1
Lead, Dissolved	<0.00013		0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 19:53	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		10/27/21 09:00	10/28/21 19:53	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		10/27/21 09:00	10/28/21 19:53	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		10/27/21 09:00	10/28/21 19:53	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		10/27/21 09:00	10/28/21 19:53	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		10/19/21 09:55	10/21/21 11:41	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	85		10	10	mg/L			10/18/21 13:56	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: SW-3-4'

Lab Sample ID: 180-128482-7

Date Collected: 10/13/21 08:24

Matrix: Water

Date Received: 10/14/21 09:15

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31		1.0	0.71	mg/L			10/15/21 18:42	1
Fluoride	0.037	J	0.20	0.026	mg/L			10/15/21 18:42	1
Sulfate	4.9		1.0	0.76	mg/L			10/15/21 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 19:56	1
Arsenic	0.00095	J	0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 19:56	1
Barium	0.026		0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 19:56	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 19:56	1
Boron	<0.039		0.080	0.039	mg/L		10/27/21 09:00	10/28/21 19:56	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 19:56	1
Calcium	2.7		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 19:56	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 19:56	1
Cobalt	0.00044	J	0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 19:56	1
Lead	0.00067	J	0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 19:56	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/27/21 09:00	10/28/21 19:56	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/27/21 09:00	10/28/21 19:56	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/27/21 09:00	10/28/21 19:56	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/27/21 09:00	10/28/21 19:56	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/19/21 09:55	10/21/21 11:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	76		10	10	mg/L			10/18/21 13:56	1

Client Sample ID: SW-3-4' FF

Lab Sample ID: 180-128482-8

Date Collected: 10/13/21 08:34

Matrix: Water

Date Received: 10/14/21 09:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	30		1.0	0.71	mg/L			10/15/21 19:00	1
Fluoride, Dissolved	0.026	J	0.10	0.026	mg/L			10/15/21 19:00	1
Sulfate, Dissolved	4.9		1.0	0.76	mg/L			10/15/21 19:00	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 20:00	1
Arsenic, Dissolved	0.00074	J	0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 20:00	1
Barium, Dissolved	0.024		0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 20:00	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 20:00	1
Boron, Dissolved	<0.039		0.080	0.039	mg/L		10/27/21 09:00	10/28/21 20:00	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 20:00	1
Calcium, Dissolved	2.6		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 20:00	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 20:00	1
Cobalt, Dissolved	0.00017	J	0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 20:00	1
Lead, Dissolved	0.00025	J	0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 20:00	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: SW-3-4' FF

Lab Sample ID: 180-128482-8

Date Collected: 10/13/21 08:34

Matrix: Water

Date Received: 10/14/21 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		10/27/21 09:00	10/28/21 20:00	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		10/27/21 09:00	10/28/21 20:00	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		10/27/21 09:00	10/28/21 20:00	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		10/27/21 09:00	10/28/21 20:00	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		10/19/21 09:55	10/21/21 11:42	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	110		10	10	mg/L			10/18/21 13:56	1

Client Sample ID: SW-2-1'

Lab Sample ID: 180-128482-9

Date Collected: 10/13/21 16:10

Matrix: Water

Date Received: 10/14/21 09:15

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	97		1.0	0.71	mg/L			10/15/21 21:23	1
Fluoride	0.032	J	0.20	0.026	mg/L			10/15/21 21:23	1
Sulfate	14		1.0	0.76	mg/L			10/15/21 21:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 20:04	1
Arsenic	0.00095	J	0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 20:04	1
Barium	0.024		0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 20:04	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 20:04	1
Boron	<0.039		0.080	0.039	mg/L		10/27/21 09:00	10/28/21 20:04	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 20:04	1
Calcium	4.5		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 20:04	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 20:04	1
Cobalt	0.00038	J	0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 20:04	1
Lead	0.00065	J	0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 20:04	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/27/21 09:00	10/28/21 20:04	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/27/21 09:00	10/28/21 20:04	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/27/21 09:00	10/28/21 20:04	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/27/21 09:00	10/28/21 20:04	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/19/21 09:55	10/21/21 11:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	210		10	10	mg/L			10/18/21 13:56	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: SW-2-1' FF

Lab Sample ID: 180-128482-10

Date Collected: 10/13/21 16:20

Matrix: Water

Date Received: 10/14/21 09:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	94		1.0	0.71	mg/L			10/15/21 21:41	1
Fluoride, Dissolved	0.032	J	0.10	0.026	mg/L			10/15/21 21:41	1
Sulfate, Dissolved	14		1.0	0.76	mg/L			10/15/21 21:41	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.00051	J	0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 20:14	1
Arsenic, Dissolved	0.00080	J	0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 20:14	1
Barium, Dissolved	0.023		0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 20:14	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 20:14	1
Boron, Dissolved	0.039	J	0.080	0.039	mg/L		10/27/21 09:00	10/28/21 20:14	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 20:14	1
Calcium, Dissolved	4.5		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 20:14	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 20:14	1
Cobalt, Dissolved	0.00026	J	0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 20:14	1
Lead, Dissolved	0.00033	J	0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 20:14	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		10/27/21 09:00	10/28/21 20:14	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		10/27/21 09:00	10/28/21 20:14	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		10/27/21 09:00	10/28/21 20:14	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		10/27/21 09:00	10/28/21 20:14	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		10/19/21 09:55	10/21/21 11:44	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	220		10	10	mg/L			10/18/21 13:56	1

Client Sample ID: SW-2-7'

Lab Sample ID: 180-128482-11

Date Collected: 10/13/21 16:30

Matrix: Water

Date Received: 10/14/21 09:15

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72		1.0	0.71	mg/L			10/15/21 21:59	1
Fluoride	0.029	J	0.20	0.026	mg/L			10/15/21 21:59	1
Sulfate	11		1.0	0.76	mg/L			10/15/21 21:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 20:18	1
Arsenic	0.00089	J	0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 20:18	1
Barium	0.031		0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 20:18	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 20:18	1
Boron	<0.039		0.080	0.039	mg/L		10/27/21 09:00	10/28/21 20:18	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 20:18	1
Calcium	4.0		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 20:18	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 20:18	1
Cobalt	0.00037	J	0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 20:18	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: SW-2-7'

Lab Sample ID: 180-128482-11

Date Collected: 10/13/21 16:30

Matrix: Water

Date Received: 10/14/21 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00070	J	0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 20:18	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/27/21 09:00	10/28/21 20:18	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/27/21 09:00	10/28/21 20:18	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/27/21 09:00	10/28/21 20:18	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/27/21 09:00	10/28/21 20:18	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/19/21 09:55	10/21/21 11:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	170		10	10	mg/L			10/18/21 13:56	1

Client Sample ID: SW-2-7' FF

Lab Sample ID: 180-128482-12

Date Collected: 10/13/21 16:40

Matrix: Water

Date Received: 10/14/21 09:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	72		1.0	0.71	mg/L			10/15/21 22:17	1
Fluoride, Dissolved	0.026	J	0.10	0.026	mg/L			10/15/21 22:17	1
Sulfate, Dissolved	11		1.0	0.76	mg/L			10/15/21 22:17	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 20:22	1
Arsenic, Dissolved	0.00076	J	0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 20:22	1
Barium, Dissolved	0.029		0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 20:22	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 20:22	1
Boron, Dissolved	<0.039		0.080	0.039	mg/L		10/27/21 09:00	10/28/21 20:22	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 20:22	1
Calcium, Dissolved	3.8		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 20:22	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 20:22	1
Cobalt, Dissolved	0.00014	J	0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 20:22	1
Lead, Dissolved	0.00036	J	0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 20:22	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		10/27/21 09:00	10/28/21 20:22	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		10/27/21 09:00	10/28/21 20:22	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		10/27/21 09:00	10/28/21 20:22	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		10/27/21 09:00	10/28/21 20:22	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		10/19/21 09:55	10/21/21 11:48	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	160		10	10	mg/L			10/18/21 13:56	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: SW-4-1.5

Lab Sample ID: 180-128482-13

Date Collected: 10/13/21 08:20

Matrix: Water

Date Received: 10/14/21 09:15

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86		1.0	0.71	mg/L			10/15/21 22:34	1
Fluoride	0.041	J	0.20	0.026	mg/L			10/15/21 22:34	1
Sulfate	12		1.0	0.76	mg/L			10/15/21 22:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 20:25	1
Arsenic	0.0010		0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 20:25	1
Barium	0.028		0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 20:25	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 20:25	1
Boron	<0.039		0.080	0.039	mg/L		10/27/21 09:00	10/28/21 20:25	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 20:25	1
Calcium	4.4		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 20:25	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 20:25	1
Cobalt	0.00021	J	0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 20:25	1
Lead	0.00055	J	0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 20:25	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/27/21 09:00	10/28/21 20:25	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/27/21 09:00	10/28/21 20:25	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/27/21 09:00	10/28/21 20:25	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/27/21 09:00	10/28/21 20:25	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/19/21 09:55	10/21/21 11:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	220		10	10	mg/L			10/18/21 13:56	1

Client Sample ID: SW-4-1.5 FF

Lab Sample ID: 180-128482-14

Date Collected: 10/13/21 08:30

Matrix: Water

Date Received: 10/14/21 09:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	89		1.0	0.71	mg/L			10/16/21 00:22	1
Fluoride, Dissolved	0.034	J	0.10	0.026	mg/L			10/16/21 00:22	1
Sulfate, Dissolved	13		1.0	0.76	mg/L			10/16/21 00:22	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 20:29	1
Arsenic, Dissolved	0.00069	J	0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 20:29	1
Barium, Dissolved	0.028		0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 20:29	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 20:29	1
Boron, Dissolved	<0.039		0.080	0.039	mg/L		10/27/21 09:00	10/28/21 20:29	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 20:29	1
Calcium, Dissolved	4.3		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 20:29	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 20:29	1
Cobalt, Dissolved	0.00013	J	0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 20:29	1
Lead, Dissolved	0.00021	J	0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 20:29	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: SW-4-1.5 FF

Lab Sample ID: 180-128482-14

Date Collected: 10/13/21 08:30

Matrix: Water

Date Received: 10/14/21 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		10/27/21 09:00	10/28/21 20:29	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		10/27/21 09:00	10/28/21 20:29	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		10/27/21 09:00	10/28/21 20:29	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		10/27/21 09:00	10/28/21 20:29	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		10/19/21 09:55	10/21/21 11:53	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	220		10	10	mg/L			10/18/21 13:56	1

Client Sample ID: SW-5-1

Lab Sample ID: 180-128482-15

Date Collected: 10/13/21 11:00

Matrix: Water

Date Received: 10/14/21 09:15

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30		1.0	0.71	mg/L			10/16/21 00:04	1
Fluoride	<0.026		0.20	0.026	mg/L			10/16/21 00:04	1
Sulfate	4.7		1.0	0.76	mg/L			10/16/21 00:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 20:33	1
Arsenic	0.00082	J	0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 20:33	1
Barium	0.029		0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 20:33	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 20:33	1
Boron	<0.039		0.080	0.039	mg/L		10/27/21 09:00	10/28/21 20:33	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 20:33	1
Calcium	2.4		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 20:33	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 20:33	1
Cobalt	0.00053	J	0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 20:33	1
Lead	0.00067	J	0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 20:33	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/27/21 09:00	10/28/21 20:33	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/27/21 09:00	10/28/21 20:33	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/27/21 09:00	10/28/21 20:33	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/27/21 09:00	10/28/21 20:33	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/19/21 09:55	10/21/21 11:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	86		10	10	mg/L			10/18/21 13:56	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: SW-5-1 FF

Lab Sample ID: 180-128482-16

Date Collected: 10/13/21 11:10

Matrix: Water

Date Received: 10/14/21 09:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	26		1.0	0.71	mg/L			10/15/21 20:29	1
Fluoride, Dissolved	<0.026		0.10	0.026	mg/L			10/15/21 20:29	1
Sulfate, Dissolved	4.0		1.0	0.76	mg/L			10/15/21 20:29	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 20:36	1
Arsenic, Dissolved	0.00064	J	0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 20:36	1
Barium, Dissolved	0.026		0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 20:36	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 20:36	1
Boron, Dissolved	<0.039		0.080	0.039	mg/L		10/27/21 09:00	10/28/21 20:36	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 20:36	1
Calcium, Dissolved	2.3		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 20:36	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 20:36	1
Cobalt, Dissolved	0.00041	J	0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 20:36	1
Lead, Dissolved	0.00031	J	0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 20:36	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		10/27/21 09:00	10/28/21 20:36	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		10/27/21 09:00	10/28/21 20:36	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		10/27/21 09:00	10/28/21 20:36	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		10/27/21 09:00	10/28/21 20:36	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		10/19/21 09:55	10/21/21 11:55	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	87		10	10	mg/L			10/18/21 13:56	1

Client Sample ID: SW-5-13

Lab Sample ID: 180-128482-17

Date Collected: 10/13/21 11:20

Matrix: Water

Date Received: 10/14/21 09:15

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15		1.0	0.71	mg/L			10/15/21 23:46	1
Fluoride	<0.026		0.20	0.026	mg/L			10/15/21 23:46	1
Sulfate	2.6		1.0	0.76	mg/L			10/15/21 23:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 20:40	1
Arsenic	0.0010		0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 20:40	1
Barium	0.029		0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 20:40	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 20:40	1
Boron	<0.039		0.080	0.039	mg/L		10/27/21 09:00	10/28/21 20:40	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 20:40	1
Calcium	1.8		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 20:40	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 20:40	1
Cobalt	0.00054	J	0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 20:40	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: SW-5-13

Lab Sample ID: 180-128482-17

Date Collected: 10/13/21 11:20

Matrix: Water

Date Received: 10/14/21 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00065	J	0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 20:40	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/27/21 09:00	10/28/21 20:40	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/27/21 09:00	10/28/21 20:40	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/27/21 09:00	10/28/21 20:40	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/27/21 09:00	10/28/21 20:40	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/19/21 09:55	10/21/21 11:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	57		10	10	mg/L			10/18/21 13:56	1

Client Sample ID: SW-5-13 FF

Lab Sample ID: 180-128482-18

Date Collected: 10/13/21 11:30

Matrix: Water

Date Received: 10/14/21 09:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	16		1.0	0.71	mg/L			10/15/21 23:28	1
Fluoride, Dissolved	<0.026		0.10	0.026	mg/L			10/15/21 23:28	1
Sulfate, Dissolved	2.7		1.0	0.76	mg/L			10/15/21 23:28	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 17:06	1
Arsenic, Dissolved	0.00073	J	0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 17:06	1
Barium, Dissolved	0.026		0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 17:06	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 17:06	1
Boron, Dissolved	0.075	J	0.080	0.039	mg/L		10/27/21 09:00	10/28/21 17:06	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 17:06	1
Calcium, Dissolved	1.8		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 17:06	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 17:06	1
Cobalt, Dissolved	0.00041	J	0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 17:06	1
Lead, Dissolved	0.00037	J	0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 17:06	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		10/27/21 09:00	10/28/21 17:06	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		10/27/21 09:00	10/28/21 17:06	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		10/27/21 09:00	10/28/21 17:06	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		10/27/21 09:00	10/28/21 17:06	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		10/19/21 09:55	10/21/21 11:57	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	58		10	10	mg/L			10/18/21 13:56	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: SW-6-1

Lab Sample ID: 180-128482-19

Date Collected: 10/13/21 09:25

Matrix: Water

Date Received: 10/14/21 09:15

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34		1.0	0.71	mg/L			10/16/21 01:33	1
Fluoride	0.027	J	0.20	0.026	mg/L			10/16/21 01:33	1
Sulfate	5.9		1.0	0.76	mg/L			10/16/21 01:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 17:24	1
Arsenic	0.0011		0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 17:24	1
Barium	0.023		0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 17:24	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 17:24	1
Boron	0.11		0.080	0.039	mg/L		10/27/21 09:00	10/28/21 17:24	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 17:24	1
Calcium	3.4		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 17:24	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 17:24	1
Cobalt	0.00041	J	0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 17:24	1
Lead	0.00083	J	0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 17:24	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/27/21 09:00	10/28/21 17:24	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/27/21 09:00	10/28/21 17:24	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/27/21 09:00	10/28/21 17:24	1
Thallium	0.00064	J	0.0010	0.00015	mg/L		10/27/21 09:00	10/28/21 17:24	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/19/21 09:55	10/21/21 11:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	97		10	10	mg/L			10/18/21 13:56	1

Client Sample ID: SW-6-1 FF

Lab Sample ID: 180-128482-20

Date Collected: 10/13/21 09:30

Matrix: Water

Date Received: 10/14/21 09:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	33		1.0	0.71	mg/L			10/16/21 00:39	1
Fluoride, Dissolved	0.027	J	0.10	0.026	mg/L			10/16/21 00:39	1
Sulfate, Dissolved	5.9		1.0	0.76	mg/L			10/16/21 00:39	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 17:27	1
Arsenic, Dissolved	0.0010		0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 17:27	1
Barium, Dissolved	0.022		0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 17:27	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 17:27	1
Boron, Dissolved	0.063	J	0.080	0.039	mg/L		10/27/21 09:00	10/28/21 17:27	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 17:27	1
Calcium, Dissolved	3.6		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 17:27	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 17:27	1
Cobalt, Dissolved	0.00015	J	0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 17:27	1
Lead, Dissolved	0.00037	J	0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 17:27	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: SW-6-1 FF

Lab Sample ID: 180-128482-20

Date Collected: 10/13/21 09:30

Matrix: Water

Date Received: 10/14/21 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		10/27/21 09:00	10/28/21 17:27	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		10/27/21 09:00	10/28/21 17:27	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		10/27/21 09:00	10/28/21 17:27	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		10/27/21 09:00	10/28/21 17:27	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		10/20/21 06:22	10/21/21 12:33	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	110		10	10	mg/L			10/18/21 14:56	1

Client Sample ID: SW-6-9.5

Lab Sample ID: 180-128482-21

Date Collected: 10/13/21 09:50

Matrix: Water

Date Received: 10/14/21 09:15

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25		1.0	0.71	mg/L			10/16/21 01:51	1
Fluoride	0.036	J	0.20	0.026	mg/L			10/16/21 01:51	1
Sulfate	4.9		1.0	0.76	mg/L			10/16/21 01:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 17:31	1
Arsenic	0.00092	J	0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 17:31	1
Barium	0.024		0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 17:31	1
Beryllium	0.00023	J	0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 17:31	1
Boron	0.048	J	0.080	0.039	mg/L		10/27/21 09:00	10/28/21 17:31	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 17:31	1
Calcium	3.4		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 17:31	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 17:31	1
Cobalt	0.00037	J	0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 17:31	1
Lead	0.00063	J	0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 17:31	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/27/21 09:00	10/28/21 17:31	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/27/21 09:00	10/28/21 17:31	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/27/21 09:00	10/28/21 17:31	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/27/21 09:00	10/28/21 17:31	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/20/21 06:22	10/21/21 12:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	88		10	10	mg/L			10/18/21 14:56	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: SW-6-9.5 FF

Lab Sample ID: 180-128482-22

Date Collected: 10/13/21 10:00

Matrix: Water

Date Received: 10/14/21 09:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	4.2		1.0	0.71	mg/L			10/16/21 02:09	1
Fluoride, Dissolved	<0.026		0.10	0.026	mg/L			10/16/21 02:09	1
Sulfate, Dissolved	<0.76		1.0	0.76	mg/L			10/16/21 02:09	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.00048	J	0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 17:42	1
Arsenic, Dissolved	0.00060	J	0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 17:42	1
Barium, Dissolved	0.021		0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 17:42	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 17:42	1
Boron, Dissolved	<0.039		0.080	0.039	mg/L		10/27/21 09:00	10/28/21 17:42	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 17:42	1
Calcium, Dissolved	3.1		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 17:42	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 17:42	1
Cobalt, Dissolved	0.00018	J	0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 17:42	1
Lead, Dissolved	0.00034	J	0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 17:42	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		10/27/21 09:00	10/28/21 17:42	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		10/27/21 09:00	10/28/21 17:42	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		10/27/21 09:00	10/28/21 17:42	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		10/27/21 09:00	10/28/21 17:42	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		10/20/21 06:22	10/21/21 12:37	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	110		10	10	mg/L			10/18/21 14:56	1

Client Sample ID: SW-9-1

Lab Sample ID: 180-128482-23

Date Collected: 10/13/21 11:50

Matrix: Water

Date Received: 10/14/21 09:15

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		1.0	0.71	mg/L			10/16/21 03:02	1
Fluoride	0.059	J	0.20	0.026	mg/L			10/16/21 03:02	1
Sulfate	15		1.0	0.76	mg/L			10/16/21 03:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 17:46	1
Arsenic	0.0010		0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 17:46	1
Barium	0.029		0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 17:46	1
Beryllium	0.00021	J	0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 17:46	1
Boron	0.051	J	0.080	0.039	mg/L		10/27/21 09:00	10/28/21 17:46	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 17:46	1
Calcium	4.8		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 17:46	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 17:46	1
Cobalt	0.00038	J	0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 17:46	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: SW-9-1

Lab Sample ID: 180-128482-23

Date Collected: 10/13/21 11:50

Matrix: Water

Date Received: 10/14/21 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00071	J	0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 17:46	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/27/21 09:00	10/28/21 17:46	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/27/21 09:00	10/28/21 17:46	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/27/21 09:00	10/28/21 17:46	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/27/21 09:00	10/28/21 17:46	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/20/21 06:22	10/21/21 12:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	230		10	10	mg/L			10/18/21 14:56	1

Client Sample ID: SW-9-1 FF

Lab Sample ID: 180-128482-24

Date Collected: 10/13/21 12:00

Matrix: Water

Date Received: 10/14/21 09:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	100		1.0	0.71	mg/L			10/16/21 03:20	1
Fluoride, Dissolved	0.028	J	0.10	0.026	mg/L			10/16/21 03:20	1
Sulfate, Dissolved	15		1.0	0.76	mg/L			10/16/21 03:20	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 17:49	1
Arsenic, Dissolved	0.00093	J	0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 17:49	1
Barium, Dissolved	0.022		0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 17:49	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 17:49	1
Boron, Dissolved	0.048	J	0.080	0.039	mg/L		10/27/21 09:00	10/28/21 17:49	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 17:49	1
Calcium, Dissolved	4.5		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 17:49	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 17:49	1
Cobalt, Dissolved	0.00028	J	0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 17:49	1
Lead, Dissolved	0.00031	J	0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 17:49	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		10/27/21 09:00	10/28/21 17:49	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		10/27/21 09:00	10/28/21 17:49	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		10/27/21 09:00	10/28/21 17:49	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		10/27/21 09:00	10/28/21 17:49	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		10/20/21 06:22	10/21/21 12:42	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	230		10	10	mg/L			10/18/21 14:56	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: SW-9-4

Lab Sample ID: 180-128482-25

Date Collected: 10/13/21 12:10

Matrix: Water

Date Received: 10/14/21 09:15

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		1.0	0.71	mg/L			10/16/21 03:38	1
Fluoride	0.030	J	0.20	0.026	mg/L			10/16/21 03:38	1
Sulfate	15		1.0	0.76	mg/L			10/16/21 03:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 17:53	1
Arsenic	0.00067	J	0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 17:53	1
Barium	0.023		0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 17:53	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 17:53	1
Boron	0.042	J	0.080	0.039	mg/L		10/27/21 09:00	10/28/21 17:53	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 17:53	1
Calcium	4.6		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 17:53	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 17:53	1
Cobalt	0.00033	J	0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 17:53	1
Lead	0.00067	J	0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 17:53	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/27/21 09:00	10/28/21 17:53	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/27/21 09:00	10/28/21 17:53	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/27/21 09:00	10/28/21 17:53	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/27/21 09:00	10/28/21 17:53	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/20/21 06:22	10/21/21 12:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	230		10	10	mg/L			10/18/21 14:56	1

Client Sample ID: SW-9-4 FF

Lab Sample ID: 180-128482-26

Date Collected: 10/13/21 12:20

Matrix: Water

Date Received: 10/14/21 09:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	110		1.0	0.71	mg/L			10/16/21 03:56	1
Fluoride, Dissolved	0.029	J	0.10	0.026	mg/L			10/16/21 03:56	1
Sulfate, Dissolved	15		1.0	0.76	mg/L			10/16/21 03:56	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 17:57	1
Arsenic, Dissolved	0.00075	J	0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 17:57	1
Barium, Dissolved	0.021		0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 17:57	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 17:57	1
Boron, Dissolved	0.042	J	0.080	0.039	mg/L		10/27/21 09:00	10/28/21 17:57	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 17:57	1
Calcium, Dissolved	4.3		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 17:57	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 17:57	1
Cobalt, Dissolved	0.00026	J	0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 17:57	1
Lead, Dissolved	0.00025	J	0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 17:57	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: SW-9-4 FF

Lab Sample ID: 180-128482-26

Date Collected: 10/13/21 12:20

Matrix: Water

Date Received: 10/14/21 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		10/27/21 09:00	10/28/21 17:57	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		10/27/21 09:00	10/28/21 17:57	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		10/27/21 09:00	10/28/21 17:57	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		10/27/21 09:00	10/28/21 17:57	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		10/20/21 06:22	10/21/21 12:44	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	240		10	10	mg/L			10/18/21 14:56	1

Client Sample ID: SW-10-2

Lab Sample ID: 180-128482-27

Date Collected: 10/13/21 12:40

Matrix: Water

Date Received: 10/14/21 09:15

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96		1.0	0.71	mg/L			10/16/21 04:14	1
Fluoride	0.039	J	0.20	0.026	mg/L			10/16/21 04:14	1
Sulfate	14		1.0	0.76	mg/L			10/16/21 04:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 18:00	1
Arsenic	0.00081	J	0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 18:00	1
Barium	0.023		0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 18:00	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 18:00	1
Boron	0.040	J	0.080	0.039	mg/L		10/27/21 09:00	10/28/21 18:00	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 18:00	1
Calcium	4.3		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 18:00	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 18:00	1
Cobalt	0.00032	J	0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 18:00	1
Lead	0.00061	J	0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 18:00	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/27/21 09:00	10/28/21 18:00	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/27/21 09:00	10/28/21 18:00	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/27/21 09:00	10/28/21 18:00	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/27/21 09:00	10/28/21 18:00	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/20/21 06:22	10/21/21 12:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	210		10	10	mg/L			10/18/21 14:56	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: SW-10-2 FF

Lab Sample ID: 180-128482-28

Date Collected: 10/13/21 12:50

Matrix: Water

Date Received: 10/14/21 09:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	100		1.0	0.71	mg/L			10/16/21 04:32	1
Fluoride, Dissolved	0.028	J	0.10	0.026	mg/L			10/16/21 04:32	1
Sulfate, Dissolved	14		1.0	0.76	mg/L			10/16/21 04:32	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 18:04	1
Arsenic, Dissolved	0.00090	J	0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 18:04	1
Barium, Dissolved	0.022		0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 18:04	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 18:04	1
Boron, Dissolved	0.040	J	0.080	0.039	mg/L		10/27/21 09:00	10/28/21 18:04	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 18:04	1
Calcium, Dissolved	4.3		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 18:04	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 18:04	1
Cobalt, Dissolved	0.00026	J	0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 18:04	1
Lead, Dissolved	0.00026	J	0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 18:04	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		10/27/21 09:00	10/28/21 18:04	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		10/27/21 09:00	10/28/21 18:04	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		10/27/21 09:00	10/28/21 18:04	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		10/27/21 09:00	10/28/21 18:04	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		10/20/21 06:22	10/21/21 12:46	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	210		10	10	mg/L			10/18/21 14:56	1

Client Sample ID: SW-11-2

Lab Sample ID: 180-128482-29

Date Collected: 10/13/21 13:10

Matrix: Water

Date Received: 10/14/21 09:15

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	92	F1	1.0	0.71	mg/L			10/15/21 13:03	1
Fluoride	0.032	J	0.20	0.026	mg/L			10/15/21 13:03	1
Sulfate	14		1.0	0.76	mg/L			10/15/21 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 18:07	1
Arsenic	0.00080	J	0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 18:07	1
Barium	0.023		0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 18:07	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 18:07	1
Boron	0.039	J	0.080	0.039	mg/L		10/27/21 09:00	10/28/21 18:07	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 18:07	1
Calcium	4.3		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 18:07	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 18:07	1
Cobalt	0.00038	J	0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 18:07	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: SW-11-2

Lab Sample ID: 180-128482-29

Date Collected: 10/13/21 13:10

Matrix: Water

Date Received: 10/14/21 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00062	J	0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 18:07	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/27/21 09:00	10/28/21 18:07	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/27/21 09:00	10/28/21 18:07	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/27/21 09:00	10/28/21 18:07	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/27/21 09:00	10/28/21 18:07	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/20/21 06:22	10/21/21 12:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	220		10	10	mg/L			10/18/21 14:56	1

Client Sample ID: SW-11-2 FF

Lab Sample ID: 180-128482-30

Date Collected: 10/13/21 13:20

Matrix: Water

Date Received: 10/14/21 09:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	87		1.0	0.71	mg/L			10/15/21 13:56	1
Fluoride, Dissolved	0.035	J	0.10	0.026	mg/L			10/15/21 13:56	1
Sulfate, Dissolved	13		1.0	0.76	mg/L			10/15/21 13:56	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 18:11	1
Arsenic, Dissolved	0.00073	J	0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 18:11	1
Barium, Dissolved	0.022		0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 18:11	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 18:11	1
Boron, Dissolved	<0.039		0.080	0.039	mg/L		10/27/21 09:00	10/28/21 18:11	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 18:11	1
Calcium, Dissolved	4.0		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 18:11	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 18:11	1
Cobalt, Dissolved	0.00026	J	0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 18:11	1
Lead, Dissolved	0.00018	J	0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 18:11	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		10/27/21 09:00	10/28/21 18:11	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		10/27/21 09:00	10/28/21 18:11	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		10/27/21 09:00	10/28/21 18:11	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		10/27/21 09:00	10/28/21 18:11	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		10/20/21 06:22	10/21/21 12:48	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	210		10	10	mg/L			10/18/21 14:56	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: SW-12-2

Lab Sample ID: 180-128482-31

Date Collected: 10/13/21 13:40

Matrix: Water

Date Received: 10/14/21 09:15

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82		1.0	0.71	mg/L			10/15/21 14:13	1
Fluoride	0.031	J	0.20	0.026	mg/L			10/15/21 14:13	1
Sulfate	12		1.0	0.76	mg/L			10/15/21 14:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00047	J	0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 18:22	1
Arsenic	0.00089	J	0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 18:22	1
Barium	0.024		0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 18:22	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 18:22	1
Boron	0.039	J	0.080	0.039	mg/L		10/27/21 09:00	10/28/21 18:22	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 18:22	1
Calcium	4.0		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 18:22	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 18:22	1
Cobalt	0.00040	J	0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 18:22	1
Lead	0.00070	J	0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 18:22	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/27/21 09:00	10/28/21 18:22	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/27/21 09:00	10/28/21 18:22	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/27/21 09:00	10/28/21 18:22	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/27/21 09:00	10/28/21 18:22	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/20/21 06:22	10/21/21 12:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	210		10	10	mg/L			10/18/21 14:56	1

Client Sample ID: SW-12-2 FF

Lab Sample ID: 180-128482-32

Date Collected: 10/13/21 13:50

Matrix: Water

Date Received: 10/14/21 09:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	77		1.0	0.71	mg/L			10/15/21 14:31	1
Fluoride, Dissolved	0.037	J	0.10	0.026	mg/L			10/15/21 14:31	1
Sulfate, Dissolved	12		1.0	0.76	mg/L			10/15/21 14:31	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 18:26	1
Arsenic, Dissolved	0.00079	J	0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 18:26	1
Barium, Dissolved	0.022		0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 18:26	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 18:26	1
Boron, Dissolved	<0.039		0.080	0.039	mg/L		10/27/21 09:00	10/28/21 18:26	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 18:26	1
Calcium, Dissolved	3.9		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 18:26	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 18:26	1
Cobalt, Dissolved	0.00026	J	0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 18:26	1
Lead, Dissolved	0.00031	J	0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 18:26	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: SW-12-2 FF

Lab Sample ID: 180-128482-32

Date Collected: 10/13/21 13:50

Matrix: Water

Date Received: 10/14/21 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		10/27/21 09:00	10/28/21 18:26	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		10/27/21 09:00	10/28/21 18:26	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		10/27/21 09:00	10/28/21 18:26	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		10/27/21 09:00	10/28/21 18:26	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		10/20/21 06:22	10/21/21 12:50	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	190		10	10	mg/L			10/18/21 14:56	1

Client Sample ID: SW-13-1

Lab Sample ID: 180-128482-33

Date Collected: 10/13/21 12:26

Matrix: Water

Date Received: 10/14/21 09:15

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39		1.0	0.71	mg/L			10/15/21 14:49	1
Fluoride	0.028	J	0.20	0.026	mg/L			10/15/21 14:49	1
Sulfate	5.6		1.0	0.76	mg/L			10/15/21 14:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 18:29	1
Arsenic	0.00075	J	0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 18:29	1
Barium	0.019		0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 18:29	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 18:29	1
Boron	<0.039		0.080	0.039	mg/L		10/27/21 09:00	10/28/21 18:29	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 18:29	1
Calcium	2.6		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 18:29	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 18:29	1
Cobalt	0.00017	J	0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 18:29	1
Lead	0.00038	J	0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 18:29	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/27/21 09:00	10/28/21 18:29	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/27/21 09:00	10/28/21 18:29	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/27/21 09:00	10/28/21 18:29	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/27/21 09:00	10/28/21 18:29	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/20/21 06:22	10/21/21 12:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		10	10	mg/L			10/18/21 14:56	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: SW-13-1 FF

Lab Sample ID: 180-128482-34

Date Collected: 10/13/21 12:36

Matrix: Water

Date Received: 10/14/21 09:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	41		1.0	0.71	mg/L			10/15/21 15:07	1
Fluoride, Dissolved	0.048	J	0.10	0.026	mg/L			10/15/21 15:07	1
Sulfate, Dissolved	6.1		1.0	0.76	mg/L			10/15/21 15:07	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 18:33	1
Arsenic, Dissolved	0.00072	J	0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 18:33	1
Barium, Dissolved	0.019		0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 18:33	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 18:33	1
Boron, Dissolved	<0.039		0.080	0.039	mg/L		10/27/21 09:00	10/28/21 18:33	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 18:33	1
Calcium, Dissolved	2.8		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 18:33	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 18:33	1
Cobalt, Dissolved	0.00015	J	0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 18:33	1
Lead, Dissolved	0.00029	J	0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 18:33	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		10/27/21 09:00	10/28/21 18:33	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		10/27/21 09:00	10/28/21 18:33	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		10/27/21 09:00	10/28/21 18:33	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		10/27/21 09:00	10/28/21 18:33	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		10/20/21 06:22	10/21/21 12:55	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	99		10	10	mg/L			10/18/21 14:56	1

Client Sample ID: SW-14-1.5

Lab Sample ID: 180-128482-35

Date Collected: 10/13/21 09:59

Matrix: Water

Date Received: 10/14/21 09:15

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60		1.0	0.71	mg/L			10/15/21 16:01	1
Fluoride	0.026	J	0.20	0.026	mg/L			10/15/21 16:01	1
Sulfate	8.5		1.0	0.76	mg/L			10/15/21 16:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 18:36	1
Arsenic	0.00079	J	0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 18:36	1
Barium	0.022		0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 18:36	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 18:36	1
Boron	<0.039		0.080	0.039	mg/L		10/27/21 09:00	10/28/21 18:36	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 18:36	1
Calcium	3.3		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 18:36	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 18:36	1
Cobalt	0.00015	J	0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 18:36	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: SW-14-1.5

Lab Sample ID: 180-128482-35

Date Collected: 10/13/21 09:59

Matrix: Water

Date Received: 10/14/21 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00044	J	0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 18:36	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/27/21 09:00	10/28/21 18:36	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/27/21 09:00	10/28/21 18:36	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/27/21 09:00	10/28/21 18:36	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/27/21 09:00	10/28/21 18:36	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/20/21 06:22	10/21/21 12:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	200		10	10	mg/L			10/18/21 14:56	1

Client Sample ID: SW-14-1.5 FF

Lab Sample ID: 180-128482-36

Date Collected: 10/13/21 10:09

Matrix: Water

Date Received: 10/14/21 09:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	59		1.0	0.71	mg/L			10/15/21 16:19	1
Fluoride, Dissolved	<0.026		0.10	0.026	mg/L			10/15/21 16:19	1
Sulfate, Dissolved	8.4		1.0	0.76	mg/L			10/15/21 16:19	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 18:40	1
Arsenic, Dissolved	0.00061	J	0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 18:40	1
Barium, Dissolved	0.019		0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 18:40	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 18:40	1
Boron, Dissolved	<0.039		0.080	0.039	mg/L		10/27/21 09:00	10/28/21 18:40	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 18:40	1
Calcium, Dissolved	3.3		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 18:40	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 18:40	1
Cobalt, Dissolved	<0.00013		0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 18:40	1
Lead, Dissolved	0.00023	J	0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 18:40	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		10/27/21 09:00	10/28/21 18:40	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		10/27/21 09:00	10/28/21 18:40	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		10/27/21 09:00	10/28/21 18:40	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		10/27/21 09:00	10/28/21 18:40	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		10/20/21 06:22	10/21/21 12:57	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	150		10	10	mg/L			10/18/21 14:56	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Client Sample ID: SW-15-1.5

Lab Sample ID: 180-128482-37

Date Collected: 10/13/21 10:42

Matrix: Water

Date Received: 10/14/21 09:15

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67		1.0	0.71	mg/L			10/15/21 16:37	1
Fluoride	0.046	J	0.20	0.026	mg/L			10/15/21 16:37	1
Sulfate	10		1.0	0.76	mg/L			10/15/21 16:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 18:44	1
Arsenic	0.00074	J	0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 18:44	1
Barium	0.021		0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 18:44	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 18:44	1
Boron	<0.039		0.080	0.039	mg/L		10/27/21 09:00	10/28/21 18:44	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 18:44	1
Calcium	3.5		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 18:44	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 18:44	1
Cobalt	0.00015	J	0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 18:44	1
Lead	0.00045	J	0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 18:44	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/27/21 09:00	10/28/21 18:44	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/27/21 09:00	10/28/21 18:44	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/27/21 09:00	10/28/21 18:44	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/27/21 09:00	10/28/21 18:44	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/20/21 06:22	10/21/21 12:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	160		10	10	mg/L			10/18/21 14:56	1

Client Sample ID: SW-15-1.5 FF

Lab Sample ID: 180-128482-38

Date Collected: 10/13/21 10:52

Matrix: Water

Date Received: 10/14/21 09:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	69		1.0	0.71	mg/L			10/15/21 16:55	1
Fluoride, Dissolved	0.032	J	0.10	0.026	mg/L			10/15/21 16:55	1
Sulfate, Dissolved	10		1.0	0.76	mg/L			10/15/21 16:55	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 21:53	1
Arsenic, Dissolved	0.00059	J	0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 21:53	1
Barium, Dissolved	0.028	B	0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 21:53	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 21:53	1
Boron, Dissolved	<0.039	^+	0.080	0.039	mg/L		10/27/21 09:00	10/28/21 21:53	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 21:53	1
Calcium, Dissolved	3.9		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 21:53	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 21:53	1
Cobalt, Dissolved	<0.00013		0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 21:53	1
Lead, Dissolved	0.00016	J	0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 21:53	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 180-375369/42
Matrix: Water
Analysis Batch: 375369

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			10/15/21 20:11	1
Chloride, Dissolved	<0.71		1.0	0.71	mg/L			10/15/21 20:11	1
Fluoride	<0.026		0.10	0.026	mg/L			10/15/21 20:11	1
Fluoride, Dissolved	<0.026		0.10	0.026	mg/L			10/15/21 20:11	1
Sulfate	<0.76		1.0	0.76	mg/L			10/15/21 20:11	1
Sulfate, Dissolved	<0.76		1.0	0.76	mg/L			10/15/21 20:11	1

Lab Sample ID: MB 180-375369/6
Matrix: Water
Analysis Batch: 375369

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			10/15/21 09:18	1
Chloride, Dissolved	<0.71		1.0	0.71	mg/L			10/15/21 09:18	1
Fluoride	<0.026		0.20	0.026	mg/L			10/15/21 09:18	1
Fluoride, Dissolved	<0.026		0.20	0.026	mg/L			10/15/21 09:18	1
Sulfate	<0.76		1.0	0.76	mg/L			10/15/21 09:18	1
Sulfate, Dissolved	<0.76		1.0	0.76	mg/L			10/15/21 09:18	1

Lab Sample ID: LCS 180-375369/41
Matrix: Water
Analysis Batch: 375369

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	51.8		mg/L		104	90 - 110
Chloride, Dissolved	50.0	51.8		mg/L		104	90 - 110
Fluoride	2.50	2.51		mg/L		101	90 - 110
Fluoride, Dissolved	2.50	2.51		mg/L		101	90 - 110
Sulfate	50.0	50.5		mg/L		101	90 - 110
Sulfate, Dissolved	50.0	50.5		mg/L		101	90 - 110

Lab Sample ID: LCS 180-375369/5
Matrix: Water
Analysis Batch: 375369

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	50.6		mg/L		101	90 - 110
Chloride, Dissolved	50.0	50.6		mg/L		101	90 - 110
Fluoride	2.50	2.47		mg/L		99	90 - 110
Fluoride, Dissolved	2.50	2.47		mg/L		99	90 - 110
Sulfate	50.0	48.8		mg/L		98	90 - 110
Sulfate, Dissolved	50.0	48.8		mg/L		98	90 - 110

Lab Sample ID: 180-128482-1 MS
Matrix: Water
Analysis Batch: 375369

Client Sample ID: SW-1-1'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100		50.0	146		mg/L		93	90 - 110

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QC Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 180-128482-1 MS
Matrix: Water
Analysis Batch: 375369

Client Sample ID: SW-1-1'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.030	J	2.50	2.72		mg/L		108	90 - 110
Sulfate	15		50.0	66.4		mg/L		103	90 - 110

Lab Sample ID: 180-128482-1 MSD
Matrix: Water
Analysis Batch: 375369

Client Sample ID: SW-1-1'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100		50.0	150		mg/L		100	90 - 110	3	20
Fluoride	0.030	J	2.50	2.78		mg/L		110	90 - 110	2	20
Sulfate	15		50.0	67.9		mg/L		106	90 - 110	2	20

Lab Sample ID: MB 180-375373/6
Matrix: Water
Analysis Batch: 375373

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			10/15/21 12:46	1
Chloride, Dissolved	<0.71		1.0	0.71	mg/L			10/15/21 12:46	1
Fluoride	<0.026		0.20	0.026	mg/L			10/15/21 12:46	1
Fluoride, Dissolved	<0.026		0.20	0.026	mg/L			10/15/21 12:46	1
Sulfate	<0.76		1.0	0.76	mg/L			10/15/21 12:46	1
Sulfate, Dissolved	<0.76		1.0	0.76	mg/L			10/15/21 12:46	1

Lab Sample ID: LCS 180-375373/5
Matrix: Water
Analysis Batch: 375373

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	50.9		mg/L		102	90 - 110
Chloride, Dissolved	50.0	50.9		mg/L		102	90 - 110
Fluoride	2.50	2.58		mg/L		103	90 - 110
Fluoride, Dissolved	2.50	2.58		mg/L		103	90 - 110
Sulfate	50.0	50.5		mg/L		101	90 - 110
Sulfate, Dissolved	50.0	50.5		mg/L		101	90 - 110

Lab Sample ID: 180-128482-29 MS
Matrix: Water
Analysis Batch: 375373

Client Sample ID: SW-11-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	92	F1	50.0	137	F1	mg/L		88	90 - 110
Chloride, Dissolved	92	F1	50.0	137	F1	mg/L		88	90 - 110
Fluoride	0.032	J	2.50	2.70		mg/L		107	90 - 110
Fluoride, Dissolved	0.032	J	2.50	2.70		mg/L		107	90 - 110
Sulfate	14		50.0	64.9		mg/L		101	90 - 110
Sulfate, Dissolved	14		50.0	64.9		mg/L		101	90 - 110

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 180-128482-29 MSD
Matrix: Water
Analysis Batch: 375373

Client Sample ID: SW-11-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	92	F1	50.0	132	F1	mg/L		78	90 - 110	4	20
Chloride, Dissolved	92	F1	50.0	132	F1	mg/L		78	90 - 110	4	20
Fluoride	0.032	J	2.50	2.62		mg/L		103	90 - 110	3	20
Fluoride, Dissolved	0.032	J	2.50	2.62		mg/L		103	90 - 110	3	20
Sulfate	14		50.0	62.3		mg/L		96	90 - 110	4	20
Sulfate, Dissolved	14		50.0	62.3		mg/L		96	90 - 110	4	20

Lab Sample ID: 180-128482-39 MS
Matrix: Water
Analysis Batch: 375373

Client Sample ID: SW-16-1.5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	60	F1	50.0	102	F1	mg/L		84	90 - 110		
Chloride, Dissolved	60	F1	50.0	102	F1	mg/L		84	90 - 110		
Fluoride	0.036	J	2.50	2.61		mg/L		103	90 - 110		
Fluoride, Dissolved	0.036	J	2.50	2.61		mg/L		103	90 - 110		
Sulfate	7.4		50.0	56.3		mg/L		98	90 - 110		
Sulfate, Dissolved	7.4		50.0	56.3		mg/L		98	90 - 110		

Lab Sample ID: 180-128482-39 MSD
Matrix: Water
Analysis Batch: 375373

Client Sample ID: SW-16-1.5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	60	F1	50.0	107		mg/L		94	90 - 110	5	20
Chloride, Dissolved	60	F1	50.0	107		mg/L		94	90 - 110	5	20
Fluoride	0.036	J	2.50	2.75		mg/L		108	90 - 110	5	20
Fluoride, Dissolved	0.036	J	2.50	2.75		mg/L		108	90 - 110	5	20
Sulfate	7.4		50.0	59.0		mg/L		103	90 - 110	5	20
Sulfate, Dissolved	7.4		50.0	59.0		mg/L		103	90 - 110	5	20

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: 180-128482-16 MS
Matrix: Water
Analysis Batch: 375369

Client Sample ID: SW-5-1 FF
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride, Dissolved	26		50.0	75.7		mg/L		99	90 - 110		
Fluoride, Dissolved	<0.026		2.50	2.57		mg/L		103	90 - 110		
Sulfate, Dissolved	4.0		50.0	53.4		mg/L		99	90 - 110		

Lab Sample ID: 180-128482-16 MSD
Matrix: Water
Analysis Batch: 375369

Client Sample ID: SW-5-1 FF
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride, Dissolved	26		50.0	75.6		mg/L		99	90 - 110	0	20
Fluoride, Dissolved	<0.026		2.50	2.57		mg/L		103	90 - 110	0	20
Sulfate, Dissolved	4.0		50.0	53.4		mg/L		99	90 - 110	0	20

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

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

Lab Sample ID: LCS 180-376461/2-A
Matrix: Water
Analysis Batch: 376929

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 376461

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.250	0.256		mg/L		102	80 - 120
Antimony, Dissolved	0.250	0.256		mg/L		102	80 - 120
Arsenic	1.00	0.985		mg/L		98	80 - 120
Arsenic, Dissolved	1.00	0.985		mg/L		98	80 - 120
Barium	1.00	1.08		mg/L		108	80 - 120
Barium, Dissolved	1.00	1.08		mg/L		108	80 - 120
Beryllium	0.500	0.536		mg/L		107	80 - 120
Beryllium, Dissolved	0.500	0.536		mg/L		107	80 - 120
Boron	1.25	1.33	^+	mg/L		106	80 - 120
Boron, Dissolved	1.25	1.33	^+	mg/L		106	80 - 120
Cadmium	0.500	0.525		mg/L		105	80 - 120
Cadmium, Dissolved	0.500	0.525		mg/L		105	80 - 120
Calcium	25.0	25.2		mg/L		101	80 - 120
Calcium, Dissolved	25.0	25.2		mg/L		101	80 - 120
Chromium	0.500	0.528		mg/L		106	80 - 120
Chromium, Dissolved	0.500	0.528		mg/L		106	80 - 120
Cobalt	0.500	0.510		mg/L		102	80 - 120
Cobalt, Dissolved	0.500	0.510		mg/L		102	80 - 120
Lead	0.500	0.526		mg/L		105	80 - 120
Lead, Dissolved	0.500	0.526		mg/L		105	80 - 120
Lithium	0.500	0.527		mg/L		105	80 - 120
Lithium, Dissolved	0.500	0.527		mg/L		105	80 - 120
Molybdenum	0.500	0.530		mg/L		106	80 - 120
Molybdenum, Dissolved	0.500	0.530		mg/L		106	80 - 120
Selenium	1.00	1.03		mg/L		103	80 - 120
Selenium, Dissolved	1.00	1.03		mg/L		103	80 - 120
Thallium	1.00	1.10		mg/L		110	80 - 120
Thallium, Dissolved	1.00	1.10		mg/L		110	80 - 120

Lab Sample ID: MB 180-376462/1-A
Matrix: Water
Analysis Batch: 376929

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 376462

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 16:44	1
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		10/27/21 09:00	10/28/21 16:44	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 16:44	1
Arsenic, Dissolved	<0.00031		0.0010	0.00031	mg/L		10/27/21 09:00	10/28/21 16:44	1
Barium	<0.0016		0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 16:44	1
Barium, Dissolved	<0.0016		0.010	0.0016	mg/L		10/27/21 09:00	10/28/21 16:44	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 16:44	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		10/27/21 09:00	10/28/21 16:44	1
Boron	<0.039		0.080	0.039	mg/L		10/27/21 09:00	10/28/21 16:44	1
Boron, Dissolved	<0.039		0.080	0.039	mg/L		10/27/21 09:00	10/28/21 16:44	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 16:44	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/27/21 09:00	10/28/21 16:44	1
Calcium	<0.13		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 16:44	1
Calcium, Dissolved	<0.13		0.50	0.13	mg/L		10/27/21 09:00	10/28/21 16:44	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 16:44	1

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QC Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

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

Lab Sample ID: MB 180-376462/1-A
Matrix: Water
Analysis Batch: 376929

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 376462

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/27/21 09:00	10/28/21 16:44	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 16:44	1
Cobalt, Dissolved	<0.00013		0.0025	0.00013	mg/L		10/27/21 09:00	10/28/21 16:44	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 16:44	1
Lead, Dissolved	<0.00013		0.0010	0.00013	mg/L		10/27/21 09:00	10/28/21 16:44	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/27/21 09:00	10/28/21 16:44	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		10/27/21 09:00	10/28/21 16:44	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/27/21 09:00	10/28/21 16:44	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		10/27/21 09:00	10/28/21 16:44	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/27/21 09:00	10/28/21 16:44	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		10/27/21 09:00	10/28/21 16:44	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/27/21 09:00	10/28/21 16:44	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		10/27/21 09:00	10/28/21 16:44	1

Lab Sample ID: LCS 180-376462/2-A
Matrix: Water
Analysis Batch: 376929

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 376462

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.250	0.254		mg/L		102	80 - 120
Antimony, Dissolved	0.250	0.254		mg/L		102	80 - 120
Arsenic	1.00	0.996		mg/L		100	80 - 120
Arsenic, Dissolved	1.00	0.996		mg/L		100	80 - 120
Barium	1.00	1.06		mg/L		106	80 - 120
Barium, Dissolved	1.00	1.06		mg/L		106	80 - 120
Beryllium	0.500	0.516		mg/L		103	80 - 120
Beryllium, Dissolved	0.500	0.516		mg/L		103	80 - 120
Boron	1.25	1.28		mg/L		103	80 - 120
Boron, Dissolved	1.25	1.28		mg/L		103	80 - 120
Cadmium	0.500	0.515		mg/L		103	80 - 120
Cadmium, Dissolved	0.500	0.515		mg/L		103	80 - 120
Calcium	25.0	25.8		mg/L		103	80 - 120
Calcium, Dissolved	25.0	25.8		mg/L		103	80 - 120
Chromium	0.500	0.518		mg/L		104	80 - 120
Chromium, Dissolved	0.500	0.518		mg/L		104	80 - 120
Cobalt	0.500	0.513		mg/L		103	80 - 120
Cobalt, Dissolved	0.500	0.513		mg/L		103	80 - 120
Lead	0.500	0.521		mg/L		104	80 - 120
Lead, Dissolved	0.500	0.521		mg/L		104	80 - 120
Lithium	0.500	0.523		mg/L		105	80 - 120
Lithium, Dissolved	0.500	0.523		mg/L		105	80 - 120
Molybdenum	0.500	0.529		mg/L		106	80 - 120
Molybdenum, Dissolved	0.500	0.529		mg/L		106	80 - 120
Selenium	1.00	1.03		mg/L		103	80 - 120
Selenium, Dissolved	1.00	1.03		mg/L		103	80 - 120
Thallium	1.00	1.05		mg/L		105	80 - 120
Thallium, Dissolved	1.00	1.05		mg/L		105	80 - 120

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

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

Lab Sample ID: LCS 180-376463/2-A
Matrix: Water
Analysis Batch: 376929

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 376463

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, Dissolved	0.500	0.524		mg/L		105	80 - 120
Cobalt	0.500	0.507		mg/L		101	80 - 120
Cobalt, Dissolved	0.500	0.507		mg/L		101	80 - 120
Lead	0.500	0.521		mg/L		104	80 - 120
Lead, Dissolved	0.500	0.521		mg/L		104	80 - 120
Lithium	0.500	0.527		mg/L		105	80 - 120
Lithium, Dissolved	0.500	0.527		mg/L		105	80 - 120
Molybdenum	0.500	0.524		mg/L		105	80 - 120
Molybdenum, Dissolved	0.500	0.524		mg/L		105	80 - 120
Selenium	1.00	1.03		mg/L		103	80 - 120
Selenium, Dissolved	1.00	1.03		mg/L		103	80 - 120
Thallium	1.00	1.06		mg/L		106	80 - 120
Thallium, Dissolved	1.00	1.06		mg/L		106	80 - 120

Lab Sample ID: 180-128482-18 MS
Matrix: Water
Analysis Batch: 376929

Client Sample ID: SW-5-13 FF
Prep Type: Dissolved
Prep Batch: 376462

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.00038		0.250	0.252		mg/L		101	75 - 125
Antimony, Dissolved	<0.00038		0.250	0.252		mg/L		101	75 - 125
Arsenic	0.00073	J	1.00	0.992		mg/L		99	75 - 125
Arsenic, Dissolved	0.00073	J	1.00	0.992		mg/L		99	75 - 125
Barium	0.026		1.00	1.09		mg/L		106	75 - 125
Barium, Dissolved	0.026		1.00	1.09		mg/L		106	75 - 125
Beryllium	<0.00018		0.500	0.511		mg/L		102	75 - 125
Beryllium, Dissolved	<0.00018		0.500	0.511		mg/L		102	75 - 125
Boron	0.075	J	1.25	1.27		mg/L		96	75 - 125
Boron, Dissolved	0.075	J	1.25	1.27		mg/L		96	75 - 125
Cadmium	<0.00022		0.500	0.516		mg/L		103	75 - 125
Cadmium, Dissolved	<0.00022		0.500	0.516		mg/L		103	75 - 125
Calcium	1.8		25.0	27.2		mg/L		102	75 - 125
Calcium, Dissolved	1.8		25.0	27.2		mg/L		102	75 - 125
Chromium	<0.0015		0.500	0.508		mg/L		102	75 - 125
Chromium, Dissolved	<0.0015		0.500	0.508		mg/L		102	75 - 125
Cobalt	0.00041	J	0.500	0.509		mg/L		102	75 - 125
Cobalt, Dissolved	0.00041	J	0.500	0.509		mg/L		102	75 - 125
Lead	0.00037	J	0.500	0.523		mg/L		104	75 - 125
Lead, Dissolved	0.00037	J	0.500	0.523		mg/L		104	75 - 125
Lithium	<0.0034		0.500	0.506		mg/L		101	75 - 125
Lithium, Dissolved	<0.0034		0.500	0.506		mg/L		101	75 - 125
Molybdenum	<0.00061		0.500	0.524		mg/L		105	75 - 125
Molybdenum, Dissolved	<0.00061		0.500	0.524		mg/L		105	75 - 125
Selenium	<0.0015		1.00	1.03		mg/L		103	75 - 125
Selenium, Dissolved	<0.0015		1.00	1.03		mg/L		103	75 - 125
Thallium	<0.00015		1.00	1.05		mg/L		105	75 - 125
Thallium, Dissolved	<0.00015		1.00	1.05		mg/L		105	75 - 125

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

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

Lab Sample ID: MB 180-375829/1-A
Matrix: Water
Analysis Batch: 376147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 375829

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		10/19/21 13:48	10/21/21 12:03	1
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		10/19/21 13:48	10/21/21 12:03	1

Lab Sample ID: LCS 180-375829/2-A
Matrix: Water
Analysis Batch: 376147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375829

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	2.60	2.75		ug/L		106	80 - 120
Mercury, Dissolved	2.60	2.75		ug/L		106	80 - 120

Lab Sample ID: MB 180-375890/1-A
Matrix: Water
Analysis Batch: 376147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 375890

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		10/20/21 06:22	10/21/21 12:31	1
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		10/20/21 06:22	10/21/21 12:31	1

Lab Sample ID: LCS 180-375890/2-A
Matrix: Water
Analysis Batch: 376147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375890

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	2.50	2.63		ug/L		105	80 - 120
Mercury, Dissolved	2.50	2.63		ug/L		105	80 - 120

Lab Sample ID: 180-128482-21 MS
Matrix: Water
Analysis Batch: 376147

Client Sample ID: SW-6-9.5
Prep Type: Total/NA
Prep Batch: 375890

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00013		0.00100	0.00102		mg/L		102	75 - 125
Mercury, Dissolved	<0.00013		0.00100	0.00102		mg/L		102	75 - 125

Lab Sample ID: 180-128482-21 MSD
Matrix: Water
Analysis Batch: 376147

Client Sample ID: SW-6-9.5
Prep Type: Total/NA
Prep Batch: 375890

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Mercury	<0.00013		0.00100	0.00104		mg/L		104	75 - 125	1	20
Mercury, Dissolved	<0.00013		0.00100	0.00104		mg/L		104	75 - 125	1	20

Lab Sample ID: MB 180-375891/1-A
Matrix: Water
Analysis Batch: 376147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 375891

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/20/21 06:24	10/21/21 13:01	1

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

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

Lab Sample ID: LCS 180-375891/2-A
Matrix: Water
Analysis Batch: 376147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375891
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00259		mg/L		104	80 - 120

Lab Sample ID: 180-128482-10 MS
Matrix: Water
Analysis Batch: 376147

Client Sample ID: SW-2-1' FF
Prep Type: Dissolved
Prep Batch: 375784
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.13		1.00	1.04		ug/L		104	75 - 125
Mercury, Dissolved	<0.13		1.00	1.04		ug/L		104	75 - 125

Lab Sample ID: 180-128482-10 MSD
Matrix: Water
Analysis Batch: 376147

Client Sample ID: SW-2-1' FF
Prep Type: Dissolved
Prep Batch: 375784
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.13		1.00	1.10		ug/L		110	75 - 125	6	20
Mercury, Dissolved	<0.13		1.00	1.10		ug/L		110	75 - 125	6	20

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

Lab Sample ID: MB 180-375448/2
Matrix: Water
Analysis Batch: 375448

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		10	10	mg/L			10/15/21 12:57	1
Total Dissolved Solids Field Filtered	<10		10	10	mg/L			10/15/21 12:57	1

Lab Sample ID: LCS 180-375448/1
Matrix: Water
Analysis Batch: 375448

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Dissolved Solids	422	366		mg/L		87	80 - 120
Total Dissolved Solids Field Filtered	422	366		mg/L		87	80 - 120

Lab Sample ID: MB 180-375676/2
Matrix: Water
Analysis Batch: 375676

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		10	10	mg/L			10/18/21 13:56	1
Total Dissolved Solids Field Filtered	<10		10	10	mg/L			10/18/21 13:56	1

QC Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

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

Lab Sample ID: LCS 180-375676/1
Matrix: Water
Analysis Batch: 375676

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	422	432		mg/L		102	80 - 120
Total Dissolved Solids Field Filtered	422	432		mg/L		102	80 - 120

Lab Sample ID: MB 180-375688/2
Matrix: Water
Analysis Batch: 375688

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		10	10	mg/L			10/18/21 14:56	1
Total Dissolved Solids Field Filtered	<10		10	10	mg/L			10/18/21 14:56	1

Lab Sample ID: LCS 180-375688/1
Matrix: Water
Analysis Batch: 375688

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	422	390		mg/L		92	80 - 120
Total Dissolved Solids Field Filtered	422	390		mg/L		92	80 - 120

Lab Sample ID: MB 180-375868/2
Matrix: Water
Analysis Batch: 375868

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		10	10	mg/L			10/19/21 19:14	1
Total Dissolved Solids Field Filtered	<10		10	10	mg/L			10/19/21 19:14	1

Lab Sample ID: LCS 180-375868/1
Matrix: Water
Analysis Batch: 375868

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	422	432		mg/L		102	80 - 120
Total Dissolved Solids Field Filtered	422	432		mg/L		102	80 - 120

Lab Sample ID: MB 180-375869/2
Matrix: Water
Analysis Batch: 375869

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		10	10	mg/L			10/19/21 19:22	1
Total Dissolved Solids Field Filtered	<10		10	10	mg/L			10/19/21 19:22	1

QC Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

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

Lab Sample ID: LCS 180-375869/1
Matrix: Water
Analysis Batch: 375869

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	422	418		mg/L		99	80 - 120
Total Dissolved Solids Field Filtered	422	418		mg/L		99	80 - 120

Lab Sample ID: 180-128482-10 DU
Matrix: Water
Analysis Batch: 375676

Client Sample ID: SW-2-1' FF
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	220		230		mg/L		3	10
Total Dissolved Solids Field Filtered	220		230		mg/L		3	10

Lab Sample ID: 180-128482-20 DU
Matrix: Water
Analysis Batch: 375688

Client Sample ID: SW-6-1 FF
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	110		104		mg/L		2	10
Total Dissolved Solids Field Filtered	110		104		mg/L		2	10

Lab Sample ID: 180-128482-30 DU
Matrix: Water
Analysis Batch: 375688

Client Sample ID: SW-11-2 FF
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	210		204		mg/L		4	10
Total Dissolved Solids Field Filtered	210		204		mg/L		4	10

Lab Sample ID: 180-128482-46 DU
Matrix: Water
Analysis Batch: 375869

Client Sample ID: DUP-01 FF
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	190		188		mg/L		0	10
Total Dissolved Solids Field Filtered	190		188		mg/L		0	10

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

HPLC/IC

Analysis Batch: 375369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128482-1	SW-1-1'	Total/NA	Water	300.0	
180-128482-2	SW-1-1' FF	Dissolved	Water	EPA 300.0 R2.1	
180-128482-3	SW-1-7'	Total/NA	Water	300.0	
180-128482-4	SW-1-7' FF	Dissolved	Water	EPA 300.0 R2.1	
180-128482-5	SW-3-1'	Total/NA	Water	300.0	
180-128482-6	SW-3-1' FF	Dissolved	Water	EPA 300.0 R2.1	
180-128482-7	SW-3-4'	Total/NA	Water	300.0	
180-128482-8	SW-3-4' FF	Dissolved	Water	EPA 300.0 R2.1	
180-128482-9	SW-2-1'	Total/NA	Water	300.0	
180-128482-10	SW-2-1' FF	Dissolved	Water	EPA 300.0 R2.1	
180-128482-11	SW-2-7'	Total/NA	Water	300.0	
180-128482-12	SW-2-7' FF	Dissolved	Water	EPA 300.0 R2.1	
180-128482-13	SW-4-1.5	Total/NA	Water	300.0	
180-128482-14	SW-4-1.5 FF	Dissolved	Water	EPA 300.0 R2.1	
180-128482-15	SW-5-1	Total/NA	Water	300.0	
180-128482-16	SW-5-1 FF	Dissolved	Water	EPA 300.0 R2.1	
180-128482-17	SW-5-13	Total/NA	Water	300.0	
180-128482-18	SW-5-13 FF	Dissolved	Water	EPA 300.0 R2.1	
180-128482-19	SW-6-1	Total/NA	Water	300.0	
180-128482-20	SW-6-1 FF	Dissolved	Water	EPA 300.0 R2.1	
180-128482-21	SW-6-9.5	Total/NA	Water	300.0	
180-128482-22	SW-6-9.5 FF	Dissolved	Water	EPA 300.0 R2.1	
180-128482-23	SW-9-1	Total/NA	Water	300.0	
180-128482-24	SW-9-1 FF	Dissolved	Water	EPA 300.0 R2.1	
180-128482-25	SW-9-4	Total/NA	Water	300.0	
180-128482-26	SW-9-4 FF	Dissolved	Water	EPA 300.0 R2.1	
180-128482-27	SW-10-2	Total/NA	Water	300.0	
180-128482-28	SW-10-2 FF	Dissolved	Water	EPA 300.0 R2.1	
MB 180-375369/42	Method Blank	Total/NA	Water	300.0	
MB 180-375369/6	Method Blank	Total/NA	Water	300.0	
LCS 180-375369/41	Lab Control Sample	Total/NA	Water	300.0	
LCS 180-375369/5	Lab Control Sample	Total/NA	Water	300.0	
180-128482-1 MS	SW-1-1'	Total/NA	Water	300.0	
180-128482-1 MSD	SW-1-1'	Total/NA	Water	300.0	
180-128482-16 MS	SW-5-1 FF	Dissolved	Water	EPA 300.0 R2.1	
180-128482-16 MSD	SW-5-1 FF	Dissolved	Water	EPA 300.0 R2.1	
180-128482-20 MS	SW-6-1 FF	Dissolved	Water	EPA 300.0 R2.1	
180-128482-20 MSD	SW-6-1 FF	Dissolved	Water	EPA 300.0 R2.1	

Analysis Batch: 375373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128482-29	SW-11-2	Total/NA	Water	300.0	
180-128482-30	SW-11-2 FF	Dissolved	Water	EPA 300.0 R2.1	
180-128482-31	SW-12-2	Total/NA	Water	300.0	
180-128482-32	SW-12-2 FF	Dissolved	Water	EPA 300.0 R2.1	
180-128482-33	SW-13-1	Total/NA	Water	300.0	
180-128482-34	SW-13-1 FF	Dissolved	Water	EPA 300.0 R2.1	
180-128482-35	SW-14-1.5	Total/NA	Water	300.0	
180-128482-36	SW-14-1.5 FF	Dissolved	Water	EPA 300.0 R2.1	
180-128482-37	SW-15-1.5	Total/NA	Water	300.0	
180-128482-38	SW-15-1.5 FF	Dissolved	Water	EPA 300.0 R2.1	

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QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

HPLC/IC (Continued)

Analysis Batch: 375373 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128482-39	SW-16-1.5	Total/NA	Water	300.0	
180-128482-40	SW-16-1.5 FF	Dissolved	Water	EPA 300.0 R2.1	
180-128482-41	SW-17-1	Total/NA	Water	300.0	
180-128482-42	SW-17-1 FF	Dissolved	Water	EPA 300.0 R2.1	
180-128482-43	EB-01	Total/NA	Water	300.0	
180-128482-44	EB-02	Dissolved	Water	EPA 300.0 R2.1	
180-128482-45	DUP-01	Total/NA	Water	300.0	
180-128482-46	DUP-01 FF	Dissolved	Water	EPA 300.0 R2.1	
180-128482-47	DUP-02	Total/NA	Water	300.0	
180-128482-48	DUP-02 FF	Dissolved	Water	EPA 300.0 R2.1	
MB 180-375373/6	Method Blank	Total/NA	Water	300.0	
LCS 180-375373/5	Lab Control Sample	Total/NA	Water	300.0	
180-128482-29 MS	SW-11-2	Total/NA	Water	300.0	
180-128482-29 MSD	SW-11-2	Total/NA	Water	300.0	
180-128482-39 MS	SW-16-1.5	Total/NA	Water	300.0	
180-128482-39 MSD	SW-16-1.5	Total/NA	Water	300.0	

Metals

Prep Batch: 375784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128482-1	SW-1-1'	Total/NA	Water	7470A	
180-128482-2	SW-1-1' FF	Dissolved	Water	7470A	
180-128482-3	SW-1-7'	Total/NA	Water	7470A	
180-128482-4	SW-1-7' FF	Dissolved	Water	7470A	
180-128482-5	SW-3-1'	Total/NA	Water	7470A	
180-128482-6	SW-3-1' FF	Dissolved	Water	7470A	
180-128482-7	SW-3-4'	Total/NA	Water	7470A	
180-128482-8	SW-3-4' FF	Dissolved	Water	7470A	
180-128482-9	SW-2-1'	Total/NA	Water	7470A	
180-128482-10	SW-2-1' FF	Dissolved	Water	7470A	
180-128482-11	SW-2-7'	Total/NA	Water	7470A	
180-128482-12	SW-2-7' FF	Dissolved	Water	7470A	
180-128482-13	SW-4-1.5	Total/NA	Water	7470A	
180-128482-14	SW-4-1.5 FF	Dissolved	Water	7470A	
180-128482-15	SW-5-1	Total/NA	Water	7470A	
180-128482-16	SW-5-1 FF	Dissolved	Water	7470A	
180-128482-17	SW-5-13	Total/NA	Water	7470A	
180-128482-18	SW-5-13 FF	Dissolved	Water	7470A	
180-128482-19	SW-6-1	Total/NA	Water	7470A	
MB 180-375784/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-375784/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-128482-10 MS	SW-2-1' FF	Dissolved	Water	7470A	
180-128482-10 MSD	SW-2-1' FF	Dissolved	Water	7470A	

Prep Batch: 375829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128482-40	SW-16-1.5 FF	Dissolved	Water	7470A	
180-128482-41	SW-17-1	Total/NA	Water	7470A	
180-128482-42	SW-17-1 FF	Dissolved	Water	7470A	
180-128482-43	EB-01	Total/NA	Water	7470A	

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QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Metals (Continued)

Prep Batch: 375829 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128482-44	EB-02	Dissolved	Water	7470A	
180-128482-46	DUP-01 FF	Dissolved	Water	7470A	
180-128482-47	DUP-02	Total/NA	Water	7470A	
180-128482-48	DUP-02 FF	Dissolved	Water	7470A	
MB 180-375829/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-375829/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 375890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128482-20	SW-6-1 FF	Dissolved	Water	7470A	
180-128482-21	SW-6-9.5	Total/NA	Water	7470A	
180-128482-22	SW-6-9.5 FF	Dissolved	Water	7470A	
180-128482-23	SW-9-1	Total/NA	Water	7470A	
180-128482-24	SW-9-1 FF	Dissolved	Water	7470A	
180-128482-25	SW-9-4	Total/NA	Water	7470A	
180-128482-26	SW-9-4 FF	Dissolved	Water	7470A	
180-128482-27	SW-10-2	Total/NA	Water	7470A	
180-128482-28	SW-10-2 FF	Dissolved	Water	7470A	
180-128482-29	SW-11-2	Total/NA	Water	7470A	
180-128482-30	SW-11-2 FF	Dissolved	Water	7470A	
180-128482-31	SW-12-2	Total/NA	Water	7470A	
180-128482-32	SW-12-2 FF	Dissolved	Water	7470A	
180-128482-33	SW-13-1	Total/NA	Water	7470A	
180-128482-34	SW-13-1 FF	Dissolved	Water	7470A	
180-128482-35	SW-14-1.5	Total/NA	Water	7470A	
180-128482-36	SW-14-1.5 FF	Dissolved	Water	7470A	
180-128482-37	SW-15-1.5	Total/NA	Water	7470A	
180-128482-38	SW-15-1.5 FF	Dissolved	Water	7470A	
180-128482-39	SW-16-1.5	Total/NA	Water	7470A	
MB 180-375890/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-375890/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-128482-21 MS	SW-6-9.5	Total/NA	Water	7470A	
180-128482-21 MSD	SW-6-9.5	Total/NA	Water	7470A	

Prep Batch: 375891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128482-45	DUP-01	Total/NA	Water	7470A	
MB 180-375891/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-375891/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 376147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128482-1	SW-1-1'	Total/NA	Water	EPA 7470A	375784
180-128482-2	SW-1-1' FF	Dissolved	Water	EPA 7470A	375784
180-128482-3	SW-1-7'	Total/NA	Water	EPA 7470A	375784
180-128482-4	SW-1-7' FF	Dissolved	Water	EPA 7470A	375784
180-128482-5	SW-3-1'	Total/NA	Water	EPA 7470A	375784
180-128482-6	SW-3-1' FF	Dissolved	Water	EPA 7470A	375784
180-128482-7	SW-3-4'	Total/NA	Water	EPA 7470A	375784
180-128482-8	SW-3-4' FF	Dissolved	Water	EPA 7470A	375784
180-128482-9	SW-2-1'	Total/NA	Water	EPA 7470A	375784

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QC Association Summary

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Metals (Continued)

Analysis Batch: 376147 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128482-10	SW-2-1' FF	Dissolved	Water	EPA 7470A	375784
180-128482-11	SW-2-7'	Total/NA	Water	EPA 7470A	375784
180-128482-12	SW-2-7' FF	Dissolved	Water	EPA 7470A	375784
180-128482-13	SW-4-1.5	Total/NA	Water	EPA 7470A	375784
180-128482-14	SW-4-1.5 FF	Dissolved	Water	EPA 7470A	375784
180-128482-15	SW-5-1	Total/NA	Water	EPA 7470A	375784
180-128482-16	SW-5-1 FF	Dissolved	Water	EPA 7470A	375784
180-128482-17	SW-5-13	Total/NA	Water	EPA 7470A	375784
180-128482-18	SW-5-13 FF	Dissolved	Water	EPA 7470A	375784
180-128482-19	SW-6-1	Total/NA	Water	EPA 7470A	375784
180-128482-20	SW-6-1 FF	Dissolved	Water	EPA 7470A	375890
180-128482-21	SW-6-9.5	Total/NA	Water	EPA 7470A	375890
180-128482-22	SW-6-9.5 FF	Dissolved	Water	EPA 7470A	375890
180-128482-23	SW-9-1	Total/NA	Water	EPA 7470A	375890
180-128482-24	SW-9-1 FF	Dissolved	Water	EPA 7470A	375890
180-128482-25	SW-9-4	Total/NA	Water	EPA 7470A	375890
180-128482-26	SW-9-4 FF	Dissolved	Water	EPA 7470A	375890
180-128482-27	SW-10-2	Total/NA	Water	EPA 7470A	375890
180-128482-28	SW-10-2 FF	Dissolved	Water	EPA 7470A	375890
180-128482-29	SW-11-2	Total/NA	Water	EPA 7470A	375890
180-128482-30	SW-11-2 FF	Dissolved	Water	EPA 7470A	375890
180-128482-31	SW-12-2	Total/NA	Water	EPA 7470A	375890
180-128482-32	SW-12-2 FF	Dissolved	Water	EPA 7470A	375890
180-128482-33	SW-13-1	Total/NA	Water	EPA 7470A	375890
180-128482-34	SW-13-1 FF	Dissolved	Water	EPA 7470A	375890
180-128482-35	SW-14-1.5	Total/NA	Water	EPA 7470A	375890
180-128482-36	SW-14-1.5 FF	Dissolved	Water	EPA 7470A	375890
180-128482-37	SW-15-1.5	Total/NA	Water	EPA 7470A	375890
180-128482-38	SW-15-1.5 FF	Dissolved	Water	EPA 7470A	375890
180-128482-39	SW-16-1.5	Total/NA	Water	EPA 7470A	375890
180-128482-40	SW-16-1.5 FF	Dissolved	Water	EPA 7470A	375829
180-128482-41	SW-17-1	Total/NA	Water	EPA 7470A	375829
180-128482-42	SW-17-1 FF	Dissolved	Water	EPA 7470A	375829
180-128482-43	EB-01	Total/NA	Water	EPA 7470A	375829
180-128482-44	EB-02	Dissolved	Water	EPA 7470A	375829
180-128482-45	DUP-01	Total/NA	Water	EPA 7470A	375891
180-128482-46	DUP-01 FF	Dissolved	Water	EPA 7470A	375829
180-128482-47	DUP-02	Total/NA	Water	EPA 7470A	375829
180-128482-48	DUP-02 FF	Dissolved	Water	EPA 7470A	375829
MB 180-375784/1-A	Method Blank	Total/NA	Water	EPA 7470A	375784
MB 180-375829/1-A	Method Blank	Total/NA	Water	EPA 7470A	375829
MB 180-375890/1-A	Method Blank	Total/NA	Water	EPA 7470A	375890
MB 180-375891/1-A	Method Blank	Total/NA	Water	EPA 7470A	375891
LCS 180-375784/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	375784
LCS 180-375829/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	375829
LCS 180-375890/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	375890
LCS 180-375891/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	375891
180-128482-10 MS	SW-2-1' FF	Dissolved	Water	EPA 7470A	375784
180-128482-10 MSD	SW-2-1' FF	Dissolved	Water	EPA 7470A	375784
180-128482-21 MS	SW-6-9.5	Total/NA	Water	EPA 7470A	375890
180-128482-21 MSD	SW-6-9.5	Total/NA	Water	EPA 7470A	375890

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Metals

Prep Batch: 376461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128482-38	SW-15-1.5 FF	Dissolved	Water	3005A	
180-128482-39	SW-16-1.5	Total Recoverable	Water	3005A	
180-128482-40	SW-16-1.5 FF	Dissolved	Water	3005A	
180-128482-41	SW-17-1	Total Recoverable	Water	3005A	
180-128482-42	SW-17-1 FF	Dissolved	Water	3005A	
180-128482-43	EB-01	Total Recoverable	Water	3005A	
180-128482-44	EB-02	Dissolved	Water	3005A	
180-128482-45	DUP-01	Total Recoverable	Water	3005A	
180-128482-46	DUP-01 FF	Dissolved	Water	3005A	
180-128482-47	DUP-02	Total Recoverable	Water	3005A	
180-128482-48	DUP-02 FF	Dissolved	Water	3005A	
MB 180-376461/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-376461/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 376462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128482-18	SW-5-13 FF	Dissolved	Water	3005A	
180-128482-19	SW-6-1	Total Recoverable	Water	3005A	
180-128482-20	SW-6-1 FF	Dissolved	Water	3005A	
180-128482-21	SW-6-9.5	Total Recoverable	Water	3005A	
180-128482-22	SW-6-9.5 FF	Dissolved	Water	3005A	
180-128482-23	SW-9-1	Total Recoverable	Water	3005A	
180-128482-24	SW-9-1 FF	Dissolved	Water	3005A	
180-128482-25	SW-9-4	Total Recoverable	Water	3005A	
180-128482-26	SW-9-4 FF	Dissolved	Water	3005A	
180-128482-27	SW-10-2	Total Recoverable	Water	3005A	
180-128482-28	SW-10-2 FF	Dissolved	Water	3005A	
180-128482-29	SW-11-2	Total Recoverable	Water	3005A	
180-128482-30	SW-11-2 FF	Dissolved	Water	3005A	
180-128482-31	SW-12-2	Total Recoverable	Water	3005A	
180-128482-32	SW-12-2 FF	Dissolved	Water	3005A	
180-128482-33	SW-13-1	Total Recoverable	Water	3005A	
180-128482-34	SW-13-1 FF	Dissolved	Water	3005A	
180-128482-35	SW-14-1.5	Total Recoverable	Water	3005A	
180-128482-36	SW-14-1.5 FF	Dissolved	Water	3005A	
180-128482-37	SW-15-1.5	Total Recoverable	Water	3005A	
MB 180-376462/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-376462/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-128482-18 MS	SW-5-13 FF	Dissolved	Water	3005A	
180-128482-18 MSD	SW-5-13 FF	Dissolved	Water	3005A	

Prep Batch: 376463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128482-1	SW-1-1'	Total Recoverable	Water	3005A	
180-128482-2	SW-1-1' FF	Dissolved	Water	3005A	
180-128482-3	SW-1-7'	Total Recoverable	Water	3005A	
180-128482-4	SW-1-7' FF	Dissolved	Water	3005A	
180-128482-5	SW-3-1'	Total Recoverable	Water	3005A	
180-128482-6	SW-3-1' FF	Dissolved	Water	3005A	
180-128482-7	SW-3-4'	Total Recoverable	Water	3005A	
180-128482-8	SW-3-4' FF	Dissolved	Water	3005A	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

Metals (Continued)

Prep Batch: 376463 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128482-9	SW-2-1'	Total Recoverable	Water	3005A	
180-128482-10	SW-2-1' FF	Dissolved	Water	3005A	
180-128482-11	SW-2-7'	Total Recoverable	Water	3005A	
180-128482-12	SW-2-7' FF	Dissolved	Water	3005A	
180-128482-13	SW-4-1.5	Total Recoverable	Water	3005A	
180-128482-14	SW-4-1.5 FF	Dissolved	Water	3005A	
180-128482-15	SW-5-1	Total Recoverable	Water	3005A	
180-128482-16	SW-5-1 FF	Dissolved	Water	3005A	
180-128482-17	SW-5-13	Total Recoverable	Water	3005A	
MB 180-376463/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-376463/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 376929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128482-1	SW-1-1'	Total Recoverable	Water	EPA 6020B	376463
180-128482-2	SW-1-1' FF	Dissolved	Water	EPA 6020B	376463
180-128482-3	SW-1-7'	Total Recoverable	Water	EPA 6020B	376463
180-128482-4	SW-1-7' FF	Dissolved	Water	EPA 6020B	376463
180-128482-5	SW-3-1'	Total Recoverable	Water	EPA 6020B	376463
180-128482-6	SW-3-1' FF	Dissolved	Water	EPA 6020B	376463
180-128482-7	SW-3-4'	Total Recoverable	Water	EPA 6020B	376463
180-128482-8	SW-3-4' FF	Dissolved	Water	EPA 6020B	376463
180-128482-9	SW-2-1'	Total Recoverable	Water	EPA 6020B	376463
180-128482-10	SW-2-1' FF	Dissolved	Water	EPA 6020B	376463
180-128482-11	SW-2-7'	Total Recoverable	Water	EPA 6020B	376463
180-128482-12	SW-2-7' FF	Dissolved	Water	EPA 6020B	376463
180-128482-13	SW-4-1.5	Total Recoverable	Water	EPA 6020B	376463
180-128482-14	SW-4-1.5 FF	Dissolved	Water	EPA 6020B	376463
180-128482-15	SW-5-1	Total Recoverable	Water	EPA 6020B	376463
180-128482-16	SW-5-1 FF	Dissolved	Water	EPA 6020B	376463
180-128482-17	SW-5-13	Total Recoverable	Water	EPA 6020B	376463
180-128482-18	SW-5-13 FF	Dissolved	Water	EPA 6020B	376462
180-128482-19	SW-6-1	Total Recoverable	Water	EPA 6020B	376462
180-128482-20	SW-6-1 FF	Dissolved	Water	EPA 6020B	376462
180-128482-21	SW-6-9.5	Total Recoverable	Water	EPA 6020B	376462
180-128482-22	SW-6-9.5 FF	Dissolved	Water	EPA 6020B	376462
180-128482-23	SW-9-1	Total Recoverable	Water	EPA 6020B	376462
180-128482-24	SW-9-1 FF	Dissolved	Water	EPA 6020B	376462
180-128482-25	SW-9-4	Total Recoverable	Water	EPA 6020B	376462
180-128482-26	SW-9-4 FF	Dissolved	Water	EPA 6020B	376462
180-128482-27	SW-10-2	Total Recoverable	Water	EPA 6020B	376462
180-128482-28	SW-10-2 FF	Dissolved	Water	EPA 6020B	376462
180-128482-29	SW-11-2	Total Recoverable	Water	EPA 6020B	376462
180-128482-30	SW-11-2 FF	Dissolved	Water	EPA 6020B	376462
180-128482-31	SW-12-2	Total Recoverable	Water	EPA 6020B	376462
180-128482-32	SW-12-2 FF	Dissolved	Water	EPA 6020B	376462
180-128482-33	SW-13-1	Total Recoverable	Water	EPA 6020B	376462
180-128482-34	SW-13-1 FF	Dissolved	Water	EPA 6020B	376462
180-128482-35	SW-14-1.5	Total Recoverable	Water	EPA 6020B	376462
180-128482-36	SW-14-1.5 FF	Dissolved	Water	EPA 6020B	376462
180-128482-37	SW-15-1.5	Total Recoverable	Water	EPA 6020B	376462

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-1

General Chemistry

Analysis Batch: 375688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128482-20	SW-6-1 FF	Dissolved	Water	SM 2540C	
180-128482-21	SW-6-9.5	Total/NA	Water	SM 2540C	
180-128482-22	SW-6-9.5 FF	Dissolved	Water	SM 2540C	
180-128482-23	SW-9-1	Total/NA	Water	SM 2540C	
180-128482-24	SW-9-1 FF	Dissolved	Water	SM 2540C	
180-128482-25	SW-9-4	Total/NA	Water	SM 2540C	
180-128482-26	SW-9-4 FF	Dissolved	Water	SM 2540C	
180-128482-27	SW-10-2	Total/NA	Water	SM 2540C	
180-128482-28	SW-10-2 FF	Dissolved	Water	SM 2540C	
180-128482-29	SW-11-2	Total/NA	Water	SM 2540C	
180-128482-30	SW-11-2 FF	Dissolved	Water	SM 2540C	
180-128482-31	SW-12-2	Total/NA	Water	SM 2540C	
180-128482-32	SW-12-2 FF	Dissolved	Water	SM 2540C	
180-128482-33	SW-13-1	Total/NA	Water	SM 2540C	
180-128482-34	SW-13-1 FF	Dissolved	Water	SM 2540C	
180-128482-35	SW-14-1.5	Total/NA	Water	SM 2540C	
180-128482-36	SW-14-1.5 FF	Dissolved	Water	SM 2540C	
180-128482-37	SW-15-1.5	Total/NA	Water	SM 2540C	
180-128482-38	SW-15-1.5 FF	Dissolved	Water	SM 2540C	
180-128482-39	SW-16-1.5	Total/NA	Water	SM 2540C	
MB 180-375688/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-375688/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-128482-20 DU	SW-6-1 FF	Dissolved	Water	SM 2540C	
180-128482-30 DU	SW-11-2 FF	Dissolved	Water	SM 2540C	

Analysis Batch: 375868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128482-40	SW-16-1.5 FF	Dissolved	Water	SM 2540C	
180-128482-41	SW-17-1	Total/NA	Water	SM 2540C	
180-128482-42	SW-17-1 FF	Dissolved	Water	SM 2540C	
180-128482-43	EB-01	Total/NA	Water	SM 2540C	
180-128482-44	EB-02	Dissolved	Water	SM 2540C	
180-128482-45	DUP-01	Total/NA	Water	SM 2540C	
MB 180-375868/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-375868/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 375869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128482-46	DUP-01 FF	Dissolved	Water	SM 2540C	
180-128482-47	DUP-02	Total/NA	Water	SM 2540C	
180-128482-48	DUP-02 FF	Dissolved	Water	SM 2540C	
MB 180-375869/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-375869/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-128482-46 DU	DUP-01 FF	Dissolved	Water	SM 2540C	

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

244-ATLANTA

eurofins Environment Testing America

Client Information		Sampler: <i>Ride Hendricks / Surles - Evans</i>		Lab PM: Brown, Shali		Carrier Tracking No(s):		COC No:					
Client Contact: SCS Contacts		Phone: <i>450-336-0192</i>		E-Mail: shali.brown@eurofinset.com				Page: <i>5 of 5</i>					
Company: SCS		Address: 3535 Colonnade Pkwy Bin S 530 EG City: Birmingham State, Zip: AL, 35243		Due Date Requested:		TAT Requested (days):		Job #:					
Phone: 205-992-6283		Email: SCS Contacts		Project Name: Plant Watson		Project #: 18020186		Preservation Codes:					
Site: Ash Pond		SSOW#:		PO#: SCS10382606		WO#:		Other:					
								A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)					
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/soil, BT=Trace, A=Air)		Analysis Requested		Special Instructions/Note:	
										2640C Total Dissolved Solids 300_28Day Chloride Fluoride Sulfate 6020B7470 Custom 14 (Appl/Imp/V) -Mercury 9315_Rez226 Radium 226 9320_Rez228 Radium 228 Combined RAP 2640C Total Diss. Solids Filtered 300 Chloride Fluoride Sulfate 6020B7470 Custom 14 APPL OF APPL 9315 NA226 RADIUM 226 9320 NA228 RADIUM 228 Combined RAP			
Dup-01		10-13-21		1345		G		SOLID		X X X X X X			
Dup-01 FF		↓		1355		↓		↓		X X X X X X			
Dup-02		↓		1420		↓		↓		X X X X X X			
Dup-02 FF		↓ ROH		1430		↓ ROH		↓ ROH		X X X X X X			
Possible Hazard Identification		<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)		<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)													
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:							
Relinquished by: <i>[Signature]</i>		Date/Time: 10-13-21 1710		Company: ROH ENV.		Received by: <i>[Signature]</i>		Date/Time: 01/14/21 915		Company: <i>[Signature]</i>			
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		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:							

Do Not Lift Using This Tag

ORIGIN ID: BIXA (850) 336-0192
RDH ENVIRONMENTAL
RDH ENVIRONMENTAL
5720 DOVE DR

SHIP DATE: 13OCT21

PACE, FL 32571
UNITED STATES US

TO TEST AMERICA
TEST AMERICA
301 ALPHA DR

PITTSBURGH PA 15238

(412) 988-7068
INVT
PO1

REF1
DEPT1

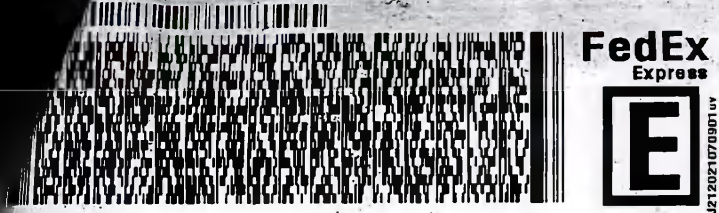
RT 98 1 A
10:30
FZ

DATE: 13OCT21
TIME: 10:30 AM
CITY: PITTSBURGH PA
STATE: PA
ZIP: 15238
BILL TO: THIRD PARTY

156297453/WH/CF/EX/08/22

PITTSBURGH PA 15238

REF1
DEPT1



1 of 10
TRK# 0201 2848 6203 0571
MASTER ##
THU - 14 OCT 10:30A
PRIORITY OVERNIGHT

XH AGCA 15238
PIT

Uncorrected temp Thermometer ID
CF 2 Initials WJ
PT-WI-SR-001 effective 11/8/18

RT 98 1 A
10:30 0571
FZ 10.14

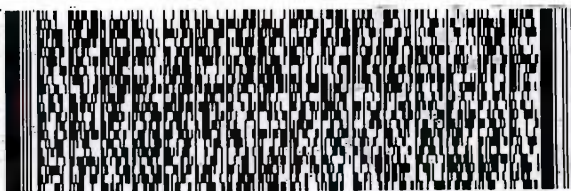
6 of 10
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Metr# 2848 6203 0571
THU - 14 OCT 10:30A
PRIORITY OVERNIGHT

XH AGCA 15238
PA-US

Uncorrected temp Thermometer ID
CF 2 Initials WJ
PT-WI-SR-001 effective 11/8/18



1
2
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J21202107080104

10 of 10
MPS# 2848 6203 0663
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THU - 14 OCT 10:30A
PRIORITY OVERNIGHT

0201

XH AGCA

15238
PA-US PIT

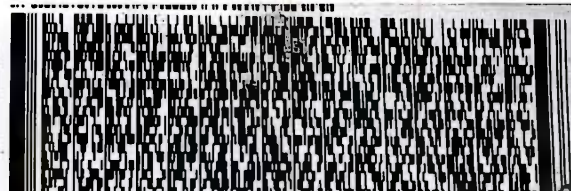


Uncorrected temp
Thermometer ID

2.7 °C

CF 0 Initials UH

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



J21202107080104

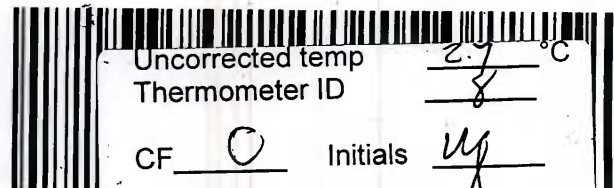
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Mstr# 2848 6203 0571

THU - 14 OCT 10:30A
PRIORITY OVERNIGHT

0201

XH AGCA

15238
PA-US PIT



Uncorrected temp
Thermometer ID

2.7 °C

CF 0 Initials UH

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



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ORIGIN ID:BIXA (850) 336-0192
RDH ENVIRONMENTAL
RDH ENVIRONMENTAL
5720 DOVE DR

SHIP DATE: 13OCT21
ACTWTG: 80.95 LB
CAD: 6993798/SSFE2220
DIMS: 23x12x14 IN

PAGE, FL 32571
UNITED STATES US

BILL THIRD PARTY

TO TEST AMERICA
TEST AMERICA
301 ALPHA DR

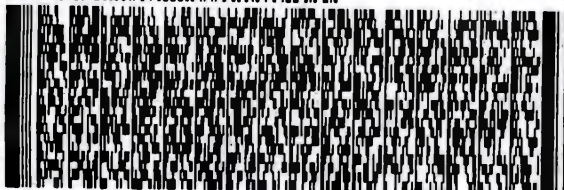
PITTSBURGH PA 15238

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8 of 10

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Mstr# 2848 6203 0571

0201

THU - 14 OCT 10:30A
PRIORITY OVERNIGHT

XH AGCA

15238

PA-US PIT



Uncorrected temp
Thermometer ID

CF 0

Initials

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

23
8
eg

Do Not Lift Using This Tag

RT 98

10:30

0593
10.14

FZ

ORIGIN ID:BIXA (850) 336-0192
RDH ENVIRONMENTAL
RDH ENVIRONMENTAL
5720 DOVE DR

SHIP DATE: 13OCT21
ACTWTG: 60.95 LB
CAD: 6993798/SSFE2220
DIMS: 23x12x14 IN

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UNITED STATES US

BILL THIRD PARTY

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TEST AMERICA
301 ALPHA DR

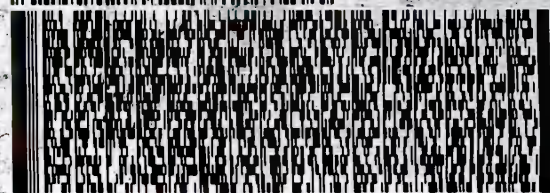
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DEPT:



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3 of 10

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Mstr# 2848 6203 0571

0201

THU - 14 OCT 10:30A
PRIORITY OVERNIGHT

XH AGCA

15238

PIT

Uncorrected temp
Thermometer ID

CF 0

Initials

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

23
8
eg

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ORIGIN ID: BIKR (850) 998-0182
RDH ENVIRONMENTAL
RDH ENVIRONMENTAL
5720 DOVE DR

SHIP DATE: 08/22
ACT. WEIGHT: 8.05 LB
CAD: 089978875822244
DIM: 29x12x6

PACE, FL 32571
UNITED STATES US

BILL THIRD PARTY

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TEST AMERICA
301 ALPHA DR

PITTSBURGH PA 15238

(412) 988-7068

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5 of 10

MPS# 2848 6203 0619
0263

Mstr# 2848 6203 0571

0201

XH AGCA

15238
PA-US PIT

THU - 14 OCT 10:30A
PRIORITY OVERNIGHT



Uncorrected temp.
Thermometer ID

CF 0 Initials Uz

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

88
10:30
0919
10:14
A

Do Not Lift Using This Tag

ORIGIN ID: BIKR (850) 998-0182
RDH ENVIRONMENTAL
RDH ENVIRONMENTAL
5720 DOVE DR

SHIP DATE: 08/22
ACT. WEIGHT: 8.05 LB
CAD: 089978875822244
DIM: 29x12x6

PACE, FL 32571
UNITED STATES US

BILL THIRD PARTY

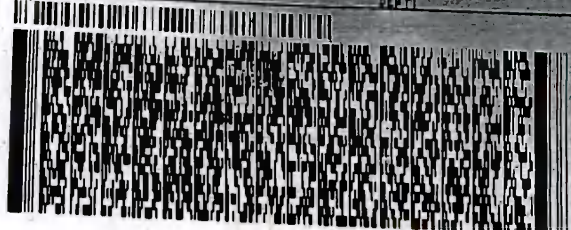
TO TEST AMERICA
TEST AMERICA
301 ALPHA DR

PITTSBURGH PA 15238

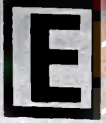
(412) 988-7068

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INVT: POST: REPT:



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9 of 10

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Mstr# 2848 6203 0571

0201

XH AGCA

15238
PA-US PIT

THU - 14 OCT 10:30A
PRIORITY OVERNIGHT

Uncorrected temp.
Thermometer ID

CF 0 Initials Uz

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



Do Not Lift Using This Tag

ORIGIN ID:BIKA (850) 336-0192
RDH ENVIORMENTAL
RDH ENVIORMENTAL
5720 DOVE DR

SHIP DATE: 13OCT21
ACTWGT: 60.95 LB
CAD: 6993799/SSFE2220
DIMS: 23x12x14 IN

PAGE, FL 32571
UNITED STATES US

BILL THIRD PARTY

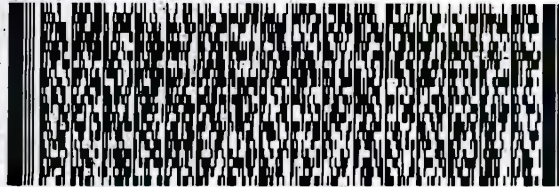
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2 of 10

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0263

Mstr# 2848 6203 0571

0201

THU - 14 OCT 10:30A
PRIORITY OVERNIGHT

XH AGCA

15238

PA-US PIT

Uncorrected temp 9.2 °C
Thermometer ID 8
CF 0 Initials WJ
PT-WI-SR-001 effective 11/8/18

Do Not Lift Using This Tag

ORIGIN ID:BIKA (850) 336-0192
RDH ENVIORMENTAL
RDH ENVIORMENTAL
5720 DOVE DR

SHIP DATE: 13OCT21
ACTWGT: 60.95 LB
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DIMS: 23x12x14 IN

PAGE, FL 32571
UNITED STATES US

BILL THIRD PARTY

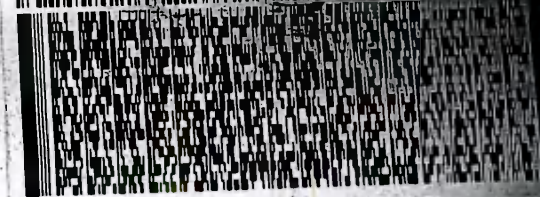
TO TEST AMERICA
TEST AMERICA
301 ALPHA DR

PITTSBURGH PA 15238

(412) 868-7068

REF:

DEPT:



7 of 10

MPS# 2848 6203 0630
0263

Mstr# 2848 6203 0571

0201

THU - 14 OCT 10:30A
PRIORITY OVERNIGHT

XH AGCA

15238

PA-US PIT

Uncorrected temp 2.6 °C
Thermometer ID 8
CF 0 Initials WJ
PT-WI-SR-001 effective 11/8/18

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-128482-1

Login Number: 128482

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-128482-2

Client Project/Site: Plant Watson Ash Pond Surfacewater

For:

Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Robert Singleton



Authorized for release by:
12/15/2021 2:03:28 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Job ID: 180-128482-2

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-128482-2

Comments

No additional comments.

Receipt

The samples were received on 10/14/2021 9:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 10 coolers at receipt time were 2.3° C, 2.5° C, 2.6° C, 2.6° C, 2.7° C, 2.7° C, 3.2° C, 3.3° C, 4.1° C and 4.2° C.

Receipt Exceptions

One container for the following sample was received leaking, with a pinhole in the bottom of the container: SW-2-1' (180-128482-9). Half of the contents were lost in transit. There is sufficient sample remaining for the requested analyses.

RAD

Method 9315: Radium 226 batch 533325

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. SW-5-1 FF (180-128482-16), SW-5-13 (180-128482-17), SW-5-13 FF (180-128482-18), SW-6-1 (180-128482-19), SW-6-1 FF (180-128482-20), SW-6-9.5 (180-128482-21), SW-6-9.5 FF (180-128482-22), SW-9-1 (180-128482-23), SW-9-1 FF (180-128482-24), SW-9-4 (180-128482-25), SW-9-4 FF (180-128482-26), SW-10-2 (180-128482-27), SW-10-2 FF (180-128482-28), SW-11-2 (180-128482-29), SW-11-2 FF (180-128482-30), SW-12-2 (180-128482-31), SW-12-2 FF (180-128482-32), SW-13-1 (180-128482-33), SW-13-1 FF (180-128482-34), SW-14-1.5 (180-128482-35), (LCS 160-533325/1-A), (LCSD 160-533325/2-A) and (MB 160-533325/23-A)

Method 9315: Radium 226 batch 532643

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. SW-1-1' (180-128482-1), SW-1-1' FF (180-128482-2), SW-1-7' (180-128482-3), SW-1-7' FF (180-128482-4), SW-3-1' FF (180-128482-6), SW-3-4' (180-128482-7), SW-3-4' FF (180-128482-8), SW-2-1' (180-128482-9), SW-2-1' FF (180-128482-10), SW-2-7' (180-128482-11), SW-2-7' FF (180-128482-12), SW-4-1.5 (180-128482-13), SW-4-1.5 FF (180-128482-14), SW-5-1 (180-128482-15), (LCS 160-532643/1-A), (MB 160-532643/24-A) and (310-217518-D-4-A)

Methods 903.0, 9315: Radium 226 batch 533331

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. SW-14-1.5 FF (180-128482-36), SW-15-1.5 (180-128482-37), SW-15-1.5 FF (180-128482-38), SW-16-1.5 (180-128482-39), SW-16-1.5 FF (180-128482-40), SW-17-1 (180-128482-41), SW-17-1 FF (180-128482-42), EB-01 (180-128482-43), EB-02 (180-128482-44), DUP-01 (180-128482-45), DUP-01 FF (180-128482-46), DUP-02 (180-128482-47), DUP-02 FF (180-128482-48), (LCS 160-533331/1-A), (MB 160-533331/24-A), (160-43706-E-7-B MS) and (160-43706-E-7-C MSD)

Method 9315: Radium 226 batch 532643

The detection goal was not met. The sample was prepped at a reduced aliquot due to the presence of matrix interferences: SW-3-1' (180-128482-5). Analytical results are reported with the detection limit achieved.

Method 9315: Radium 226 batch 532643

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. SW-3-1' (180-128482-5)

Method 9315: Radium 226 batch 532643

The Barium carrier recovery is outside the lower control limit (40%) for the following sample: SW-3-1' (180-128482-5). There was physical evidence of matrix interference apparent during the initial preparation of the sample. The QC samples associated with the batch have acceptable carrier recovery indicating the presence of matrix interference.

Case Narrative

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Job ID: 180-128482-2 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

Method 9320: Ra-228 batch 160-533329

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. SW-5-1 FF (180-128482-16), SW-5-13 (180-128482-17), SW-5-13 FF (180-128482-18), SW-6-1 (180-128482-19), SW-6-1 FF (180-128482-20), SW-6-9.5 (180-128482-21), SW-6-9.5 FF (180-128482-22), SW-9-1 (180-128482-23), SW-9-1 FF (180-128482-24), SW-9-4 (180-128482-25), SW-9-4 FF (180-128482-26), SW-10-2 (180-128482-27), SW-10-2 FF (180-128482-28), SW-11-2 (180-128482-29), SW-11-2 FF (180-128482-30), SW-12-2 (180-128482-31), SW-12-2 FF (180-128482-32), SW-13-1 (180-128482-33), SW-13-1 FF (180-128482-34), SW-14-1.5 (180-128482-35), (LCS 160-533329/1-A), (LCSD 160-533329/2-A) and (MB 160-533329/23-A)

Methods 904.0, 9320: Radium 228 batch 533458

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. SW-14-1.5 FF (180-128482-36), SW-15-1.5 (180-128482-37), SW-15-1.5 FF (180-128482-38), SW-16-1.5 (180-128482-39), SW-16-1.5 FF (180-128482-40), SW-17-1 (180-128482-41), SW-17-1 FF (180-128482-42), EB-01 (180-128482-43), EB-02 (180-128482-44), DUP-01 (180-128482-45), DUP-01 FF (180-128482-46), DUP-02 (180-128482-47), DUP-02 FF (180-128482-48), (LCS 160-533458/1-A), (MB 160-533458/24-A), (160-43706-E-7-D), (160-43706-E-7-E MS) and (160-43706-E-7-F MSD)

Method 9320: Radium 228 batch 532651

The detection goal was not met. Samples were prepped at a reduced volume due to the presence of matrix interferences: SW-1-7' (180-128482-3), SW-3-4' (180-128482-7), SW-3-4' FF (180-128482-8), SW-2-1' (180-128482-9), SW-4-1.5 FF (180-128482-14) and SW-5-1 (180-128482-15). Analytical results are reported with the detection limit achieved.

Method 9320: Radium 228 batch 532651

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. SW-1-1' (180-128482-1), SW-1-1' FF (180-128482-2), SW-1-7' (180-128482-3), SW-1-7' FF (180-128482-4), SW-3-1' FF (180-128482-6), SW-3-4' (180-128482-7), SW-3-4' FF (180-128482-8), SW-2-1' (180-128482-9), SW-2-1' FF (180-128482-10), SW-2-7' (180-128482-11), SW-2-7' FF (180-128482-12), SW-4-1.5 (180-128482-13), SW-4-1.5 FF (180-128482-14), SW-5-1 (180-128482-15), (LCS 160-532651/1-A) and (MB 160-532651/24-A)

Methods 904.0, 9320: Radium-228 prep batch 160-536395:

The Ra-228 laboratory control sample (LCS) associated with the following samples recovered at 69%(LCS 160-536395/1-A). The limits in our LIMS system at (75-125%) reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (61-138%) per method requirements. The LCS is within criteria and no further action is required.

Methods 904.0, 9320: Radium-228 prep batch 160-536395:

The following samples have an RER (replicate error ratio) result outside of the acceptance criteria of 1 for Ra-228. Duplicate precision is demonstrated by acceptable relative percent difference (RPD), within the limit of 40%. The data have been reported with this narrative. (LCSD 160-536395/2-A)

Methods 904.0, 9320: Radium-228 prep batch 160-536395:

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. SW-3-1' (180-128482-5), (LCS 160-536395/1-A), (LCSD 160-536395/2-A) and (MB 160-536395/5-A)

Method PrecSep_0: Radium-228 Prep Batch 160-533329

The following samples were prepared at a reduced aliquot due to Matrix: SW-5-1 FF (180-128482-16), SW-5-13 (180-128482-17), SW-5-13 FF (180-128482-18), SW-6-1 (180-128482-19), SW-6-1 FF (180-128482-20), SW-6-9.5 (180-128482-21), SW-6-9.5 FF (180-128482-22), SW-9-1 (180-128482-23), SW-9-1 FF (180-128482-24), SW-9-4 (180-128482-25), SW-9-4 FF (180-128482-26), SW-10-2 (180-128482-27), SW-10-2 FF (180-128482-28), SW-11-2 (180-128482-29), SW-11-2 FF (180-128482-30), SW-12-2 (180-128482-31), SW-12-2 FF (180-128482-32), SW-13-1 (180-128482-33), SW-13-1 FF (180-128482-34) and SW-14-1.5 (180-128482-35). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample

Case Narrative

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Job ID: 180-128482-2 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

duplicate (DUP) to demonstrate batch precision.

Method PrecSep_0: Radium-228 Prep Batch 160-533329

Insufficient sample volume was available to perform a sample duplicate for the following samples: SW-5-1 FF (180-128482-16), SW-5-13 (180-128482-17), SW-5-13 FF (180-128482-18), SW-6-1 (180-128482-19), SW-6-1 FF (180-128482-20), SW-6-9.5 (180-128482-21), SW-6-9.5 FF (180-128482-22), SW-9-1 (180-128482-23), SW-9-1 FF (180-128482-24), SW-9-4 (180-128482-25), SW-9-4 FF (180-128482-26), SW-10-2 (180-128482-27), SW-10-2 FF (180-128482-28), SW-11-2 (180-128482-29), SW-11-2 FF (180-128482-30), SW-12-2 (180-128482-31), SW-12-2 FF (180-128482-32), SW-13-1 (180-128482-33), SW-13-1 FF (180-128482-34) and SW-14-1.5 (180-128482-35). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep_0: Radium-228 Prep Batch 160-536395

The following samples were prepared at a reduced aliquot due to Matrix: SW-3-1' (180-128482-5). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep-21: Radium-226 Prep Batch 160-533325

The following samples were prepared at a reduced aliquot due to Matrix: SW-5-1 FF (180-128482-16), SW-5-13 (180-128482-17), SW-5-13 FF (180-128482-18), SW-6-1 (180-128482-19), SW-6-1 FF (180-128482-20), SW-6-9.5 (180-128482-21), SW-6-9.5 FF (180-128482-22), SW-9-1 (180-128482-23), SW-9-1 FF (180-128482-24), SW-9-4 (180-128482-25), SW-9-4 FF (180-128482-26), SW-10-2 (180-128482-27), SW-10-2 FF (180-128482-28), SW-11-2 (180-128482-29), SW-11-2 FF (180-128482-30), SW-12-2 (180-128482-31), SW-12-2 FF (180-128482-32), SW-13-1 (180-128482-33), SW-13-1 FF (180-128482-34) and SW-14-1.5 (180-128482-35). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep-21: Radium-226 Prep Batch 160-533325

Insufficient sample volume was available to perform a sample duplicate for the following samples: SW-5-1 FF (180-128482-16), SW-5-13 (180-128482-17), SW-5-13 FF (180-128482-18), SW-6-1 (180-128482-19), SW-6-1 FF (180-128482-20), SW-6-9.5 (180-128482-21), SW-6-9.5 FF (180-128482-22), SW-9-1 (180-128482-23), SW-9-1 FF (180-128482-24), SW-9-4 (180-128482-25), SW-9-4 FF (180-128482-26), SW-10-2 (180-128482-27), SW-10-2 FF (180-128482-28), SW-11-2 (180-128482-29), SW-11-2 FF (180-128482-30), SW-12-2 (180-128482-31), SW-12-2 FF (180-128482-32), SW-13-1 (180-128482-33), SW-13-1 FF (180-128482-34) and SW-14-1.5 (180-128482-35). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

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

Field Service / Mobile Lab

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

Definitions/Glossary

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Qualifiers

Rad

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.
X	Carrier is outside acceptance limits.

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
CFI	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 Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Laboratory: Eurofins TestAmerica, 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	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	06-30-21 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	01-01-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-21
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-21
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	03-01-22
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

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

Sample Summary

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2



Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-128482-1	SW-1-1'	Water	10/13/21 15:20	10/14/21 09:15
180-128482-2	SW-1-1' FF	Water	10/13/21 15:30	10/14/21 09:15
180-128482-3	SW-1-7'	Water	10/13/21 15:40	10/14/21 09:15
180-128482-4	SW-1-7' FF	Water	10/13/21 15:50	10/14/21 09:15
180-128482-5	SW-3-1'	Water	10/13/21 07:46	10/14/21 09:15
180-128482-6	SW-3-1' FF	Water	10/13/21 07:56	10/14/21 09:15
180-128482-7	SW-3-4'	Water	10/13/21 08:24	10/14/21 09:15
180-128482-8	SW-3-4' FF	Water	10/13/21 08:34	10/14/21 09:15
180-128482-9	SW-2-1'	Water	10/13/21 16:10	10/14/21 09:15
180-128482-10	SW-2-1' FF	Water	10/13/21 16:20	10/14/21 09:15
180-128482-11	SW-2-7'	Water	10/13/21 16:30	10/14/21 09:15
180-128482-12	SW-2-7' FF	Water	10/13/21 16:40	10/14/21 09:15
180-128482-13	SW-4-1.5	Water	10/13/21 08:20	10/14/21 09:15
180-128482-14	SW-4-1.5 FF	Water	10/13/21 08:30	10/14/21 09:15
180-128482-15	SW-5-1	Water	10/13/21 11:00	10/14/21 09:15
180-128482-16	SW-5-1 FF	Water	10/13/21 11:10	10/14/21 09:15
180-128482-17	SW-5-13	Water	10/13/21 11:20	10/14/21 09:15
180-128482-18	SW-5-13 FF	Water	10/13/21 11:30	10/14/21 09:15
180-128482-19	SW-6-1	Water	10/13/21 09:25	10/14/21 09:15
180-128482-20	SW-6-1 FF	Water	10/13/21 09:30	10/14/21 09:15
180-128482-21	SW-6-9.5	Water	10/13/21 09:50	10/14/21 09:15
180-128482-22	SW-6-9.5 FF	Water	10/13/21 10:00	10/14/21 09:15
180-128482-23	SW-9-1	Water	10/13/21 11:50	10/14/21 09:15
180-128482-24	SW-9-1 FF	Water	10/13/21 12:00	10/14/21 09:15
180-128482-25	SW-9-4	Water	10/13/21 12:10	10/14/21 09:15
180-128482-26	SW-9-4 FF	Water	10/13/21 12:20	10/14/21 09:15
180-128482-27	SW-10-2	Water	10/13/21 12:40	10/14/21 09:15
180-128482-28	SW-10-2 FF	Water	10/13/21 12:50	10/14/21 09:15
180-128482-29	SW-11-2	Water	10/13/21 13:10	10/14/21 09:15
180-128482-30	SW-11-2 FF	Water	10/13/21 13:20	10/14/21 09:15
180-128482-31	SW-12-2	Water	10/13/21 13:40	10/14/21 09:15
180-128482-32	SW-12-2 FF	Water	10/13/21 13:50	10/14/21 09:15
180-128482-33	SW-13-1	Water	10/13/21 12:26	10/14/21 09:15
180-128482-34	SW-13-1 FF	Water	10/13/21 12:36	10/14/21 09:15
180-128482-35	SW-14-1.5	Water	10/13/21 09:59	10/14/21 09:15
180-128482-36	SW-14-1.5 FF	Water	10/13/21 10:09	10/14/21 09:15
180-128482-37	SW-15-1.5	Water	10/13/21 10:42	10/14/21 09:15
180-128482-38	SW-15-1.5 FF	Water	10/13/21 10:52	10/14/21 09:15
180-128482-39	SW-16-1.5	Water	10/13/21 11:24	10/14/21 09:15
180-128482-40	SW-16-1.5 FF	Water	10/13/21 11:34	10/14/21 09:15
180-128482-41	SW-17-1	Water	10/13/21 09:16	10/14/21 09:15
180-128482-42	SW-17-1 FF	Water	10/13/21 09:26	10/14/21 09:15
180-128482-43	EB-01	Water	10/13/21 14:31	10/14/21 09:15
180-128482-44	EB-02	Water	10/13/21 15:57	10/14/21 09:15
180-128482-45	DUP-01	Water	10/13/21 13:45	10/14/21 09:15
180-128482-46	DUP-01 FF	Water	10/13/21 13:55	10/14/21 09:15
180-128482-47	DUP-02	Water	10/13/21 14:20	10/14/21 09:15
180-128482-48	DUP-02 FF	Water	10/13/21 14:30	10/14/21 09:15

Method Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

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

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

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-1-1'
Date Collected: 10/13/21 15:20
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-1
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			750.46 mL	1.0 g	532643	10/19/21 13:37	BMP	TAL SL
Total/NA	Analysis	9315		1			536236	11/12/21 12:25	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.46 mL	1.0 g	532651	10/19/21 14:46	BMP	TAL SL
Total/NA	Analysis	9320		1			536046	11/11/21 17:29	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			542143	12/15/21 02:19	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-1-1' FF
Date Collected: 10/13/21 15:30
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.64 mL	1.0 g	532643	10/19/21 13:37	BMP	TAL SL
Dissolved	Analysis	9315		1			536236	11/12/21 12:25	FLC	TAL SL
Instrument ID: GFPCBLUE										
Dissolved	Prep	PrecSep_0			750.64 mL	1.0 g	532651	10/19/21 14:46	BMP	TAL SL
Dissolved	Analysis	9320		1			536046	11/11/21 17:30	FLC	TAL SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			542146	12/15/21 02:21	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-1-7'
Date Collected: 10/13/21 15:40
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-3
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			750.50 mL	1.0 g	532643	10/19/21 13:37	BMP	TAL SL
Total/NA	Analysis	9315		1			536236	11/12/21 12:25	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.50 mL	1.0 g	532651	10/19/21 14:46	BMP	TAL SL
Total/NA	Analysis	9320		1			536046	11/11/21 17:30	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			542143	12/15/21 02:19	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-1-7' FF
Date Collected: 10/13/21 15:50
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.17 mL	1.0 g	532643	10/19/21 13:37	BMP	TAL SL
Dissolved	Analysis	9315		1			536236	11/12/21 12:26	FLC	TAL SL
Instrument ID: GFPCBLUE										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-1-7' FF

Lab Sample ID: 180-128482-4

Date Collected: 10/13/21 15:50

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep_0			750.17 mL	1.0 g	532651	10/19/21 14:46	BMP	TAL SL
Dissolved	Analysis	9320		1			536046	11/11/21 17:30	FLC	TAL SL
		Instrument ID: GFPCBLUE								
Dissolved	Analysis	Ra226_Ra228 (D)		1			542146	12/15/21 02:21	MLK	TAL SL
		Instrument ID: NOEQUIP								

Client Sample ID: SW-3-1'

Lab Sample ID: 180-128482-5

Date Collected: 10/13/21 07:46

Matrix: Water

Date Received: 10/14/21 09:15

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			750.58 mL	1.0 g	532643	10/19/21 13:37	BMP	TAL SL
Total/NA	Analysis	9315		1			536353	11/12/21 21:07	FLC	TAL SL
		Instrument ID: GFPCRED								
Total/NA	Prep	PrecSep_0			750.29 mL	1.0 g	536395	11/12/21 10:53	LPS	TAL SL
Total/NA	Analysis	9320		1			537275	11/18/21 13:29	ANW	TAL SL
		Instrument ID: GFPCORANGE								
Total/NA	Analysis	Ra226_Ra228		1			542143	12/15/21 02:19	MLK	TAL SL
		Instrument ID: NOEQUIP								

Client Sample ID: SW-3-1' FF

Lab Sample ID: 180-128482-6

Date Collected: 10/13/21 07:56

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.15 mL	1.0 g	532643	10/19/21 13:37	BMP	TAL SL
Dissolved	Analysis	9315		1			536236	11/12/21 12:26	FLC	TAL SL
		Instrument ID: GFPCBLUE								
Dissolved	Prep	PrecSep_0			750.15 mL	1.0 g	532651	10/19/21 14:46	BMP	TAL SL
Dissolved	Analysis	9320		1			536046	11/11/21 17:31	FLC	TAL SL
		Instrument ID: GFPCBLUE								
Dissolved	Analysis	Ra226_Ra228 (D)		1			542146	12/15/21 02:21	MLK	TAL SL
		Instrument ID: NOEQUIP								

Client Sample ID: SW-3-4'

Lab Sample ID: 180-128482-7

Date Collected: 10/13/21 08:24

Matrix: Water

Date Received: 10/14/21 09:15

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			750.47 mL	1.0 g	532643	10/19/21 13:37	BMP	TAL SL
Total/NA	Analysis	9315		1			536236	11/12/21 12:26	FLC	TAL SL
		Instrument ID: GFPCBLUE								
Total/NA	Prep	PrecSep_0			750.47 mL	1.0 g	532651	10/19/21 14:46	BMP	TAL SL
Total/NA	Analysis	9320		1			536046	11/11/21 17:31	FLC	TAL SL
		Instrument ID: GFPCBLUE								

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Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-3-4'
Date Collected: 10/13/21 08:24
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-7
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			542143	12/15/21 02:19	MLK	TAL SL

Client Sample ID: SW-3-4' FF
Date Collected: 10/13/21 08:34
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.28 mL	1.0 g	532643	10/19/21 13:37	BMP	TAL SL
Dissolved	Analysis	9315		1			536236	11/12/21 12:26	FLC	TAL SL
Instrument ID: GFPCBLUE										
Dissolved	Prep	PrecSep_0			750.28 mL	1.0 g	532651	10/19/21 14:46	BMP	TAL SL
Dissolved	Analysis	9320		1			536054	11/11/21 17:33	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			542146	12/15/21 02:21	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-2-1'
Date Collected: 10/13/21 16:10
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-9
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			750.81 mL	1.0 g	532643	10/19/21 13:37	BMP	TAL SL
Total/NA	Analysis	9315		1			536353	11/12/21 12:28	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			750.81 mL	1.0 g	532651	10/19/21 14:46	BMP	TAL SL
Total/NA	Analysis	9320		1			536054	11/11/21 17:33	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			542143	12/15/21 02:19	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-2-1' FF
Date Collected: 10/13/21 16:20
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.78 mL	1.0 g	532643	10/19/21 13:37	BMP	TAL SL
Dissolved	Analysis	9315		1			536353	11/12/21 12:28	FLC	TAL SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			750.78 mL	1.0 g	532651	10/19/21 14:46	BMP	TAL SL
Dissolved	Analysis	9320		1			536054	11/11/21 17:33	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			542146	12/15/21 02:21	MLK	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-2-7'
Date Collected: 10/13/21 16:30
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-11
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			750.39 mL	1.0 g	532643	10/19/21 13:37	BMP	TAL SL
Total/NA	Analysis	9315		1			536353	11/12/21 12:29	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			750.39 mL	1.0 g	532651	10/19/21 14:46	BMP	TAL SL
Total/NA	Analysis	9320		1			536054	11/11/21 17:34	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			542143	12/15/21 02:19	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-2-7' FF
Date Collected: 10/13/21 16:40
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.60 mL	1.0 g	532643	10/19/21 13:37	BMP	TAL SL
Dissolved	Analysis	9315		1			536353	11/12/21 12:29	FLC	TAL SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			750.60 mL	1.0 g	532651	10/19/21 14:46	BMP	TAL SL
Dissolved	Analysis	9320		1			536054	11/11/21 17:34	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			542146	12/15/21 02:21	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-4-1.5
Date Collected: 10/13/21 08:20
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-13
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			750.06 mL	1.0 g	532643	10/19/21 13:37	BMP	TAL SL
Total/NA	Analysis	9315		1			536353	11/12/21 12:30	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			750.06 mL	1.0 g	532651	10/19/21 14:46	BMP	TAL SL
Total/NA	Analysis	9320		1			536054	11/11/21 17:34	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			542143	12/15/21 02:19	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-4-1.5 FF
Date Collected: 10/13/21 08:30
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.29 mL	1.0 g	532643	10/19/21 13:37	BMP	TAL SL
Dissolved	Analysis	9315		1			536353	11/12/21 12:30	FLC	TAL SL
Instrument ID: GFPCRED										

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Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-4-1.5 FF
Date Collected: 10/13/21 08:30
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep_0			750.29 mL	1.0 g	532651	10/19/21 14:46	BMP	TAL SL
Dissolved	Analysis	9320		1			536054	11/11/21 17:34	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			542146	12/15/21 02:21	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-5-1
Date Collected: 10/13/21 11:00
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-15
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			750.91 mL	1.0 g	532643	10/19/21 13:37	BMP	TAL SL
Total/NA	Analysis	9315		1			536353	11/12/21 12:30	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			750.91 mL	1.0 g	532651	10/19/21 14:46	BMP	TAL SL
Total/NA	Analysis	9320		1			536054	11/11/21 17:34	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			542143	12/15/21 02:19	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-5-1 FF
Date Collected: 10/13/21 11:10
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.32 mL	1.0 g	533325	10/25/21 09:26	BMP	TAL SL
Dissolved	Analysis	9315		1			536881	11/16/21 20:51	FLC	TAL SL
Instrument ID: GFPCBLUE										
Dissolved	Prep	PrecSep_0			750.32 mL	1.0 g	533329	10/25/21 10:07	BMP	TAL SL
Dissolved	Analysis	9320		1			536661	11/15/21 14:19	MLK	TAL SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			542146	12/15/21 02:21	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-5-13
Date Collected: 10/13/21 11:20
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-17
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			750.72 mL	1.0 g	533325	10/25/21 09:26	BMP	TAL SL
Total/NA	Analysis	9315		1			536881	11/16/21 20:51	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.72 mL	1.0 g	533329	10/25/21 10:07	BMP	TAL SL
Total/NA	Analysis	9320		1			536661	11/15/21 14:20	MLK	TAL SL
Instrument ID: GFPCBLUE										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-5-13
Date Collected: 10/13/21 11:20
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-17
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			542143	12/15/21 02:19	MLK	TAL SL

Client Sample ID: SW-5-13 FF
Date Collected: 10/13/21 11:30
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.67 mL	1.0 g	533325	10/25/21 09:26	BMP	TAL SL
Dissolved	Analysis	9315		1			536881	11/16/21 20:52	FLC	TAL SL
Instrument ID: GFPCBLUE										
Dissolved	Prep	PrecSep_0			750.67 mL	1.0 g	533329	10/25/21 10:07	BMP	TAL SL
Dissolved	Analysis	9320		1			536661	11/15/21 14:20	MLK	TAL SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			542146	12/15/21 02:21	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-6-1
Date Collected: 10/13/21 09:25
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-19
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			750.23 mL	1.0 g	533325	10/25/21 09:26	BMP	TAL SL
Total/NA	Analysis	9315		1			536881	11/16/21 20:52	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.23 mL	1.0 g	533329	10/25/21 10:07	BMP	TAL SL
Total/NA	Analysis	9320		1			536661	11/15/21 14:20	MLK	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			542143	12/15/21 02:19	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-6-1 FF
Date Collected: 10/13/21 09:30
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			749.78 mL	1.0 g	533325	10/25/21 09:26	BMP	TAL SL
Dissolved	Analysis	9315		1			536881	11/16/21 20:52	FLC	TAL SL
Instrument ID: GFPCBLUE										
Dissolved	Prep	PrecSep_0			749.78 mL	1.0 g	533329	10/25/21 10:07	BMP	TAL SL
Dissolved	Analysis	9320		1			536661	11/15/21 14:20	MLK	TAL SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			542146	12/15/21 02:21	MLK	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-6-9.5

Date Collected: 10/13/21 09:50

Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-21

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			750.65 mL	1.0 g	533325	10/25/21 09:26	BMP	TAL SL
Total/NA	Analysis	9315		1			536881	11/16/21 20:52	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.65 mL	1.0 g	533329	10/25/21 10:07	BMP	TAL SL
Total/NA	Analysis	9320		1			536661	11/15/21 14:20	MLK	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			542143	12/15/21 02:19	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-6-9.5 FF

Date Collected: 10/13/21 10:00

Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-22

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.19 mL	1.0 g	533325	10/25/21 09:26	BMP	TAL SL
Dissolved	Analysis	9315		1			536881	11/16/21 20:52	FLC	TAL SL
Instrument ID: GFPCBLUE										
Dissolved	Prep	PrecSep_0			750.19 mL	1.0 g	533329	10/25/21 10:07	BMP	TAL SL
Dissolved	Analysis	9320		1			536661	11/15/21 14:20	MLK	TAL SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			542146	12/15/21 02:21	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-9-1

Date Collected: 10/13/21 11:50

Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-23

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			750.13 mL	1.0 g	533325	10/25/21 09:26	BMP	TAL SL
Total/NA	Analysis	9315		1			536881	11/16/21 20:52	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.13 mL	1.0 g	533329	10/25/21 10:07	BMP	TAL SL
Total/NA	Analysis	9320		1			536661	11/15/21 14:20	MLK	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			542143	12/15/21 02:19	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-9-1 FF

Date Collected: 10/13/21 12:00

Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-24

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.98 mL	1.0 g	533325	10/25/21 09:26	BMP	TAL SL
Dissolved	Analysis	9315		1			536881	11/16/21 20:52	FLC	TAL SL
Instrument ID: GFPCBLUE										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-9-1 FF

Date Collected: 10/13/21 12:00

Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-24

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep_0			750.98 mL	1.0 g	533329	10/25/21 10:07	BMP	TAL SL
Dissolved	Analysis	9320		1			536661	11/15/21 14:21	MLK	TAL SL
		Instrument ID: GFPCBLUE								
Dissolved	Analysis	Ra226_Ra228 (D)		1			542146	12/15/21 02:21	MLK	TAL SL
		Instrument ID: NOEQUIP								

Client Sample ID: SW-9-4

Date Collected: 10/13/21 12:10

Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-25

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			750.95 mL	1.0 g	533325	10/25/21 09:26	BMP	TAL SL
Total/NA	Analysis	9315		1			536881	11/16/21 20:53	FLC	TAL SL
		Instrument ID: GFPCBLUE								
Total/NA	Prep	PrecSep_0			750.95 mL	1.0 g	533329	10/25/21 10:07	BMP	TAL SL
Total/NA	Analysis	9320		1			536661	11/15/21 14:21	MLK	TAL SL
		Instrument ID: GFPCBLUE								
Total/NA	Analysis	Ra226_Ra228		1			542143	12/15/21 02:19	MLK	TAL SL
		Instrument ID: NOEQUIP								

Client Sample ID: SW-9-4 FF

Date Collected: 10/13/21 12:20

Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-26

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.27 mL	1.0 g	533325	10/25/21 09:26	BMP	TAL SL
Dissolved	Analysis	9315		1			536881	11/16/21 20:53	FLC	TAL SL
		Instrument ID: GFPCBLUE								
Dissolved	Prep	PrecSep_0			750.27 mL	1.0 g	533329	10/25/21 10:07	BMP	TAL SL
Dissolved	Analysis	9320		1			536661	11/15/21 14:21	MLK	TAL SL
		Instrument ID: GFPCBLUE								
Dissolved	Analysis	Ra226_Ra228 (D)		1			542146	12/15/21 02:21	MLK	TAL SL
		Instrument ID: NOEQUIP								

Client Sample ID: SW-10-2

Date Collected: 10/13/21 12:40

Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-27

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			750.16 mL	1.0 g	533325	10/25/21 09:26	BMP	TAL SL
Total/NA	Analysis	9315		1			536882	11/16/21 20:54	ANW	TAL SL
		Instrument ID: GFPCPURPLE								
Total/NA	Prep	PrecSep_0			750.16 mL	1.0 g	533329	10/25/21 10:07	BMP	TAL SL
Total/NA	Analysis	9320		1			536661	11/15/21 14:21	MLK	TAL SL
		Instrument ID: GFPCBLUE								

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Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-10-2
Date Collected: 10/13/21 12:40
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-27
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			542143	12/15/21 02:19	MLK	TAL SL

Client Sample ID: SW-10-2 FF
Date Collected: 10/13/21 12:50
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-28
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.35 mL	1.0 g	533325	10/25/21 09:26	BMP	TAL SL
Dissolved	Analysis	9315		1			536882	11/16/21 20:54	ANW	TAL SL
Instrument ID: GFPCPURPLE										
Dissolved	Prep	PrecSep_0			750.35 mL	1.0 g	533329	10/25/21 10:07	BMP	TAL SL
Dissolved	Analysis	9320		1			536661	11/15/21 14:21	MLK	TAL SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			542146	12/15/21 02:21	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-11-2
Date Collected: 10/13/21 13:10
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-29
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			750.44 mL	1.0 g	533325	10/25/21 09:26	BMP	TAL SL
Total/NA	Analysis	9315		1			536882	11/16/21 20:55	ANW	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			750.44 mL	1.0 g	533329	10/25/21 10:07	BMP	TAL SL
Total/NA	Analysis	9320		1			536662	11/15/21 14:24	MLK	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			542143	12/15/21 02:19	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-11-2 FF
Date Collected: 10/13/21 13:20
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.43 mL	1.0 g	533325	10/25/21 09:26	BMP	TAL SL
Dissolved	Analysis	9315		1			536882	11/16/21 20:55	ANW	TAL SL
Instrument ID: GFPCPURPLE										
Dissolved	Prep	PrecSep_0			750.43 mL	1.0 g	533329	10/25/21 10:07	BMP	TAL SL
Dissolved	Analysis	9320		1			536662	11/15/21 14:24	MLK	TAL SL
Instrument ID: GFPCPURPLE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			542146	12/15/21 02:21	MLK	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-12-2
Date Collected: 10/13/21 13:40
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-31
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			750.04 mL	1.0 g	533325	10/25/21 09:26	BMP	TAL SL
Total/NA	Analysis	9315		1			536880	11/16/21 21:33	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			750.04 mL	1.0 g	533329	10/25/21 10:07	BMP	TAL SL
Total/NA	Analysis	9320		1			536662	11/15/21 14:24	MLK	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			542143	12/15/21 02:19	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-12-2 FF
Date Collected: 10/13/21 13:50
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-32
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.84 mL	1.0 g	533325	10/25/21 09:26	BMP	TAL SL
Dissolved	Analysis	9315		1			536880	11/16/21 21:34	FLC	TAL SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			750.84 mL	1.0 g	533329	10/25/21 10:07	BMP	TAL SL
Dissolved	Analysis	9320		1			536662	11/15/21 14:24	MLK	TAL SL
Instrument ID: GFPCPURPLE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			542146	12/15/21 02:21	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-13-1
Date Collected: 10/13/21 12:26
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-33
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			750.38 mL	1.0 g	533325	10/25/21 09:26	BMP	TAL SL
Total/NA	Analysis	9315		1			536880	11/16/21 21:34	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			750.38 mL	1.0 g	533329	10/25/21 10:07	BMP	TAL SL
Total/NA	Analysis	9320		1			536662	11/15/21 14:24	MLK	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			542143	12/15/21 02:19	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-13-1 FF
Date Collected: 10/13/21 12:36
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-34
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.59 mL	1.0 g	533325	10/25/21 09:26	BMP	TAL SL
Dissolved	Analysis	9315		1			536880	11/16/21 21:34	FLC	TAL SL
Instrument ID: GFPCRED										

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Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-13-1 FF

Lab Sample ID: 180-128482-34

Date Collected: 10/13/21 12:36

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep_0			750.59 mL	1.0 g	533329	10/25/21 10:07	BMP	TAL SL
Dissolved	Analysis	9320		1			536662	11/15/21 14:24	MLK	TAL SL
Instrument ID: GFPCPURPLE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			542146	12/15/21 02:21	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-14-1.5

Lab Sample ID: 180-128482-35

Date Collected: 10/13/21 09:59

Matrix: Water

Date Received: 10/14/21 09:15

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			750.76 mL	1.0 g	533325	10/25/21 09:26	BMP	TAL SL
Total/NA	Analysis	9315		1			536881	11/16/21 21:32	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.76 mL	1.0 g	533329	10/25/21 10:07	BMP	TAL SL
Total/NA	Analysis	9320		1			536662	11/15/21 14:25	MLK	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			542143	12/15/21 02:19	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-14-1.5 FF

Lab Sample ID: 180-128482-36

Date Collected: 10/13/21 10:09

Matrix: Water

Date Received: 10/14/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.75 mL	1.0 g	533331	10/25/21 10:10	BMP	TAL SL
Dissolved	Analysis	9315		1			537059	11/17/21 08:47	ANW	TAL SL
Instrument ID: GFPCBLUE										
Dissolved	Prep	PrecSep_0			750.75 mL	1.0 g	533458	10/25/21 10:47	BMP	TAL SL
Dissolved	Analysis	9320		1			536883	11/16/21 16:29	FLC	TAL SL
Instrument ID: GFPCORANGE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			542146	12/15/21 02:21	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-15-1.5

Lab Sample ID: 180-128482-37

Date Collected: 10/13/21 10:42

Matrix: Water

Date Received: 10/14/21 09:15

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			750.33 mL	1.0 g	533331	10/25/21 10:10	BMP	TAL SL
Total/NA	Analysis	9315		1			537059	11/17/21 08:47	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.33 mL	1.0 g	533458	10/25/21 10:47	BMP	TAL SL
Total/NA	Analysis	9320		1			536883	11/16/21 16:29	FLC	TAL SL
Instrument ID: GFPCORANGE										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-15-1.5

Date Collected: 10/13/21 10:42

Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-37

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			542143	12/15/21 02:19	MLK	TAL SL

Client Sample ID: SW-15-1.5 FF

Date Collected: 10/13/21 10:52

Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-38

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.79 mL	1.0 g	533331	10/25/21 10:10	BMP	TAL SL
Dissolved	Analysis	9315		1			537097	11/17/21 08:50	ANW	TAL SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			750.79 mL	1.0 g	533458	10/25/21 10:47	BMP	TAL SL
Dissolved	Analysis	9320		1			536883	11/16/21 16:29	FLC	TAL SL
Instrument ID: GFPCORANGE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			542146	12/15/21 02:21	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-16-1.5

Date Collected: 10/13/21 11:24

Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-39

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			750.27 mL	1.0 g	533331	10/25/21 10:10	BMP	TAL SL
Total/NA	Analysis	9315		1			537097	11/17/21 08:51	ANW	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			750.27 mL	1.0 g	533458	10/25/21 10:47	BMP	TAL SL
Total/NA	Analysis	9320		1			536883	11/16/21 16:29	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			542143	12/15/21 02:19	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-16-1.5 FF

Date Collected: 10/13/21 11:34

Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-40

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.52 mL	1.0 g	533331	10/25/21 10:10	BMP	TAL SL
Dissolved	Analysis	9315		1			537097	11/17/21 08:51	ANW	TAL SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			750.52 mL	1.0 g	533458	10/25/21 10:47	BMP	TAL SL
Dissolved	Analysis	9320		1			536883	11/16/21 16:29	FLC	TAL SL
Instrument ID: GFPCORANGE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			542146	12/15/21 02:21	MLK	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-17-1
Date Collected: 10/13/21 09:16
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-41
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			750.94 mL	1.0 g	533331	10/25/21 10:10	BMP	TAL SL
Total/NA	Analysis	9315		1			537097	11/17/21 08:51	ANW	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			750.94 mL	1.0 g	533458	10/25/21 10:47	BMP	TAL SL
Total/NA	Analysis	9320		1			536883	11/16/21 16:30	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			542143	12/15/21 02:19	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-17-1 FF
Date Collected: 10/13/21 09:26
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-42
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.20 mL	1.0 g	533331	10/25/21 10:10	BMP	TAL SL
Dissolved	Analysis	9315		1			537097	11/17/21 08:51	ANW	TAL SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			750.20 mL	1.0 g	533458	10/25/21 10:47	BMP	TAL SL
Dissolved	Analysis	9320		1			536883	11/16/21 16:30	FLC	TAL SL
Instrument ID: GFPCORANGE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			542146	12/15/21 02:21	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-01
Date Collected: 10/13/21 14:31
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-43
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			1000.64 mL	1.0 g	533331	10/25/21 10:10	BMP	TAL SL
Total/NA	Analysis	9315		1			537097	11/17/21 08:52	ANW	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.64 mL	1.0 g	533458	10/25/21 10:47	BMP	TAL SL
Total/NA	Analysis	9320		1			536881	11/16/21 16:37	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			542143	12/15/21 02:19	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-02
Date Collected: 10/13/21 15:57
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-44
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			1000.25 mL	1.0 g	533331	10/25/21 10:10	BMP	TAL SL
Dissolved	Analysis	9315		1			537097	11/17/21 08:52	ANW	TAL SL
Instrument ID: GFPCRED										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: EB-02
Date Collected: 10/13/21 15:57
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-44
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep_0			1000.25 mL	1.0 g	533458	10/25/21 10:47	BMP	TAL SL
Dissolved	Analysis	9320		1			536881	11/16/21 16:38	FLC	TAL SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			542146	12/15/21 02:21	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-01
Date Collected: 10/13/21 13:45
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-45
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			750.31 mL	1.0 g	533331	10/25/21 10:10	BMP	TAL SL
Total/NA	Analysis	9315		1			537097	11/17/21 08:52	ANW	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			750.31 mL	1.0 g	533458	10/25/21 10:47	BMP	TAL SL
Total/NA	Analysis	9320		1			536881	11/16/21 16:38	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			542143	12/15/21 02:19	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-01 FF
Date Collected: 10/13/21 13:55
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-46
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.76 mL	1.0 g	533331	10/25/21 10:10	BMP	TAL SL
Dissolved	Analysis	9315		1			537058	11/17/21 08:54	ANW	TAL SL
Instrument ID: GFPCPURPLE										
Dissolved	Prep	PrecSep_0			750.76 mL	1.0 g	533458	10/25/21 10:47	BMP	TAL SL
Dissolved	Analysis	9320		1			536881	11/16/21 16:38	FLC	TAL SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			542146	12/15/21 02:21	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-02
Date Collected: 10/13/21 14:20
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-47
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			750.66 mL	1.0 g	533331	10/25/21 10:10	BMP	TAL SL
Total/NA	Analysis	9315		1			537058	11/17/21 08:54	ANW	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			750.66 mL	1.0 g	533458	10/25/21 10:47	BMP	TAL SL
Total/NA	Analysis	9320		1			536881	11/16/21 16:38	FLC	TAL SL
Instrument ID: GFPCBLUE										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: DUP-02
Date Collected: 10/13/21 14:20
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-47
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			542143	12/15/21 02:19	MLK	TAL SL

Client Sample ID: DUP-02 FF
Date Collected: 10/13/21 14:30
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-48
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.05 mL	1.0 g	533331	10/25/21 10:10	BMP	TAL SL
Dissolved	Analysis	9315		1			537058	11/17/21 08:54	ANW	TAL SL
Instrument ID: GFPCPURPLE										
Dissolved	Prep	PrecSep_0			750.05 mL	1.0 g	533458	10/25/21 10:47	BMP	TAL SL
Dissolved	Analysis	9320		1			536881	11/16/21 16:38	FLC	TAL SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			542146	12/15/21 02:21	MLK	TAL SL
Instrument ID: NOEQUIP										

Laboratory References:

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

Analyst References:

Lab: TAL SL

Batch Type: Prep

BMP = Bailey Pinette

LPS = Lauren Szostak

Batch Type: Analysis

ANW = Amber Woods

FLC = Fernando Cruz

MLK = Micha Korrinhizer

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-1-1'
Date Collected: 10/13/21 15:20
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-1
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.145	U	0.272	0.272	1.00	0.478	pCi/L	10/19/21 13:37	11/12/21 12:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.9		40 - 110					10/19/21 13:37	11/12/21 12:25	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0414	U	0.451	0.451	1.00	0.818	pCi/L	10/19/21 14:46	11/11/21 17:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.9		40 - 110					10/19/21 14:46	11/11/21 17:29	1
Y Carrier	75.5		40 - 110					10/19/21 14:46	11/11/21 17:29	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.103	U	0.527	0.527	5.00	0.818	pCi/L		12/15/21 02:19	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-1-1' FF

Lab Sample ID: 180-128482-2

Date Collected: 10/13/21 15:30

Matrix: Water

Date Received: 10/14/21 09:15

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0451	U	0.295	0.295	1.00	0.560	pCi/L	10/19/21 13:37	11/12/21 12:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.7		40 - 110					10/19/21 13:37	11/12/21 12:25	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.355	U	0.431	0.432	1.00	0.712	pCi/L	10/19/21 14:46	11/11/21 17:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.7		40 - 110					10/19/21 14:46	11/11/21 17:30	1
Y Carrier	75.9		40 - 110					10/19/21 14:46	11/11/21 17:30	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.401	U	0.522	0.523	5.00	0.712	pCi/L		12/15/21 02:21	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-1-7'
Date Collected: 10/13/21 15:40
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-3
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.257	U	0.299	0.300	1.00	0.490	pCi/L	10/19/21 13:37	11/12/21 12:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.1		40 - 110					10/19/21 13:37	11/12/21 12:25	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.104	U G	0.594	0.594	1.00	1.08	pCi/L	10/19/21 14:46	11/11/21 17:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.1		40 - 110					10/19/21 14:46	11/11/21 17:30	1
Y Carrier	55.7		40 - 110					10/19/21 14:46	11/11/21 17:30	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.153	U	0.665	0.665	5.00	1.08	pCi/L		12/15/21 02:19	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-1-7' FF

Lab Sample ID: 180-128482-4

Date Collected: 10/13/21 15:50

Matrix: Water

Date Received: 10/14/21 09:15

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0685	U	0.226	0.226	1.00	0.424	pCi/L	10/19/21 13:37	11/12/21 12:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.9		40 - 110					10/19/21 13:37	11/12/21 12:26	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.327	U	0.508	0.509	1.00	0.853	pCi/L	10/19/21 14:46	11/11/21 17:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.9		40 - 110					10/19/21 14:46	11/11/21 17:30	1
Y Carrier	81.9		40 - 110					10/19/21 14:46	11/11/21 17:30	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.395	U	0.556	0.557	5.00	0.853	pCi/L		12/15/21 02:21	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-3-1'
Date Collected: 10/13/21 07:46
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-5
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.116	U G	0.470	0.470	1.00	1.02	pCi/L	10/19/21 13:37	11/12/21 21:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	37.3	X	40 - 110					10/19/21 13:37	11/12/21 21:07	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.163	U *	0.299	0.300	1.00	0.512	pCi/L	11/12/21 10:53	11/18/21 13:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.3		40 - 110					11/12/21 10:53	11/18/21 13:29	1
Y Carrier	85.6		40 - 110					11/12/21 10:53	11/18/21 13:29	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0470	U	0.557	0.558	5.00	1.02	pCi/L		12/15/21 02:19	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-3-1' FF

Lab Sample ID: 180-128482-6

Date Collected: 10/13/21 07:56

Matrix: Water

Date Received: 10/14/21 09:15

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.285	U	0.305	0.306	1.00	0.491	pCi/L	10/19/21 13:37	11/12/21 12:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.8		40 - 110					10/19/21 13:37	11/12/21 12:26	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.418	U	0.449	0.451	1.00	0.735	pCi/L	10/19/21 14:46	11/11/21 17:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.8		40 - 110					10/19/21 14:46	11/11/21 17:31	1
Y Carrier	83.4		40 - 110					10/19/21 14:46	11/11/21 17:31	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.703	U	0.543	0.545	5.00	0.735	pCi/L		12/15/21 02:21	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-3-4'
Date Collected: 10/13/21 08:24
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-7
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.149	U	0.322	0.322	1.00	0.574	pCi/L	10/19/21 13:37	11/12/21 12:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.2		40 - 110					10/19/21 13:37	11/12/21 12:26	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.700	U G	0.637	0.641	1.00	1.03	pCi/L	10/19/21 14:46	11/11/21 17:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.2		40 - 110					10/19/21 14:46	11/11/21 17:31	1
Y Carrier	82.6		40 - 110					10/19/21 14:46	11/11/21 17:31	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.849	U	0.714	0.717	5.00	1.03	pCi/L		12/15/21 02:19	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-3-4' FF

Lab Sample ID: 180-128482-8

Date Collected: 10/13/21 08:34

Matrix: Water

Date Received: 10/14/21 09:15

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.212	U	0.456	0.457	1.00	0.808	pCi/L	10/19/21 13:37	11/12/21 12:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	52.8		40 - 110					10/19/21 13:37	11/12/21 12:26	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.828	U G	0.661	0.665	1.00	1.30	pCi/L	10/19/21 14:46	11/11/21 17:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	52.8		40 - 110					10/19/21 14:46	11/11/21 17:33	1
Y Carrier	78.5		40 - 110					10/19/21 14:46	11/11/21 17:33	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	-0.616	U	0.803	0.807	5.00	1.30	pCi/L		12/15/21 02:21	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-2-1'
Date Collected: 10/13/21 16:10
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-9
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.477	U	0.409	0.411	1.00	0.618	pCi/L	10/19/21 13:37	11/12/21 12:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	51.3		40 - 110					10/19/21 13:37	11/12/21 12:28	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.110	U G	0.724	0.724	1.00	1.27	pCi/L	10/19/21 14:46	11/11/21 17:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	51.3		40 - 110					10/19/21 14:46	11/11/21 17:33	1
Y Carrier	77.8		40 - 110					10/19/21 14:46	11/11/21 17:33	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.587	U	0.832	0.833	5.00	1.27	pCi/L		12/15/21 02:19	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-2-1' FF

Lab Sample ID: 180-128482-10

Date Collected: 10/13/21 16:20

Matrix: Water

Date Received: 10/14/21 09:15

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.109	U	0.291	0.291	1.00	0.525	pCi/L	10/19/21 13:37	11/12/21 12:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.5		40 - 110					10/19/21 13:37	11/12/21 12:28	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.550	U	0.459	0.461	1.00	0.730	pCi/L	10/19/21 14:46	11/11/21 17:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.5		40 - 110					10/19/21 14:46	11/11/21 17:33	1
Y Carrier	81.1		40 - 110					10/19/21 14:46	11/11/21 17:33	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.659	U	0.543	0.545	5.00	0.730	pCi/L		12/15/21 02:21	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-2-7'
Date Collected: 10/13/21 16:30
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-11
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.206	U	0.325	0.325	1.00	0.556	pCi/L	10/19/21 13:37	11/12/21 12:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.7		40 - 110					10/19/21 13:37	11/12/21 12:29	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0541	U	0.446	0.446	1.00	0.793	pCi/L	10/19/21 14:46	11/11/21 17:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.7		40 - 110					10/19/21 14:46	11/11/21 17:34	1
Y Carrier	82.6		40 - 110					10/19/21 14:46	11/11/21 17:34	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.260	U	0.552	0.552	5.00	0.793	pCi/L		12/15/21 02:19	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-2-7' FF

Lab Sample ID: 180-128482-12

Date Collected: 10/13/21 16:40

Matrix: Water

Date Received: 10/14/21 09:15

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.212	U	0.257	0.258	1.00	0.423	pCi/L	10/19/21 13:37	11/12/21 12:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.0		40 - 110					10/19/21 13:37	11/12/21 12:29	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0708	U	0.376	0.376	1.00	0.685	pCi/L	10/19/21 14:46	11/11/21 17:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.0		40 - 110					10/19/21 14:46	11/11/21 17:34	1
Y Carrier	82.2		40 - 110					10/19/21 14:46	11/11/21 17:34	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.141	U	0.455	0.456	5.00	0.685	pCi/L		12/15/21 02:21	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-4-1.5

Lab Sample ID: 180-128482-13

Date Collected: 10/13/21 08:20

Matrix: Water

Date Received: 10/14/21 09:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.133	U	0.195	0.196	1.00	0.466	pCi/L	10/19/21 13:37	11/12/21 12:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.7		40 - 110					10/19/21 13:37	11/12/21 12:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.151	U	0.453	0.453	1.00	0.842	pCi/L	10/19/21 14:46	11/11/21 17:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.7		40 - 110					10/19/21 14:46	11/11/21 17:34	1
Y Carrier	80.0		40 - 110					10/19/21 14:46	11/11/21 17:34	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.283	U	0.493	0.494	5.00	0.842	pCi/L		12/15/21 02:19	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-4-1.5 FF

Lab Sample ID: 180-128482-14

Date Collected: 10/13/21 08:30

Matrix: Water

Date Received: 10/14/21 09:15

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.583		0.412	0.415	1.00	0.583	pCi/L	10/19/21 13:37	11/12/21 12:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	52.8		40 - 110					10/19/21 13:37	11/12/21 12:30	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.726	U G	0.720	0.723	1.00	1.17	pCi/L	10/19/21 14:46	11/11/21 17:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	52.8		40 - 110					10/19/21 14:46	11/11/21 17:34	1
Y Carrier	81.1		40 - 110					10/19/21 14:46	11/11/21 17:34	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.31		0.830	0.834	5.00	1.17	pCi/L		12/15/21 02:21	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-5-1
Date Collected: 10/13/21 11:00
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-15
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.152	U	0.321	0.322	1.00	0.575	pCi/L	10/19/21 13:37	11/12/21 12:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	58.5		40 - 110					10/19/21 13:37	11/12/21 12:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.472	U G	0.634	0.636	1.00	1.06	pCi/L	10/19/21 14:46	11/11/21 17:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	58.5		40 - 110					10/19/21 14:46	11/11/21 17:34	1
Y Carrier	75.9		40 - 110					10/19/21 14:46	11/11/21 17:34	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.624	U	0.711	0.713	5.00	1.06	pCi/L		12/15/21 02:19	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-5-1 FF

Lab Sample ID: 180-128482-16

Date Collected: 10/13/21 11:10

Matrix: Water

Date Received: 10/14/21 09:15

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0174	U	0.189	0.189	1.00	0.382	pCi/L	10/25/21 09:26	11/16/21 20:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		40 - 110					10/25/21 09:26	11/16/21 20:51	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0692	U	0.420	0.420	1.00	0.755	pCi/L	10/25/21 10:07	11/15/21 14:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		40 - 110					10/25/21 10:07	11/15/21 14:19	1
Y Carrier	80.4		40 - 110					10/25/21 10:07	11/15/21 14:19	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	-0.0866	U	0.461	0.461	5.00	0.755	pCi/L		12/15/21 02:21	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-5-13

Lab Sample ID: 180-128482-17

Date Collected: 10/13/21 11:20

Matrix: Water

Date Received: 10/14/21 09:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.212	U	0.289	0.289	1.00	0.485	pCi/L	10/25/21 09:26	11/16/21 20:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.5		40 - 110					10/25/21 09:26	11/16/21 20:51	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.00913	U	0.458	0.458	1.00	0.821	pCi/L	10/25/21 10:07	11/15/21 14:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.5		40 - 110					10/25/21 10:07	11/15/21 14:20	1
Y Carrier	80.0		40 - 110					10/25/21 10:07	11/15/21 14:20	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.221	U	0.542	0.542	5.00	0.821	pCi/L		12/15/21 02:19	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-5-13 FF

Lab Sample ID: 180-128482-18

Date Collected: 10/13/21 11:30

Matrix: Water

Date Received: 10/14/21 09:15

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0843	U	0.177	0.178	1.00	0.318	pCi/L	10/25/21 09:26	11/16/21 20:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					10/25/21 09:26	11/16/21 20:52	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.608	U	0.443	0.447	1.00	0.693	pCi/L	10/25/21 10:07	11/15/21 14:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					10/25/21 10:07	11/15/21 14:20	1
Y Carrier	65.4		40 - 110					10/25/21 10:07	11/15/21 14:20	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.692	U	0.477	0.481	5.00	0.693	pCi/L		12/15/21 02:21	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-6-1
Date Collected: 10/13/21 09:25
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-19
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.301	U	0.260	0.261	1.00	0.392	pCi/L	10/25/21 09:26	11/16/21 20:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.3		40 - 110					10/25/21 09:26	11/16/21 20:52	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.534	U	0.459	0.462	1.00	0.733	pCi/L	10/25/21 10:07	11/15/21 14:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.3		40 - 110					10/25/21 10:07	11/15/21 14:20	1
Y Carrier	79.3		40 - 110					10/25/21 10:07	11/15/21 14:20	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.835		0.528	0.531	5.00	0.733	pCi/L		12/15/21 02:19	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-6-1 FF

Lab Sample ID: 180-128482-20

Date Collected: 10/13/21 09:30

Matrix: Water

Date Received: 10/14/21 09:15

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0711	U	0.215	0.215	1.00	0.398	pCi/L	10/25/21 09:26	11/16/21 20:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.5		40 - 110					10/25/21 09:26	11/16/21 20:52	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.244	U	0.406	0.407	1.00	0.767	pCi/L	10/25/21 10:07	11/15/21 14:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.5		40 - 110					10/25/21 10:07	11/15/21 14:20	1
Y Carrier	80.4		40 - 110					10/25/21 10:07	11/15/21 14:20	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	-0.173	U	0.459	0.460	5.00	0.767	pCi/L		12/15/21 02:21	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-6-9.5

Lab Sample ID: 180-128482-21

Date Collected: 10/13/21 09:50

Matrix: Water

Date Received: 10/14/21 09:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0726	U	0.220	0.220	1.00	0.471	pCi/L	10/25/21 09:26	11/16/21 20:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	65.5		40 - 110					10/25/21 09:26	11/16/21 20:52	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.47		0.612	0.627	1.00	0.848	pCi/L	10/25/21 10:07	11/15/21 14:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	65.5		40 - 110					10/25/21 10:07	11/15/21 14:20	1
Y Carrier	72.5		40 - 110					10/25/21 10:07	11/15/21 14:20	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.40		0.650	0.664	5.00	0.848	pCi/L		12/15/21 02:19	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-6-9.5 FF

Lab Sample ID: 180-128482-22

Date Collected: 10/13/21 10:00

Matrix: Water

Date Received: 10/14/21 09:15

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.120	U	0.230	0.230	1.00	0.405	pCi/L	10/25/21 09:26	11/16/21 20:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.5		40 - 110					10/25/21 09:26	11/16/21 20:52	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.845		0.489	0.495	1.00	0.739	pCi/L	10/25/21 10:07	11/15/21 14:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.5		40 - 110					10/25/21 10:07	11/15/21 14:20	1
Y Carrier	72.9		40 - 110					10/25/21 10:07	11/15/21 14:20	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.965		0.540	0.546	5.00	0.739	pCi/L		12/15/21 02:21	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-9-1
Date Collected: 10/13/21 11:50
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-23
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0345	U	0.180	0.180	1.00	0.347	pCi/L	10/25/21 09:26	11/16/21 20:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		40 - 110					10/25/21 09:26	11/16/21 20:52	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.352	U	0.413	0.414	1.00	0.680	pCi/L	10/25/21 10:07	11/15/21 14:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		40 - 110					10/25/21 10:07	11/15/21 14:20	1
Y Carrier	80.7		40 - 110					10/25/21 10:07	11/15/21 14:20	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.387	U	0.451	0.451	5.00	0.680	pCi/L		12/15/21 02:19	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-9-1 FF

Lab Sample ID: 180-128482-24

Date Collected: 10/13/21 12:00

Matrix: Water

Date Received: 10/14/21 09:15

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.203	U	0.239	0.239	1.00	0.391	pCi/L	10/25/21 09:26	11/16/21 20:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.0		40 - 110					10/25/21 09:26	11/16/21 20:52	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.807		0.455	0.461	1.00	0.677	pCi/L	10/25/21 10:07	11/15/21 14:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.0		40 - 110					10/25/21 10:07	11/15/21 14:21	1
Y Carrier	78.5		40 - 110					10/25/21 10:07	11/15/21 14:21	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.01		0.514	0.519	5.00	0.677	pCi/L		12/15/21 02:21	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-9-4
 Date Collected: 10/13/21 12:10
 Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-25
 Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0625	U	0.251	0.251	1.00	0.464	pCi/L	10/25/21 09:26	11/16/21 20:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.0		40 - 110					10/25/21 09:26	11/16/21 20:53	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.907		0.520	0.527	1.00	0.796	pCi/L	10/25/21 10:07	11/15/21 14:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.0		40 - 110					10/25/21 10:07	11/15/21 14:21	1
Y Carrier	81.1		40 - 110					10/25/21 10:07	11/15/21 14:21	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.970		0.577	0.584	5.00	0.796	pCi/L		12/15/21 02:19	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-9-4 FF

Lab Sample ID: 180-128482-26

Date Collected: 10/13/21 12:20

Matrix: Water

Date Received: 10/14/21 09:15

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.171	U	0.270	0.270	1.00	0.463	pCi/L	10/25/21 09:26	11/16/21 20:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.0		40 - 110					10/25/21 09:26	11/16/21 20:53	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.311	U	0.397	0.398	1.00	0.659	pCi/L	10/25/21 10:07	11/15/21 14:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.0		40 - 110					10/25/21 10:07	11/15/21 14:21	1
Y Carrier	82.6		40 - 110					10/25/21 10:07	11/15/21 14:21	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.482	U	0.480	0.481	5.00	0.659	pCi/L		12/15/21 02:21	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-10-2

Lab Sample ID: 180-128482-27

Date Collected: 10/13/21 12:40

Matrix: Water

Date Received: 10/14/21 09:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.207	U	0.282	0.282	1.00	0.473	pCi/L	10/25/21 09:26	11/16/21 20:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.3		40 - 110					10/25/21 09:26	11/16/21 20:54	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.478	U	0.450	0.452	1.00	0.726	pCi/L	10/25/21 10:07	11/15/21 14:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.3		40 - 110					10/25/21 10:07	11/15/21 14:21	1
Y Carrier	79.3		40 - 110					10/25/21 10:07	11/15/21 14:21	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.684	U	0.531	0.533	5.00	0.726	pCi/L		12/15/21 02:19	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-10-2 FF

Lab Sample ID: 180-128482-28

Date Collected: 10/13/21 12:50

Matrix: Water

Date Received: 10/14/21 09:15

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0281	U	0.207	0.207	1.00	0.395	pCi/L	10/25/21 09:26	11/16/21 20:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.0		40 - 110					10/25/21 09:26	11/16/21 20:54	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.618	U	0.517	0.520	1.00	0.830	pCi/L	10/25/21 10:07	11/15/21 14:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.0		40 - 110					10/25/21 10:07	11/15/21 14:21	1
Y Carrier	83.4		40 - 110					10/25/21 10:07	11/15/21 14:21	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.646	U	0.557	0.560	5.00	0.830	pCi/L		12/15/21 02:21	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-11-2

Lab Sample ID: 180-128482-29

Date Collected: 10/13/21 13:10

Matrix: Water

Date Received: 10/14/21 09:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0935	U	0.199	0.200	1.00	0.430	pCi/L	10/25/21 09:26	11/16/21 20:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.0		40 - 110					10/25/21 09:26	11/16/21 20:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.191	U	0.482	0.482	1.00	0.826	pCi/L	10/25/21 10:07	11/15/21 14:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.0		40 - 110					10/25/21 10:07	11/15/21 14:24	1
Y Carrier	79.6		40 - 110					10/25/21 10:07	11/15/21 14:24	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0975	U	0.521	0.522	5.00	0.826	pCi/L		12/15/21 02:19	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-11-2 FF

Lab Sample ID: 180-128482-30

Date Collected: 10/13/21 13:20

Matrix: Water

Date Received: 10/14/21 09:15

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0240	U	0.192	0.192	1.00	0.367	pCi/L	10/25/21 09:26	11/16/21 20:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					10/25/21 09:26	11/16/21 20:55	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.470	U	0.380	0.382	1.00	0.605	pCi/L	10/25/21 10:07	11/15/21 14:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					10/25/21 10:07	11/15/21 14:24	1
Y Carrier	86.0		40 - 110					10/25/21 10:07	11/15/21 14:24	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.494	U	0.426	0.428	5.00	0.605	pCi/L		12/15/21 02:21	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-12-2

Lab Sample ID: 180-128482-31

Date Collected: 10/13/21 13:40

Matrix: Water

Date Received: 10/14/21 09:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.127	U	0.108	0.109	1.00	0.328	pCi/L	10/25/21 09:26	11/16/21 21:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.5		40 - 110					10/25/21 09:26	11/16/21 21:33	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.217	U	0.429	0.430	1.00	0.733	pCi/L	10/25/21 10:07	11/15/21 14:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.5		40 - 110					10/25/21 10:07	11/15/21 14:24	1
Y Carrier	82.6		40 - 110					10/25/21 10:07	11/15/21 14:24	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0901	U	0.442	0.444	5.00	0.733	pCi/L		12/15/21 02:19	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-12-2 FF

Lab Sample ID: 180-128482-32

Date Collected: 10/13/21 13:50

Matrix: Water

Date Received: 10/14/21 09:15

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.159	U	0.185	0.186	1.00	0.301	pCi/L	10/25/21 09:26	11/16/21 21:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		40 - 110					10/25/21 09:26	11/16/21 21:34	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.128	U	0.437	0.437	1.00	0.760	pCi/L	10/25/21 10:07	11/15/21 14:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		40 - 110					10/25/21 10:07	11/15/21 14:24	1
Y Carrier	68.0		40 - 110					10/25/21 10:07	11/15/21 14:24	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.287	U	0.475	0.475	5.00	0.760	pCi/L		12/15/21 02:21	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-13-1

Lab Sample ID: 180-128482-33

Date Collected: 10/13/21 12:26

Matrix: Water

Date Received: 10/14/21 09:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0230	U	0.165	0.165	1.00	0.343	pCi/L	10/25/21 09:26	11/16/21 21:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		40 - 110					10/25/21 09:26	11/16/21 21:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.130	U	0.353	0.353	1.00	0.611	pCi/L	10/25/21 10:07	11/15/21 14:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		40 - 110					10/25/21 10:07	11/15/21 14:24	1
Y Carrier	83.4		40 - 110					10/25/21 10:07	11/15/21 14:24	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.107	U	0.390	0.390	5.00	0.611	pCi/L		12/15/21 02:19	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-13-1 FF

Lab Sample ID: 180-128482-34

Date Collected: 10/13/21 12:36

Matrix: Water

Date Received: 10/14/21 09:15

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0454	U	0.162	0.162	1.00	0.311	pCi/L	10/25/21 09:26	11/16/21 21:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					10/25/21 09:26	11/16/21 21:34	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.452	U	0.390	0.392	1.00	0.624	pCi/L	10/25/21 10:07	11/15/21 14:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					10/25/21 10:07	11/15/21 14:24	1
Y Carrier	88.6		40 - 110					10/25/21 10:07	11/15/21 14:24	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.498	U	0.422	0.424	5.00	0.624	pCi/L		12/15/21 02:21	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-14-1.5

Lab Sample ID: 180-128482-35

Date Collected: 10/13/21 09:59

Matrix: Water

Date Received: 10/14/21 09:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00844	U	0.177	0.177	1.00	0.351	pCi/L	10/25/21 09:26	11/16/21 21:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		40 - 110					10/25/21 09:26	11/16/21 21:32	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.178	U	0.340	0.340	1.00	0.579	pCi/L	10/25/21 10:07	11/15/21 14:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		40 - 110					10/25/21 10:07	11/15/21 14:25	1
Y Carrier	87.1		40 - 110					10/25/21 10:07	11/15/21 14:25	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.186	U	0.383	0.383	5.00	0.579	pCi/L		12/15/21 02:19	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-14-1.5 FF

Lab Sample ID: 180-128482-36

Date Collected: 10/13/21 10:09

Matrix: Water

Date Received: 10/14/21 09:15

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.347	U	0.336	0.338	1.00	0.532	pCi/L	10/25/21 10:10	11/17/21 08:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					10/25/21 10:10	11/17/21 08:47	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.683		0.311	0.318	1.00	0.434	pCi/L	10/25/21 10:47	11/16/21 16:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					10/25/21 10:47	11/16/21 16:29	1
Y Carrier	84.1		40 - 110					10/25/21 10:47	11/16/21 16:29	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.03		0.458	0.464	5.00	0.532	pCi/L		12/15/21 02:21	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-15-1.5

Lab Sample ID: 180-128482-37

Date Collected: 10/13/21 10:42

Matrix: Water

Date Received: 10/14/21 09:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.149	U	0.322	0.323	1.00	0.575	pCi/L	10/25/21 10:10	11/17/21 08:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.3		40 - 110					10/25/21 10:10	11/17/21 08:47	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.399	U	0.462	0.463	1.00	0.761	pCi/L	10/25/21 10:47	11/16/21 16:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.3		40 - 110					10/25/21 10:47	11/16/21 16:29	1
Y Carrier	77.4		40 - 110					10/25/21 10:47	11/16/21 16:29	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.547	U	0.563	0.565	5.00	0.761	pCi/L		12/15/21 02:19	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-15-1.5 FF

Lab Sample ID: 180-128482-38

Date Collected: 10/13/21 10:52

Matrix: Water

Date Received: 10/14/21 09:15

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.334	U	0.286	0.288	1.00	0.433	pCi/L	10/25/21 10:10	11/17/21 08:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.3		40 - 110					10/25/21 10:10	11/17/21 08:50	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.680		0.379	0.384	1.00	0.567	pCi/L	10/25/21 10:47	11/16/21 16:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.3		40 - 110					10/25/21 10:47	11/16/21 16:29	1
Y Carrier	85.2		40 - 110					10/25/21 10:47	11/16/21 16:29	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.01		0.475	0.480	5.00	0.567	pCi/L		12/15/21 02:21	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-16-1.5

Lab Sample ID: 180-128482-39

Date Collected: 10/13/21 11:24

Matrix: Water

Date Received: 10/14/21 09:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.381	U	0.300	0.302	1.00	0.442	pCi/L	10/25/21 10:10	11/17/21 08:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.5		40 - 110					10/25/21 10:10	11/17/21 08:51	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.407	U	0.347	0.349	1.00	0.552	pCi/L	10/25/21 10:47	11/16/21 16:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.5		40 - 110					10/25/21 10:47	11/16/21 16:29	1
Y Carrier	84.5		40 - 110					10/25/21 10:47	11/16/21 16:29	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.788		0.459	0.462	5.00	0.552	pCi/L		12/15/21 02:19	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-16-1.5 FF

Lab Sample ID: 180-128482-40

Date Collected: 10/13/21 11:34

Matrix: Water

Date Received: 10/14/21 09:15

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0658	U	0.227	0.227	1.00	0.423	pCi/L	10/25/21 10:10	11/17/21 08:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					10/25/21 10:10	11/17/21 08:51	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.422	U	0.326	0.328	1.00	0.514	pCi/L	10/25/21 10:47	11/16/21 16:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					10/25/21 10:47	11/16/21 16:29	1
Y Carrier	87.9		40 - 110					10/25/21 10:47	11/16/21 16:29	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.488	U	0.397	0.399	5.00	0.514	pCi/L		12/15/21 02:21	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-17-1

Lab Sample ID: 180-128482-41

Date Collected: 10/13/21 09:16

Matrix: Water

Date Received: 10/14/21 09:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.350	U	0.283	0.285	1.00	0.422	pCi/L	10/25/21 10:10	11/17/21 08:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.0		40 - 110					10/25/21 10:10	11/17/21 08:51	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.453	U	0.365	0.367	1.00	0.578	pCi/L	10/25/21 10:47	11/16/21 16:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.0		40 - 110					10/25/21 10:47	11/16/21 16:30	1
Y Carrier	83.7		40 - 110					10/25/21 10:47	11/16/21 16:30	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.803		0.462	0.465	5.00	0.578	pCi/L		12/15/21 02:19	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: SW-17-1 FF

Lab Sample ID: 180-128482-42

Date Collected: 10/13/21 09:26

Matrix: Water

Date Received: 10/14/21 09:15

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.209	U	0.279	0.280	1.00	0.469	pCi/L	10/25/21 10:10	11/17/21 08:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.5		40 - 110					10/25/21 10:10	11/17/21 08:51	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.285	U	0.357	0.358	1.00	0.592	pCi/L	10/25/21 10:47	11/16/21 16:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.5		40 - 110					10/25/21 10:47	11/16/21 16:30	1
Y Carrier	85.2		40 - 110					10/25/21 10:47	11/16/21 16:30	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.493	U	0.453	0.454	5.00	0.592	pCi/L		12/15/21 02:21	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: EB-01

Lab Sample ID: 180-128482-43

Date Collected: 10/13/21 14:31

Matrix: Water

Date Received: 10/14/21 09:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.204	U	0.173	0.174	1.00	0.255	pCi/L	10/25/21 10:10	11/17/21 08:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.3		40 - 110					10/25/21 10:10	11/17/21 08:52	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.132	U	0.240	0.241	1.00	0.408	pCi/L	10/25/21 10:47	11/16/21 16:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.3		40 - 110					10/25/21 10:47	11/16/21 16:37	1
Y Carrier	86.4		40 - 110					10/25/21 10:47	11/16/21 16:37	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.336	U	0.296	0.297	5.00	0.408	pCi/L		12/15/21 02:19	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: EB-02

Lab Sample ID: 180-128482-44

Date Collected: 10/13/21 15:57

Matrix: Water

Date Received: 10/14/21 09:15

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.172	U	0.167	0.168	1.00	0.256	pCi/L	10/25/21 10:10	11/17/21 08:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		40 - 110					10/25/21 10:10	11/17/21 08:52	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.101	U	0.232	0.232	1.00	0.400	pCi/L	10/25/21 10:47	11/16/21 16:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		40 - 110					10/25/21 10:47	11/16/21 16:38	1
Y Carrier	86.7		40 - 110					10/25/21 10:47	11/16/21 16:38	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.274	U	0.286	0.286	5.00	0.400	pCi/L		12/15/21 02:21	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: DUP-01

Lab Sample ID: 180-128482-45

Date Collected: 10/13/21 13:45

Matrix: Water

Date Received: 10/14/21 09:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0102	U	0.246	0.246	1.00	0.502	pCi/L	10/25/21 10:10	11/17/21 08:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	64.0		40 - 110					10/25/21 10:10	11/17/21 08:52	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.969		0.506	0.514	1.00	0.751	pCi/L	10/25/21 10:47	11/16/21 16:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	64.0		40 - 110					10/25/21 10:47	11/16/21 16:38	1
Y Carrier	86.4		40 - 110					10/25/21 10:47	11/16/21 16:38	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.979		0.563	0.570	5.00	0.751	pCi/L		12/15/21 02:19	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: DUP-01 FF

Lab Sample ID: 180-128482-46

Date Collected: 10/13/21 13:55

Matrix: Water

Date Received: 10/14/21 09:15

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.469	U	0.368	0.370	1.00	0.556	pCi/L	10/25/21 10:10	11/17/21 08:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.3		40 - 110					10/25/21 10:10	11/17/21 08:54	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.394	U	0.397	0.399	1.00	0.645	pCi/L	10/25/21 10:47	11/16/21 16:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.3		40 - 110					10/25/21 10:47	11/16/21 16:38	1
Y Carrier	87.1		40 - 110					10/25/21 10:47	11/16/21 16:38	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.863		0.541	0.544	5.00	0.645	pCi/L		12/15/21 02:21	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: DUP-02
Date Collected: 10/13/21 14:20
Date Received: 10/14/21 09:15

Lab Sample ID: 180-128482-47
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.440	U	0.386	0.388	1.00	0.597	pCi/L	10/25/21 10:10	11/17/21 08:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	66.3		40 - 110					10/25/21 10:10	11/17/21 08:54	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.745	U	0.595	0.599	1.00	0.949	pCi/L	10/25/21 10:47	11/16/21 16:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	66.3		40 - 110					10/25/21 10:47	11/16/21 16:38	1
Y Carrier	80.0		40 - 110					10/25/21 10:47	11/16/21 16:38	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.19		0.709	0.714	5.00	0.949	pCi/L		12/15/21 02:19	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Client Sample ID: DUP-02 FF

Lab Sample ID: 180-128482-48

Date Collected: 10/13/21 14:30

Matrix: Water

Date Received: 10/14/21 09:15

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.272	U	0.301	0.302	1.00	0.489	pCi/L	10/25/21 10:10	11/17/21 08:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.5		40 - 110					10/25/21 10:10	11/17/21 08:54	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.112	U	0.295	0.295	1.00	0.554	pCi/L	10/25/21 10:47	11/16/21 16:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.5		40 - 110					10/25/21 10:47	11/16/21 16:38	1
Y Carrier	86.0		40 - 110					10/25/21 10:47	11/16/21 16:38	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.160	U	0.421	0.422	5.00	0.554	pCi/L		12/15/21 02:21	1

QC Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-532643/24-A
Matrix: Water
Analysis Batch: 536353

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 532643

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.3342	U	0.286	0.287	1.00	0.427	pCi/L	10/19/21 13:37	11/12/21 12:30	1
Carrier	MB	MB	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	%Yield	Qualifier	40 - 110							
	72.3				10/19/21 13:37	11/12/21 12:30	1			

Lab Sample ID: LCS 160-532643/1-A
Matrix: Water
Analysis Batch: 536236

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 532643

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	15.1	14.40		1.78	1.00	0.447	pCi/L	95	75 - 125
Carrier	LCS	LCS	Limits		Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier	40 - 110						
	86.0				10/19/21 13:37	11/12/21 12:30	1		

Lab Sample ID: MB 160-533325/23-A
Matrix: Water
Analysis Batch: 536882

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 533325

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.01253	U	0.172	0.172	1.00	0.341	pCi/L	10/25/21 09:26	11/16/21 21:32	1
Carrier	MB	MB	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	%Yield	Qualifier	40 - 110							
	98.0				10/25/21 09:26	11/16/21 21:32	1			

Lab Sample ID: LCS 160-533325/1-A
Matrix: Water
Analysis Batch: 536880

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 533325

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	15.1	14.78		1.77	1.00	0.322	pCi/L	98	75 - 125
Carrier	LCS	LCS	Limits		Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier	40 - 110						
	83.5				10/25/21 09:26	11/16/21 21:32	1		

Lab Sample ID: LCSD 160-533325/2-A
Matrix: Water
Analysis Batch: 536881

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 533325

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER
				Uncert. (2σ+/-)							Limit
Radium-226	15.1	13.95		1.67	1.00	0.393	pCi/L	92	75 - 125	0.24	1

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

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

Lab Sample ID: LCSD 160-533325/2-A
Matrix: Water
Analysis Batch: 536881

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 533325

	LCS D	LCS D	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	92.0		40 - 110

Lab Sample ID: MB 160-533331/24-A
Matrix: Water
Analysis Batch: 537059

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 533331

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.2429	U	0.285	0.286	1.00	0.466	pCi/L	10/25/21 10:10	11/17/21 10:53	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.0		40 - 110					10/25/21 10:10	11/17/21 10:53	1

Lab Sample ID: LCS 160-533331/1-A
Matrix: Water
Analysis Batch: 537059

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 533331

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	15.1	13.61		2.05	1.00	0.790	pCi/L	90	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	43.8		40 - 110						

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-532651/24-A
Matrix: Water
Analysis Batch: 536054

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 532651

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.4035	U	0.471	0.473	1.00	0.776	pCi/L	10/19/21 14:46	11/11/21 17:34	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.3		40 - 110					10/19/21 14:46	11/11/21 17:34	1
Y Carrier	80.7		40 - 110					10/19/21 14:46	11/11/21 17:34	1

Lab Sample ID: LCS 160-532651/1-A
Matrix: Water
Analysis Batch: 536055

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 532651

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-228	12.2	14.22		1.69	1.00	0.623	pCi/L	117	75 - 125

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

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

Lab Sample ID: LCS 160-532651/1-A
Matrix: Water
Analysis Batch: 536055

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 532651

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	86.0		40 - 110
Y Carrier	83.4		40 - 110

Lab Sample ID: MB 160-533329/23-A
Matrix: Water
Analysis Batch: 536662

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 533329

Analyte	MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
	Result	Qualifier										
Radium-228	0.02894	U	0.281	0.281	1.00	0.501	pCi/L	10/25/21 10:07	11/15/21 14:25		1	

	MB	MB						Prepared		Analyzed		Dil Fac
Carrier	%Yield	Qualifier	Limits									
Ba Carrier	98.0		40 - 110					10/25/21 10:07	11/15/21 14:25		1	
Y Carrier	90.1		40 - 110					10/25/21 10:07	11/15/21 14:25		1	

Lab Sample ID: LCS 160-533329/1-A
Matrix: Water
Analysis Batch: 536661

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 533329

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
Radium-228	12.2	11.95		1.49	1.00	0.641	pCi/L	98	75 - 125	

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	83.5		40 - 110
Y Carrier	82.6		40 - 110

Lab Sample ID: LCSD 160-533329/2-A
Matrix: Water
Analysis Batch: 536661

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 533329

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		RER	RER Limit
Radium-228	12.2	12.33		1.49	1.00	0.605	pCi/L	101	75 - 125	0.13	1	

	LCSD	LCSD	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	92.0		40 - 110
Y Carrier	83.0		40 - 110

Lab Sample ID: MB 160-533458/24-A
Matrix: Water
Analysis Batch: 536860

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 533458

Analyte	MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
	Result	Qualifier										
Radium-228	0.5710	U	0.398	0.401	1.00	0.619	pCi/L	10/25/21 10:47	11/16/21 16:46		1	

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

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

Lab Sample ID: MB 160-533458/24-A
Matrix: Water
Analysis Batch: 536860

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 533458

Carrier	MB MB		Limits	Prepared		Dil Fac
	%Yield	Qualifier		10/25/21 10:47	11/16/21 16:46	
Ba Carrier	78.0		40 - 110			1
Y Carrier	90.8		40 - 110			1

Lab Sample ID: LCS 160-533458/1-A
Matrix: Water
Analysis Batch: 536883

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 533458

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
									75	125
Radium-228	12.2	14.64		1.98	1.00	0.930	pCi/L	120	75 - 125	

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	43.8		40 - 110
Y Carrier	83.7		40 - 110

Lab Sample ID: MB 160-536395/5-A
Matrix: Water
Analysis Batch: 537275

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 536395

Analyte	MB MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Dil Fac
	Result	Qualifier						11/12/21 10:53	11/18/21 13:29	
Radium-228	-0.2201	U	0.285	0.285	1.00	0.547	pCi/L	11/12/21 10:53	11/18/21 13:29	1

Carrier	MB MB		Limits	Prepared		Dil Fac
	%Yield	Qualifier		11/12/21 10:53	11/18/21 13:29	
Ba Carrier	98.2		40 - 110			1
Y Carrier	85.2		40 - 110			1

Lab Sample ID: LCS 160-536395/1-A
Matrix: Water
Analysis Batch: 537290

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 536395

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
									75	125
Radium-228	12.2	8.398		1.09	1.00	0.474	pCi/L	69	75 - 125	

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	90.9		40 - 110
Y Carrier	86.4		40 - 110

Lab Sample ID: LCSD 160-536395/2-A
Matrix: Water
Analysis Batch: 537275

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 536395

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		RER	Limit
									75	125		
Radium-228	12.2	12.36	*	1.46	1.00	0.515	pCi/L	101	75 - 125	1.55	1	

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

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

Lab Sample ID: LCSD 160-536395/2-A
Matrix: Water
Analysis Batch: 537275

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 536395

Carrier	LCSD		Limits
	%Yield	Qualifier	
Ba Carrier	90.1		40 - 110
Y Carrier	86.0		40 - 110

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QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Rad

Prep Batch: 532643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128482-1	SW-1-1'	Total/NA	Water	PrecSep-21	
180-128482-2	SW-1-1' FF	Dissolved	Water	PrecSep-21	
180-128482-3	SW-1-7'	Total/NA	Water	PrecSep-21	
180-128482-4	SW-1-7' FF	Dissolved	Water	PrecSep-21	
180-128482-5	SW-3-1'	Total/NA	Water	PrecSep-21	
180-128482-6	SW-3-1' FF	Dissolved	Water	PrecSep-21	
180-128482-7	SW-3-4'	Total/NA	Water	PrecSep-21	
180-128482-8	SW-3-4' FF	Dissolved	Water	PrecSep-21	
180-128482-9	SW-2-1'	Total/NA	Water	PrecSep-21	
180-128482-10	SW-2-1' FF	Dissolved	Water	PrecSep-21	
180-128482-11	SW-2-7'	Total/NA	Water	PrecSep-21	
180-128482-12	SW-2-7' FF	Dissolved	Water	PrecSep-21	
180-128482-13	SW-4-1.5	Total/NA	Water	PrecSep-21	
180-128482-14	SW-4-1.5 FF	Dissolved	Water	PrecSep-21	
180-128482-15	SW-5-1	Total/NA	Water	PrecSep-21	
MB 160-532643/24-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-532643/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 532651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128482-1	SW-1-1'	Total/NA	Water	PrecSep_0	
180-128482-2	SW-1-1' FF	Dissolved	Water	PrecSep_0	
180-128482-3	SW-1-7'	Total/NA	Water	PrecSep_0	
180-128482-4	SW-1-7' FF	Dissolved	Water	PrecSep_0	
180-128482-6	SW-3-1' FF	Dissolved	Water	PrecSep_0	
180-128482-7	SW-3-4'	Total/NA	Water	PrecSep_0	
180-128482-8	SW-3-4' FF	Dissolved	Water	PrecSep_0	
180-128482-9	SW-2-1'	Total/NA	Water	PrecSep_0	
180-128482-10	SW-2-1' FF	Dissolved	Water	PrecSep_0	
180-128482-11	SW-2-7'	Total/NA	Water	PrecSep_0	
180-128482-12	SW-2-7' FF	Dissolved	Water	PrecSep_0	
180-128482-13	SW-4-1.5	Total/NA	Water	PrecSep_0	
180-128482-14	SW-4-1.5 FF	Dissolved	Water	PrecSep_0	
180-128482-15	SW-5-1	Total/NA	Water	PrecSep_0	
MB 160-532651/24-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-532651/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 533325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128482-16	SW-5-1 FF	Dissolved	Water	PrecSep-21	
180-128482-17	SW-5-13	Total/NA	Water	PrecSep-21	
180-128482-18	SW-5-13 FF	Dissolved	Water	PrecSep-21	
180-128482-19	SW-6-1	Total/NA	Water	PrecSep-21	
180-128482-20	SW-6-1 FF	Dissolved	Water	PrecSep-21	
180-128482-21	SW-6-9.5	Total/NA	Water	PrecSep-21	
180-128482-22	SW-6-9.5 FF	Dissolved	Water	PrecSep-21	
180-128482-23	SW-9-1	Total/NA	Water	PrecSep-21	
180-128482-24	SW-9-1 FF	Dissolved	Water	PrecSep-21	
180-128482-25	SW-9-4	Total/NA	Water	PrecSep-21	
180-128482-26	SW-9-4 FF	Dissolved	Water	PrecSep-21	
180-128482-27	SW-10-2	Total/NA	Water	PrecSep-21	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Rad (Continued)

Prep Batch: 533325 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128482-28	SW-10-2 FF	Dissolved	Water	PrecSep-21	
180-128482-29	SW-11-2	Total/NA	Water	PrecSep-21	
180-128482-30	SW-11-2 FF	Dissolved	Water	PrecSep-21	
180-128482-31	SW-12-2	Total/NA	Water	PrecSep-21	
180-128482-32	SW-12-2 FF	Dissolved	Water	PrecSep-21	
180-128482-33	SW-13-1	Total/NA	Water	PrecSep-21	
180-128482-34	SW-13-1 FF	Dissolved	Water	PrecSep-21	
180-128482-35	SW-14-1.5	Total/NA	Water	PrecSep-21	
MB 160-533325/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-533325/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-533325/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 533329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128482-16	SW-5-1 FF	Dissolved	Water	PrecSep_0	
180-128482-17	SW-5-13	Total/NA	Water	PrecSep_0	
180-128482-18	SW-5-13 FF	Dissolved	Water	PrecSep_0	
180-128482-19	SW-6-1	Total/NA	Water	PrecSep_0	
180-128482-20	SW-6-1 FF	Dissolved	Water	PrecSep_0	
180-128482-21	SW-6-9.5	Total/NA	Water	PrecSep_0	
180-128482-22	SW-6-9.5 FF	Dissolved	Water	PrecSep_0	
180-128482-23	SW-9-1	Total/NA	Water	PrecSep_0	
180-128482-24	SW-9-1 FF	Dissolved	Water	PrecSep_0	
180-128482-25	SW-9-4	Total/NA	Water	PrecSep_0	
180-128482-26	SW-9-4 FF	Dissolved	Water	PrecSep_0	
180-128482-27	SW-10-2	Total/NA	Water	PrecSep_0	
180-128482-28	SW-10-2 FF	Dissolved	Water	PrecSep_0	
180-128482-29	SW-11-2	Total/NA	Water	PrecSep_0	
180-128482-30	SW-11-2 FF	Dissolved	Water	PrecSep_0	
180-128482-31	SW-12-2	Total/NA	Water	PrecSep_0	
180-128482-32	SW-12-2 FF	Dissolved	Water	PrecSep_0	
180-128482-33	SW-13-1	Total/NA	Water	PrecSep_0	
180-128482-34	SW-13-1 FF	Dissolved	Water	PrecSep_0	
180-128482-35	SW-14-1.5	Total/NA	Water	PrecSep_0	
MB 160-533329/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-533329/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-533329/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 533331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128482-36	SW-14-1.5 FF	Dissolved	Water	PrecSep-21	
180-128482-37	SW-15-1.5	Total/NA	Water	PrecSep-21	
180-128482-38	SW-15-1.5 FF	Dissolved	Water	PrecSep-21	
180-128482-39	SW-16-1.5	Total/NA	Water	PrecSep-21	
180-128482-40	SW-16-1.5 FF	Dissolved	Water	PrecSep-21	
180-128482-41	SW-17-1	Total/NA	Water	PrecSep-21	
180-128482-42	SW-17-1 FF	Dissolved	Water	PrecSep-21	
180-128482-43	EB-01	Total/NA	Water	PrecSep-21	
180-128482-44	EB-02	Dissolved	Water	PrecSep-21	
180-128482-45	DUP-01	Total/NA	Water	PrecSep-21	
180-128482-46	DUP-01 FF	Dissolved	Water	PrecSep-21	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-128482-2

Rad (Continued)

Prep Batch: 533331 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128482-47	DUP-02	Total/NA	Water	PrecSep-21	
180-128482-48	DUP-02 FF	Dissolved	Water	PrecSep-21	
MB 160-533331/24-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-533331/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 533458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128482-36	SW-14-1.5 FF	Dissolved	Water	PrecSep_0	
180-128482-37	SW-15-1.5	Total/NA	Water	PrecSep_0	
180-128482-38	SW-15-1.5 FF	Dissolved	Water	PrecSep_0	
180-128482-39	SW-16-1.5	Total/NA	Water	PrecSep_0	
180-128482-40	SW-16-1.5 FF	Dissolved	Water	PrecSep_0	
180-128482-41	SW-17-1	Total/NA	Water	PrecSep_0	
180-128482-42	SW-17-1 FF	Dissolved	Water	PrecSep_0	
180-128482-43	EB-01	Total/NA	Water	PrecSep_0	
180-128482-44	EB-02	Dissolved	Water	PrecSep_0	
180-128482-45	DUP-01	Total/NA	Water	PrecSep_0	
180-128482-46	DUP-01 FF	Dissolved	Water	PrecSep_0	
180-128482-47	DUP-02	Total/NA	Water	PrecSep_0	
180-128482-48	DUP-02 FF	Dissolved	Water	PrecSep_0	
MB 160-533458/24-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-533458/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 536395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128482-5	SW-3-1'	Total/NA	Water	PrecSep_0	
MB 160-536395/5-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-536395/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCS 160-536395/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
 Pittsburgh, PA 15238
 Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

ATLANTA - Eurofins

Environment Testing
 America

Client Information		Sampler: <i>Box / surles / cotton / evans</i>		Lab PM: Brown, Shali		Carrier Tracking No(s):		COC No:	
Client Contact: SCS Contacts		Phone: <i>850-336-0192</i>		E-Mail: shali.brown@eurofinset.com				Page: <i>1 of 5</i>	
Company: SCS		Analysis Requested						Job #:	
Address: 3535 Colonnade Pkwy Bin S 530 EC		Due Date Requested:		2540C Total Dissolved Solids		300_28Day Chloride Fluoride Sulfate		6020B/7470 Custom 14 (App/II/APPV) + Mercury	
City: Birmingham		TAT Requested (days):		9315_Ra226 Radium 226		9320_Ra228 Radium 228		Combined RAD	
State, Zip: AL, 35243		PO #: SCS10382606		2540C Total Diss. Solids Filtered		Chloride Fluoride Sulfate		6020B/7470 custom 14 APP/II/APPV + Mercury	
Phone: 205-992-6283		WO #:		9315 Ra 226 Radium 226		9320 Ra 228 Radium 228		Combined RAD	
Email: SCS Contacts		Project #: 18020186		Total Number of containers:					
Project Name: Plant Watson		SSOW#:		Preservation Codes:					
Site: Ash Pond				A - HCL		M - Hexane			
				B - NaOH		N - None			
				C - Zn Acetate		O - AshNaO2			
				D - Nitric Acid		P - Na2O4S			
				E - NaHSO4		Q - Na2SO3			
				F - MeOH		R - Na2S2O3			
				G - Amchlor		S - H2SO4			
				H - Ascorbic Acid		T - TSP Dodecahydrate			
				I - Ice		U - Acetone			
				J - DI Water		V - MCAA			
				K - EDTA		W - pH 4-5			
				L - EDA		Z - other (specify)			
				Other:					
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	
								Special Instructions/Note:	
SW-1-1'		10-13-21		1520		G SW			
SW-1-1' FF				1530					
SW-1-7'				1540					
SW-1-7' FF				1550					
SW-3-1'				0746					
SW-3-1' X ^{RA} FF				0756					
SW-3-4'				0824					
SW-3-4' FF				0834					
SW-2-1'				1100					
SW-2-1' FF				1120					
SW-2-7'		↓ RAD		1130		↓ RAD XOH			
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<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					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Mor.				
Deliverable Requested: I, II, III, IV, Other (specify)					Special Instructions/QC Requirements:				
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:			
Relinquished by: <i>[Signature]</i>		Date/Time: 10/13-21 1710		Company: <i>ROH EVS</i>		Received by: <i>[Signature]</i>		Date/Time: <i>ETA P.H 10/14/21</i>	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:					



Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
 Pittsburgh, PA 15238
 Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

ATLANTA Eurofins

Environment Testing
 America

Client Information			Sampler: <i>live</i> / <i>Bratt</i> / <i>collen</i> <i>Hagerdover</i> / <i>surles</i> / <i>evans</i>		Lab PM: Brown, Shali		Carrier Tracking No(s):		COC No:			
Client Contact SCS Contacts			Phone: <i>850-336-0192</i>		E-Mail: shali.brown@eurofinset.com				Page: <i>2 of 5</i>			
Company: SCS			Due Date Requested:		Analysis Requested: <i>2540C Total Dissolved Solids</i> <i>300_28Day Chloride Fluoride Sulfate</i> <i>6020B/7470 Custom 14 (AppIII/APPV) + Mercury</i> <i>931E_Ra226 Radium 226</i> <i>9320_Ra228 Radium 228</i> <i>Combined RAD</i> <i>2540C Total Dissolved Solids, Solids Field Filtered</i> <i>300 Chloride, Fluoride, Sulfate</i> <i>6020B/7470 Custom 14 APP III APP IV + Mercury</i> <i>931E Ra 226 Radium 226</i> <i>9320 Ra 228 Radium 228</i> <i>Combined RAD</i>		Job #		Preservation Codes:			
Address: 3535 Colonnade Pkwy Bin S 530 EC			TAT Requested (days):		Total Number of containers		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)			
City: Birmingham			PO #: SCS10382606									
State, Zip: AL, 35243			WO #:									
Phone: 205-992-6283			Project #: 18020186									
Email: SCS Contacts			SSOW#:									
Project Name: Plant Watson												
Site: Ash Pond												
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, AA=Air)	Field Filtered Sample (Yes or No)	Preservation Code:	Special Instructions/Note:				
SW-2-7' FF		10-13-21	1040	G	SW							
SW-4-1.5			0820			X						
SW-4-1.5 FF			0830					X	X	X	X	
SW-5-1			1100			X		X	X	X	X	
SW-5-1 FF			1110					X	X	X	X	
SW-5-13			1120			X		X	X	X	X	
SW-5-13 FF			1130					X	X	X	X	
SW-6-1			0925			X		X	X	X	X	
SW-6-1 FF			0930					X	X	X	X	
SW-6-9.5			0950			X		X	X	X	X	
SW-6-9.5 FF		<i>POX</i>	<i>1000</i>	<i>POX</i>	<i>POX</i>			X	X	X	X	
Possible Hazard Identification <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) <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)						Special Instructions/QC Requirements:						
Empty Kit Relinquished by:			Date:			Time:			Method of Shipment:			
Relinquished by: <i>[Signature]</i>			Date/Time: <i>10-13-21 1710</i>			Company: <i>ROX ENV.</i>			Received by: <i>[Signature]</i>			
Relinquished by:			Date/Time:			Company:			Received by:			
Relinquished by:			Date/Time:			Company:			Received by:			
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks:						

Chain of Custody Record

Client Information		Sampler: <i>Kirk Hagedorn / Sarah Evans</i>		Lab PM: Brown, Shali		Carrier Tracking No(s):		COC No:		
Client Contact		Phone: <i>850-336-0192</i>		E-Mail: shali.brown@eurofinset.com				Page: <i>3 of 5</i>		
Company: SCS								Job #:		
Address: 3535 Colonnade Pkwy Bin S 530 EC		Due Date Requested:								
City: Birmingham		TAT Requested (days):								
State, Zip: AL 35243		PO #: SCS10382606								
Phone: 205-992-6283		WO #:								
Email: SCS Contacts		Project #: 18020186								
Project Name: Plant Watson		SSOW#:								
Site: Ash Pond										
								Analysis Requested: 2540C Total Diss. Solids Field Filtered 300 Chloride, Fluoride, Sulfate 6020B/7470 Custom 14 (App/In/APP/II + Mercury) 9315 Ra226 Radium 226 9320 Ra228 Radium 228 Combined RAD 2540C Total Diss. Solids Field Filtered 300 Chloride, Fluoride, Sulfate 6020B/7470 Custom 14 (App/In/APP/II + Mercury) 9315 Ra226 Radium 226 9320 Ra228 Radium 228 Combined RAD VFAA		
								Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)		
								Other:		
								Special Instructions/Note:		
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)		
								Field Filtered Sample (Yes or No) 2540C Total Dissolved Solids 300_28Day Chloride Fluoride Sulfate 6020B/7470 Custom 14 (App/In/APP/II + Mercury) 9315_Ra226 Radium 226 9320_Ra228 Radium 228 Combined RAD 2540C Total Diss. Solids Field Filtered 300 Chloride, Fluoride, Sulfate 6020B/7470 Custom 14 (App/In/APP/II + Mercury) 9315 Ra226 Radium 226 9320 Ra228 Radium 228 Combined RAD Total Number of containers:		
SW-9-1		10-13-21		1150		G SW				
SW-9-1 FF				1200						
SW-9-4				1210						
SW-9-4 FF				1220						
SW-10-2				1240						
SW-10-2 FF				1250						
SW-11-2				1310						
SW-11-2 FF				1320						
SW-12-2				1340						
SW-12-2 FF				1350						
SW-13-1		ROH		1226		ROH		ROH		
Possible Hazard Identification <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) <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)					Special Instructions/QC Requirements:					
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:				
Relinquished by: <i>[Signature]</i>		Date/Time: 10-13-21 1710		Company: ROH ENV.		Received by: <i>[Signature]</i>		Date/Time: 10/14/21 915		Company: <i>[Signature]</i>
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		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:						

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
 Pittsburgh, PA 15238
 Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

244-ATLANTA



Environment Testing
 America

Client Information Client Contact: SCS Contacts: Company: Address: City: State, Zip: Phone: Email: Project Name: Site: Ash Pond		Sampler: <i>Rick / Scott / Colton</i> Henderson / Surlock / Evans Phone: <i>850-336-0192</i> Lab PM: Brown, Shali E-Mail: shali.brown@eurofinset.com Carrier Tracking No(s): COC No: Page: <i>4 of 5</i> Job #:		Analysis Requested 2640C Total Dissolved Solids 300_28Day Chloride Fluoride Sulfate 6020B/7470 Custom 14 (Appili/APPV) - Mercury 9316_Ra228 Radium 226 9320_Ra228 Radium 228 Combined RAD 2540 C Total Diss Solids Filtered 300 Chloride Fluoride Sulfate 6020B/7470 custom 14 APPV MPE Mercury 9315 Ra226 Radium 226 9320 Ra228 Radium 228 Crn Based ASD Mail										Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify) Other:							
Sample Identification Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=waste/Oil, BTY/TASR, ANAL)		Special Instructions/Note:																			
SW-13-1 FF		10-13-21	1236	G	SW																
SW-14-1.5			0959			X	X	X	X	X	X										
SW-14-1.5 FF			1009									X	X	X	X	X					
SW-15-1.5			1042			X	X	X	X	X	X										
SW-15-1.5 FF			1052									X	X	X	X	X					
SW-16-1.5			1124			X	X	X	X	X	X										
SW-16-1.5 FF			1134									X	X	X	X	X					
SW-17-1			0916			X	X	X	X	X	X										
SW-17-1 FF			0926									X	X	X	X	X					
ER-01			1431			X	X	X	X	X	X										
ER-02		↓ ROH	1557	↓ ROH	↓ ROH	X	X	X	X	X	X										
Possible Hazard Identification <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) <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)					Special Instructions/QC Requirements:																
Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____																					
Relinquished by: <i>Kemp King</i> Date/Time: <i>10-13-21 1710</i> Company: <i>ROH EW.</i>					Received by: <i>[Signature]</i> Date/Time: <i>10/14/21 915</i> Company: <i>ERA P/O</i>																
Relinquished by: _____ Date/Time: _____ Company: _____					Received by: _____ Date/Time: _____ 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: _____																

Client Information		Sampler: <u>Rice</u> <u>Hayden</u> <u>Brett</u> <u>Collin</u>		Lab PM: Brown, Shali		Carrier Tracking No(s):		COC No:										
Client Contact:		Phone: <u>450-336-0192</u>		E-Mail: <u>shali.brown@eurofinset.com</u>				Page: <u>5 of 5</u>										
SCS Contacts								Job #:										
Company: SCS																		
Address: 3535 Colonnade Pkwy Bin S 530 EG		Due Date Requested:		Analysis Requested Total Number of Containers: _____ 2640C Total Dissolved Solids 300_28Day Chloride Fluoride Sulfate 6020B7470 Custom 14 (Appli/Appvt) - Mercury 9315_Rez226 Radium 226 9320_Rez228 Radium 228 Combined RAP <u>2640C Total Diss. Solids Filtered</u> <u>300 Chloride Fluoride Sulfate</u> <u>6020B/7470 Custom 14 APP/APPT</u> <u>9315 NAZ26 RADIUM 226</u> <u>9320 NA228 RADIUM 228</u> <u>Combined RAP</u>		Preservation Codes:												
City: Birmingham		TAT Requested (days):				A - HCL		M - Hexane										
State, Zip: AL, 35243						B - NaOH		N - None										
Phone: 205-992-6283		PO #: SCS10382606				C - Zn Acetate		O - AsNaO2										
Email: SCS Contacts		WO #:				D - Nitric Acid		P - Na2O4S										
Project Name: Plant Watson		Project #: 18020186		E - NaHSO4		Q - Na2SO3												
Site: Ash Pond		SSOW#:		F - MeOH		R - Na2S2O3												
				G - Amchlor		S - H2SO4												
				H - Ascorbic Acid		T - TSP Dodecahydrate												
				I - Ice		U - Acetone												
				J - DI Water		V - MCAA												
				K - EDTA		W - pH 4-5												
				L - EDA		Z - other (specify)												
						Other:												
Sample Identification						Special Instructions/Note:												
Sample ID	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste, A=air)	1	2	3	4	5	6	7	8	9	10	11	12	13	
DUP-01	10-13-21	1345	G	Soil														
DUP-01 FF		1355																
DUP-02		1420																
DUP-02 FF	↓ Rept	1430		↓ Rept														
Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)														
<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				<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)				Special Instructions/QC Requirements:														
Empty Kit Relinquished by:			Date:			Time:			Method of Shipment:									
Relinquished by: <u>[Signature]</u>			Date/Time: <u>10-13-21 1710</u>			Company: <u>ROH CORP.</u>			Received by: <u>[Signature]</u>			Date/Time: <u>01/14/21 915</u>			Company: <u>[Signature]</u>			
Relinquished by:			Date/Time:			Company:			Received by:			Date/Time:			Company:			
Relinquished by:			Date/Time:			Company:			Received by:			Date/Time:			Company:			
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks:												

Do Not Lift Using This Tag

ORIGIN ID: BIXA (850) 336-0192
RDH ENVIRONMENTAL
RDH ENVIRONMENTAL
5720 DOVE DR

SHIP DATE: 13OCT21

PACE, FL 32571
UNITED STATES US

TO TEST AMERICA
TEST AMERICA
301 ALPHA DR

PITTSBURGH PA 15238

(412) 988-7068
INVT
PO1

REF1
DEPT1

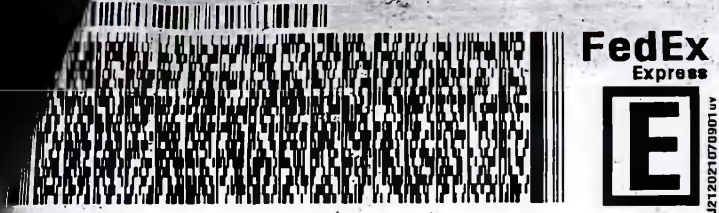
RT 98 1 A
10:30
FZ

DATE: 13OCT21
TIME: 08:00
CAG: 8883799/58FE220
CAG: 8883799/58FE220
BILL: THIRD PARTY

156297453/WH/CF/EX 08/22

PITTSBURGH PA 15238

REF1
DEPT1



1 of 10 THU - 14 OCT 10:30A
TRK# 0201 2848 6203 0571 PRIORITY OVERNIGHT
MASTER

XH AGCA 15238 PIT

Uncorrected temp Thermometer ID 33.0 °C
CF Initials [Signature]
PT-WI-SR-001 effective 11/8/18

RT 98 1 A
FZ 10:30 0571
10.14

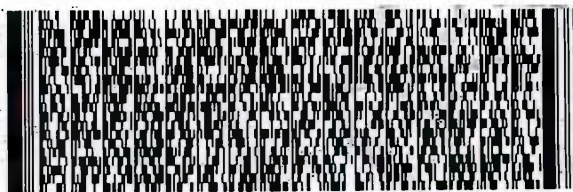
6 of 10 THU - 14 OCT 10:30A
MPS# 0263 2848 6203 0620 PRIORITY OVERNIGHT
Metr# 2848 6203 0571

XH AGCA 15238 PIT

Uncorrected temp Thermometer ID 41.0 °C
CF Initials [Signature]
PT-WI-SR-001 effective 11/8/18



1
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12
13



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J21202107080104

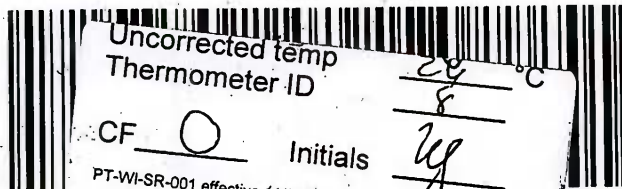
10 of 10
MPS# 2848 6203 0663
Mstr# 2848 6203 0571

THU - 14 OCT 10:30A
PRIORITY OVERNIGHT

0201

XH AGCA

15238
PA-US PIT



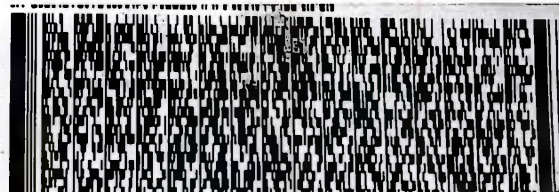
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Thermometer ID

2.9 °C

CF 0 Initials

uf

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



J21202107080104

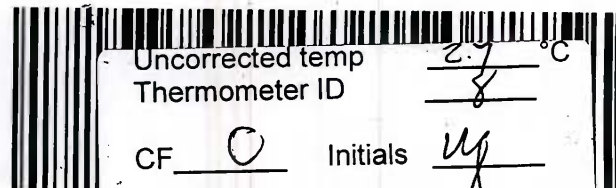
4 of 10
MPS# 2848 6203 0608
Mstr# 2848 6203 0571

THU - 14 OCT 10:30A
PRIORITY OVERNIGHT

0201

XH AGCA

15238
PA-US PIT



Uncorrected temp
Thermometer ID

2.7 °C

CF 0 Initials

uf

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



Do Not Lift Using This Tag

ORIGIN ID:BIXA (850) 336-0192
RDH ENVIRONMENTAL
RDH ENVIRONMENTAL
5720 DOVE DR

SHIP DATE: 13OCT21
ACTWGT: 80.95 LB
CAD: 6993798/SSFE2220
DIMS: 23x12x14 IN

PAGE, FL 32571
UNITED STATES US

BILL THIRD PARTY

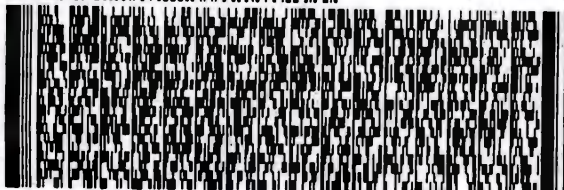
TO TEST AMERICA
TEST AMERICA
301 ALPHA DR

PITTSBURGH PA 15238

(412) 969-7058
REF:

REF:

DEPT:



FedEx
Express



8 of 10

MPS# 2848 6203 0641
0263

Mstr# 2848 6203 0571

0201

THU - 14 OCT 10:30A
PRIORITY OVERNIGHT

XH AGCA

15238

PA-US PIT



Uncorrected temp
Thermometer ID

CF 0

Initials

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

23
8
eg

Do Not Lift Using This Tag

RT 98

10:30

0593
10.14

FZ

ORIGIN ID:BIXA (850) 336-0192
RDH ENVIRONMENTAL
RDH ENVIRONMENTAL
5720 DOVE DR

SHIP DATE: 13OCT21
ACTWGT: 60.95 LB
CAD: 6993798/SSFE2220
DIMS: 23x12x14 IN

PAGE, FL 32571
UNITED STATES US

BILL THIRD PARTY

TO TEST AMERICA
TEST AMERICA
301 ALPHA DR

PITTSBURGH PA 15238

(412) 969-7058
REF:

REF:

DEPT:



FedEx
Express



3 of 10

MPS# 2848 6203 0593
0263

Mstr# 2848 6203 0571

0201

THU - 14 OCT 10:30A
PRIORITY OVERNIGHT

XH AGCA

15238

PIT

Uncorrected temp
Thermometer ID

CF 0

Initials

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

23
8

eg

Do Not Lift Using This Tag

ORIGIN ID: BIKR (850) 998-0182
RDH ENVIRONMENTAL
RDH ENVIRONMENTAL
5720 DOVE DR

SHIP DATE: 08/22
ACT. WEIGHT: 8.05 LB
CAD: 089978875822248
DIM: 29x12x6

PACE, FL 32571
UNITED STATES US

BILL THIRD PARTY

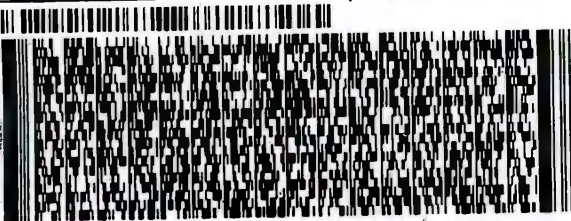
TO TEST AMERICA
TEST AMERICA
301 ALPHA DR

PITTSBURGH PA 15238

(412) 988-7068

REF:

INVT: POST: REPT:



FedEx Express



AN 1006/01202 LFT

5 of 10

MPS# 2848 6203 0619
0263

Mstr# 2848 6203 0571

0201

XH AGCA

15238
PA-US PIT

THU - 14 OCT 10:30A
PRIORITY OVERNIGHT

Uncorrected temp.
Thermometer ID
CF 0 Initials UJ
PT-WI-SR-001 effective 11/8/18

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

88
1
10:30
0919
10:14
A

Do Not Lift Using This Tag

ORIGIN ID: BIKR (850) 998-0182
RDH ENVIRONMENTAL
RDH ENVIRONMENTAL
5720 DOVE DR

SHIP DATE: 08/22
ACT. WEIGHT: 8.05 LB
CAD: 089978875822248
DIM: 29x12x6

PACE, FL 32571
UNITED STATES US

BILL THIRD PARTY

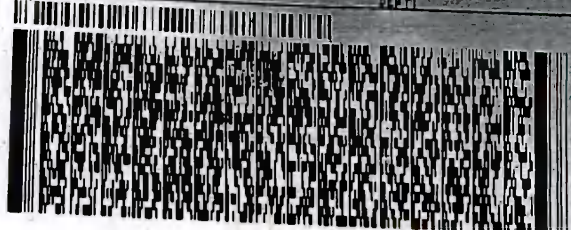
TO TEST AMERICA
TEST AMERICA
301 ALPHA DR

PITTSBURGH PA 15238

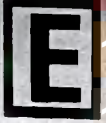
(412) 988-7068

REF:

INVT: POST: REPT:



FedEx Express



AN 1006/01202 LFT

9 of 10

MPS# 2848 6203 0652
0263

Mstr# 2848 6203 0571

0201

XH AGCA

15238
PA-US PIT

THU - 14 OCT 10:30A
PRIORITY OVERNIGHT

Uncorrected temp.
Thermometer ID
CF 0 Initials UJ
PT-WI-SR-001 effective 11/8/18

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

88
1
10:30
0919
10:14
A

Do Not Lift Using This Tag

ORIGIN ID:BIKA (850) 336-0192
RDH ENVIORMENTAL
RDH ENVIORMENTAL
5720 DOVE DR

SHIP DATE: 13OCT21
ACTWGT: 60.95 LB
CAD: 6993799/SSFE2220
DIMS: 23x12x14 IN

PACE, FL 32571
UNITED STATES US

BILL THIRD PARTY

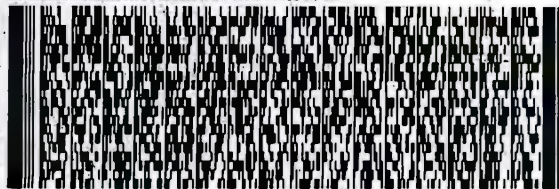
TO TEST AMERICA
TEST AMERICA
301 ALPHA DR

PITTSBURGH PA 15238

(412) 868-7068

REF:

DEPT:



FedEx
Express



AN1007012021Z

2 of 10

MPS# 2848 6203 0582
0263

Mstr# 2848 6203 0571

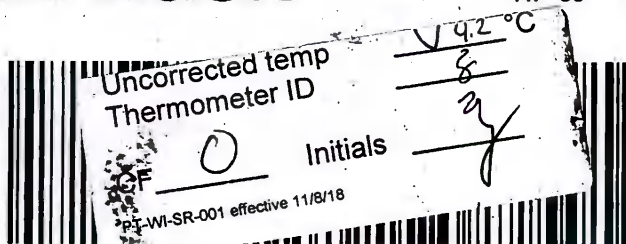
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THU - 14 OCT 10:30A
PRIORITY OVERNIGHT

XH AGCA

15238

PA-US PIT



Uncorrected temp
Thermometer ID

Initials

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

Do Not Lift Using This Tag

ORIGIN ID:BIKA (850) 336-0192
RDH ENVIORMENTAL
RDH ENVIORMENTAL
5720 DOVE DR

SHIP DATE: 13OCT21
ACTWGT: 60.95 LB
CAD: 6993799/SSFE2220
DIMS: 23x12x14 IN

PACE, FL 32571
UNITED STATES US

BILL THIRD PARTY

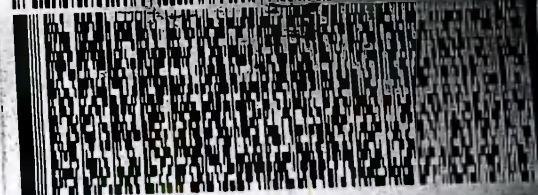
TO TEST AMERICA
TEST AMERICA
301 ALPHA DR

PITTSBURGH PA 15238

(412) 868-7068

REF:

DEPT:



7 of 10

MPS# 2848 6203 0630
0263

Mstr# 2848 6203 0571

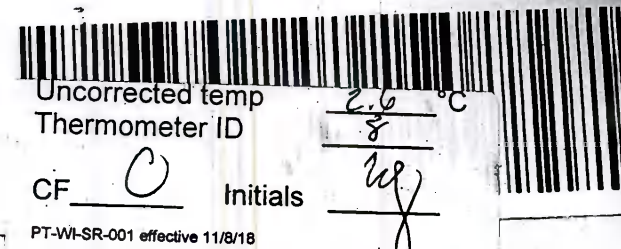
0201

THU - 14 OCT 10:30A
PRIORITY OVERNIGHT

XH AGCA

15238

PA-US PIT



Uncorrected temp
Thermometer ID

Initials

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

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM:		Carrier Tracking No(s)		COC No	
Client Contact Shipping/Receiving		Brown, Shall		180-446917.1		180-446917.1	
Company TestAmerica Laboratories, Inc.		E-Mail: Shall.Brown@Eurofinset.com		State of Origin: Georgia		Page Page 1 of 6	
Address 13715 Rider Trail North,		Accreditations Required (See note):		Job #		180-128482-2	
City Earth City		Due Date Requested: 11/16/2021		Preservation Codes:		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Ice V - MCAA W - pH 4-5 X - EDTA Y - EDTA Z - other (specify)	
State, Zip MO, 63045		TAT Requested (days):		Analysis Requested		Total Number of containers	
Phone 314-298-8566(Tel) 314-298-8757(Fax)		PO #		Field Filtered Sample (Yes or No)		314-298-8566(Tel) 314-298-8757(Fax)	
Email		WO #		Perform MS/MSD (Yes or No)		314-298-8566(Tel) 314-298-8757(Fax)	
Project Name Plant Watson Ash Pond Surfacewater		Project # 18020186		Radium 226 9315_Ra226/FIELD_FLTRD Radium 226 (Field)		9315_Ra226/precsep_21 Radium 226	
Site		SSOW#		Radium 228 9320_Ra228/FIELD_FLTRD Radium 228 (Field)		9320_Ra228/precsep_0 Radium 228	
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, B1=Issue, A=Air)	Preservation Code:	Special Instructions/Note:
SW-1-1' (180-128482-1)		10/13/21	15:20 Eastern	Water	Water	X	X
SW-1-1' FF (180-128482-2)		10/13/21	15:30 Eastern	Water	Water	X	X
SW-1-7' (180-128482-3)		10/13/21	15:40 Eastern	Water	Water	X	X
SW-1-7' FF (180-128482-4)		10/13/21	15:50 Eastern	Water	Water	X	X
SW-3-1' (180-128482-5)		10/13/21	07:46 Eastern	Water	Water	X	X
SW-3-1' FF (180-128482-6)		10/13/21	07:56 Eastern	Water	Water	X	X
SW-3-4' (180-128482-7)		10/13/21	08:24 Eastern	Water	Water	X	X
SW-3-4' FF (180-128482-8)		10/13/21	08:34 Eastern	Water	Water	X	X
SW-2-1' (180-128482-9)		10/13/21	16:10 Eastern	Water	Water	X	X

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out 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/testing/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date/Time: 10/15/21 17:00
 Relinquished by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Custody Seals Intact: _____
 Δ Yes Δ No
 Custody Seal No.: _____

Received by: _____ Company: _____
 Received by: _____ Company: _____
 Received by: _____ Company: _____

Method of Shipment: **FED EX** Date/Time: 10-18-21 09:00
 Company: EFA STL
 Date/Time: 10-18-21 09:00
 Company: EFA STL

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:

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Brown, Shali	Carrier Tracking No(s): 180-446917-2
Client Contact: Shipping/Receiving		E-Mail: Shali.Brown@Eurofins.com	Page: Page 2 of 6
Company: TestAmerica Laboratories, Inc.		State of Origin: Georgia	Job #: 180-128482-2
Address: 13715 Rider Trail North,		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - H2SO4 S - Ascorbic Acid T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Y - EDA Z - other (specify) Other:	
City: Earth City		Analysis Requested	
State, Zip: MO, 63045		Total Number of Containers	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Field Filtered Sample (Yes or No)	
Email:		Perform MS/MSD (Yes or No)	
Project #: 18020186		Radium 226	
Site: Plant Watson Ash Pond Surfacewater		Radium 228	
Due Date Requested: 11/16/2021		Radium 226 and Radium 228	
TAT Requested (days):		Radium 226, Radium 228, and Radium 226 and Radium 228	
PO #:		Radium 226, Radium 228, and Radium 226 and Radium 228	
WO #:		Radium 226, Radium 228, and Radium 226 and Radium 228	
Sample Date		Radium 226, Radium 228, and Radium 226 and Radium 228	
Sample Time		Radium 226, Radium 228, and Radium 226 and Radium 228	
Sample Type (C=Comp, G=grab)		Radium 226, Radium 228, and Radium 226 and Radium 228	
Matrix (W=water, S=solid, O=water, B=soil, T=tissue, A=air)		Radium 226, Radium 228, and Radium 226 and Radium 228	
Sample Identification - Client ID (Lab ID)		Radium 226, Radium 228, and Radium 226 and Radium 228	
SW-2-1 FF (180-128482-10)		Radium 226, Radium 228, and Radium 226 and Radium 228	
SW-2-7 (180-128482-11)		Radium 226, Radium 228, and Radium 226 and Radium 228	
SW-2-7 FF (180-128482-12)		Radium 226, Radium 228, and Radium 226 and Radium 228	
SW-4-1.5 (180-128482-13)		Radium 226, Radium 228, and Radium 226 and Radium 228	
SW-4-1.5 FF (180-128482-14)		Radium 226, Radium 228, and Radium 226 and Radium 228	
SW-5-1 (180-128482-15)		Radium 226, Radium 228, and Radium 226 and Radium 228	
SW-5-1 FF (180-128482-16)		Radium 226, Radium 228, and Radium 226 and Radium 228	
SW-5-13 (180-128482-17)		Radium 226, Radium 228, and Radium 226 and Radium 228	
SW-5-13 FF (180-128482-18)		Radium 226, Radium 228, and Radium 226 and Radium 228	
<p>Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica</p>			
Possible Hazard Identification			
Unconfirmed			
Deliverable Requested: I, II, III, IV, Other (specify)			
Primary Deliverable Rank: 2			
Date:			
Relinquished by:			
Relinquished by:			
Relinquished by:			
Custody Seals Intact: Δ Yes Δ No			
Custody Seal No.:			
Cooler Temperature(s) °C and Other Remarks			
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Special Instructions/QC Requirements:			
Method of Shipment:			
Received by:			
Date/Time:			
Company:			
Received by:			
Date/Time:			
Company:			
Received by:			
Date/Time:			
Company:			



Chain of Custody Record

Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s)	COC No.	
Client Contact: Shipping/Receiving		Phone	Brown, Shall		180-446917.3	
Company: TestAmerica Laboratories, Inc.			E-Mail: Shall.Brown@Eurofinset.com	State of Origin: Georgia	Page 3 of 6	
Address: 13715 Rider Trail North,			Accreditations Required (See note): 180-128482-2			
City: Earth City		Due Date Requested: 11/16/2021	Analysis Requested			
State, Zip: MO, 63045		TAT Requested (days):	Total Number of Containers			
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		PO #	<input checked="" type="checkbox"/> 9315_Ra226/PreSep_21 Radium 226 <input checked="" type="checkbox"/> 9320_Ra228/PreSep_0 Radium 228 <input checked="" type="checkbox"/> 9315_Ra226/Field_FLTRD Radium 226 (Field) <input checked="" type="checkbox"/> 9320_Ra228/Field_FLTRD Radium 228 (Field) <input checked="" type="checkbox"/> 9315_Ra226/Field_FLTRD Radium 226 and <input checked="" type="checkbox"/> Ra226Ra228_GFP/Combined Radium-226 and			
Email: 314-298-8566(Tel) 314-298-8757(Fax)		WO #	<input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Perform MS/MSD (Yes or No)			
Project Name: Plant Watson Ash Pond Surfacewater		Project # 18020186	<input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Perform MS/MSD (Yes or No)			
Site: 18020186		SSOW#	<input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Perform MS/MSD (Yes or No)			
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastefoil, BT=Tissue, A=Air)	Preservation Code:	Special Instructions/Note:
SW-6-1 (180-128482-19)	10/13/21	09:25 Eastern	Water	Water		
SW-6-1 FF (180-128482-20)	10/13/21	09:30 Eastern	Water	Water		
SW-6-9 5 (180-128482-21)	10/13/21	09:50 Eastern	Water	Water		
SW-6-9 5 FF (180-128482-22)	10/13/21	10:00 Eastern	Water	Water		
SW-9-1 (180-128482-23)	10/13/21	11:50 Eastern	Water	Water		
SW-9-1 FF (180-128482-24)	10/13/21	12:00 Eastern	Water	Water		
SW-9-4 (180-128482-25)	10/13/21	12:10 Eastern	Water	Water		
SW-9-4 FF (180-128482-26)	10/13/21	12:20 Eastern	Water	Water		
SW-10-2 (180-128482-27)	10/13/21	12:40 Eastern	Water	Water		

Preservation Codes:
 M - Hexane
 N - None
 O - AsNaO2
 P - Na2OAS
 Q - Na2SO3
 R - Na2SO4
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4-5
 X - EDTA
 L - EDA
 Z - other (specify)
 Other:

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

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____

Empty Kit Relinquished by: _____ Date: _____ Time: _____
 Relinquished by: _____ Date/Time: 10/15/21/7:00 Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: _____ Custody Seal No.: _____
 Δ Yes Δ No



Client Information (Sub Contract Lab)		Sampler: Lab PM: Brown, Shall		COC No: 180-446917.4																																																																																																																																			
Client Contact: Shipping/Receiving		Phone: Shall: Brown@Eurofins.com		Page: Page 4 of 6																																																																																																																																			
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note)		Job #: 180-128482-2																																																																																																																																			
Address: 13715 Rider Trail North,		Due Date Requested: 11/16/2021		Analysis Requested 9315_Ra226/PreSep_21 Radium 226 Ra226Ra228_GFP/Combined Radium 226 and Radium 228 9315_Ra226/FIELD_FLTRD Radium 226 (Field Filtered) 9320_Ra228/FIELD_FLTRD Radium 228 (Field Filtered) RA226_228GPF_C/D/FIELD_FLTRD (MOD) Local Method Total Number of Containers: <u>2</u>																																																																																																																																			
City: Earth City		TAT Requested (days):																																																																																																																																					
State, Zip: MO, 63045		PO #:																																																																																																																																					
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #:																																																																																																																																					
Email:		Project #: 18020186		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Y - EDA Z - other (specify) Other:																																																																																																																																			
Plant Name: Plant Watson Ash Pond Surfacewater		SOW#:		Special Instructions/Note:																																																																																																																																			
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Sample Identification - Client ID (Lab ID)</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (W=water, S=solid, O=wastelike, BI=filtrate, A=Aliq)</th> <th>Preservation Code</th> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>9315_Ra226/PreSep_21 Radium 226</th> <th>Ra226Ra228_GFP/Combined Radium 226 and Radium 228</th> <th>9315_Ra226/FIELD_FLTRD Radium 226 (Field Filtered)</th> <th>9320_Ra228/FIELD_FLTRD Radium 228 (Field Filtered)</th> <th>RA226_228GPF_C/D/FIELD_FLTRD (MOD) Local Method</th> </tr> </thead> <tbody> <tr> <td>SW-10-2 FF (180-128482-28)</td> <td>10/13/21</td> <td>12:50 Eastern</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>SW-11-2 (180-128482-29)</td> <td>10/13/21</td> <td>13:10 Eastern</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>SW-11-2 FF (180-128482-30)</td> <td>10/13/21</td> <td>13:20 Eastern</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>SW-12-2 (180-128482-31)</td> <td>10/13/21</td> <td>13:40 Eastern</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>SW-12-2 FF (180-128482-32)</td> <td>10/13/21</td> <td>13:50 Eastern</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>SW-13-1 (180-128482-33)</td> <td>10/13/21</td> <td>12:26 Eastern</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>SW-13-1 FF (180-128482-34)</td> <td>10/13/21</td> <td>12:36 Eastern</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>SW-14-1.5 (180-128482-35)</td> <td>10/13/21</td> <td>09:59 Eastern</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>SW-14-1.5 FF (180-128482-36)</td> <td>10/13/21</td> <td>10:09 Eastern</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> </tbody> </table>						Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastelike, BI=filtrate, A=Aliq)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226/PreSep_21 Radium 226	Ra226Ra228_GFP/Combined Radium 226 and Radium 228	9315_Ra226/FIELD_FLTRD Radium 226 (Field Filtered)	9320_Ra228/FIELD_FLTRD Radium 228 (Field Filtered)	RA226_228GPF_C/D/FIELD_FLTRD (MOD) Local Method	SW-10-2 FF (180-128482-28)	10/13/21	12:50 Eastern	Water	Water	X	X	X	X	X	X	X	X	SW-11-2 (180-128482-29)	10/13/21	13:10 Eastern	Water	Water	X	X	X	X	X	X	X	X	SW-11-2 FF (180-128482-30)	10/13/21	13:20 Eastern	Water	Water	X	X	X	X	X	X	X	X	SW-12-2 (180-128482-31)	10/13/21	13:40 Eastern	Water	Water	X	X	X	X	X	X	X	X	SW-12-2 FF (180-128482-32)	10/13/21	13:50 Eastern	Water	Water	X	X	X	X	X	X	X	X	SW-13-1 (180-128482-33)	10/13/21	12:26 Eastern	Water	Water	X	X	X	X	X	X	X	X	SW-13-1 FF (180-128482-34)	10/13/21	12:36 Eastern	Water	Water	X	X	X	X	X	X	X	X	SW-14-1.5 (180-128482-35)	10/13/21	09:59 Eastern	Water	Water	X	X	X	X	X	X	X	X	SW-14-1.5 FF (180-128482-36)	10/13/21	10:09 Eastern	Water	Water	X	X	X	X	X	X	X	X
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastelike, BI=filtrate, A=Aliq)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226/PreSep_21 Radium 226	Ra226Ra228_GFP/Combined Radium 226 and Radium 228	9315_Ra226/FIELD_FLTRD Radium 226 (Field Filtered)	9320_Ra228/FIELD_FLTRD Radium 228 (Field Filtered)	RA226_228GPF_C/D/FIELD_FLTRD (MOD) Local Method																																																																																																																											
SW-10-2 FF (180-128482-28)	10/13/21	12:50 Eastern	Water	Water	X	X	X	X	X	X	X	X																																																																																																																											
SW-11-2 (180-128482-29)	10/13/21	13:10 Eastern	Water	Water	X	X	X	X	X	X	X	X																																																																																																																											
SW-11-2 FF (180-128482-30)	10/13/21	13:20 Eastern	Water	Water	X	X	X	X	X	X	X	X																																																																																																																											
SW-12-2 (180-128482-31)	10/13/21	13:40 Eastern	Water	Water	X	X	X	X	X	X	X	X																																																																																																																											
SW-12-2 FF (180-128482-32)	10/13/21	13:50 Eastern	Water	Water	X	X	X	X	X	X	X	X																																																																																																																											
SW-13-1 (180-128482-33)	10/13/21	12:26 Eastern	Water	Water	X	X	X	X	X	X	X	X																																																																																																																											
SW-13-1 FF (180-128482-34)	10/13/21	12:36 Eastern	Water	Water	X	X	X	X	X	X	X	X																																																																																																																											
SW-14-1.5 (180-128482-35)	10/13/21	09:59 Eastern	Water	Water	X	X	X	X	X	X	X	X																																																																																																																											
SW-14-1.5 FF (180-128482-36)	10/13/21	10:09 Eastern	Water	Water	X	X	X	X	X	X	X	X																																																																																																																											
<p>Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If this 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica</p>																																																																																																																																							
<p>Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 Empty Kit Relinquished by: _____ Date: _____ Relinquished by: _____ Date/Time: _____ Relinquished by: _____ Date/Time: _____ Relinquished by: _____ Date/Time: _____ Custody Seals Intact: _____ Custody Seal No.: _____ Δ Yes Δ No</p>																																																																																																																																							
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:</p>																																																																																																																																							
<p>Received by: _____ Date/Time: _____ Received by: <i>EJG</i> Date/Time: 10/18/21 09:20 Received by: _____ Date/Time: _____ Cooler Temperature(s) °C and Other Remarks: _____</p>																																																																																																																																							



Chain of Custody Record

Client Information (Sub Contract Lab)		Sampler: Lab PM: Brown, Shail		Carrier Tracking No(s): COC No: 180-446917.5										
Client Contact: Shipping/Receiving		Phone: E-Mail: Shail.Brown@Eurofins.com		Page: Page 5 of 6										
Company: TestAmerica Laboratories, Inc.		Address: 13715 Rider Trail North,		Job #: 180-128482-2										
City: Earth City		State, Zip: MO, 63045		Preservation Codes:										
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		PO #:		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:										
Email:		WO #:		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)										
Project Name: Plant Watson Ash Pond Surfacewater		Project #: 18020186		Total Number of Containers: 2										
Site:		SSOW#:		Special Instructions/Note:										
Sample Identification - Client ID (Lab ID)														
Sample ID	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=Blood, AA=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226/PreSep_21 Radium 226	Radium-228	9315_Ra226/FIELD_FLTRD Radium 226 (Field)	9320_Ra228/FIELD_FLTRD Radium 228 (Field)	9320_Ra228/FIELD_FLTRD Radium 228 (Field)	RA226_Z28GFFC_D/FIELD_FLTRD (MOD) Local Method	Analysis Requested	Special Instructions/Note:
SW-15-1.5 (180-128482-37)	10/13/21	10:42 Eastern		Water	X	X								
SW-15-1.5 FF (180-128482-38)	10/13/21	10:52 Eastern		Water					X					
SW-16-1.5 (180-128482-39)	10/13/21	11:24 Eastern		Water	X	X								
SW-16-1.5 FF (180-128482-40)	10/13/21	11:34 Eastern		Water					X					
SW-17-1 (180-128482-41)	10/13/21	09:16 Eastern		Water	X	X								
SW-17-1 FF (180-128482-42)	10/13/21	09:26 Eastern		Water					X					
EB-01 (180-128482-43)	10/13/21	14:31 Eastern		Water					X					
EB-02 (180-128482-44)	10/13/21	15:57 Eastern		Water					X					
DUP-01 (180-128482-45)	10/13/21	13:45 Eastern		Water	X	X								
<p>Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.</p>														
Possible Hazard Identification														
Unconfirmed														
Deliverable Requested: I, II, III, IV, Other (Specify) Primary Deliverable Rank: 2														
Empty Kit Relinquished by: _____ Date: _____														
Relinquished by: _____ Date/Time: 10/15/21 17:00														
Relinquished by: _____ Date/Time: _____														
Relinquished by: _____ Date/Time: _____														
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No														
Custody Seal No. _____														
Cooler Temperature(s) °C and Other Remarks: _____														



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Brown, Shali		COC No: 180-446917 6					
Client Contact: Shipping/Receiving		E-Mail: Shali.Brown@Eurofinset.com		Page: Page 6 of 6					
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):		Job #: 180-128482-2					
Address: 13715 Rider Trail North,		Due Date Requested: 11/16/2021		Carmer Tracking No(s):					
City: Earth City		TAT Requested (days):		State of Origin: Georgia					
State, Zip: MO, 63045		PO #:		Preservation Codes:					
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WG #:		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)					
Project Name: Plant Watson Ash Pond Surfacewater		Project #: 18020186		Other:					
Site:		SSOW#:							
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastefl, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of Containers	Special Instructions/Note:
DUP-01 FF (180-128482-46)	10/13/21	13:55 Eastern	Water	Water	X	X	9315_Ra226/PreSep_21 Radium 226 Ra226Ra228_GFP/ Combined Radium-226 and Radium-228 9315_Ra226/FLD_FLTRD Radium 226 (Field Filtered) 9320_Ra228/FLD_FLTRD Radium 228 (Field Filtered) RA226_228GFP/ D/FLD_FLTRD (MOD) Local Method	2	
DUP-02 (180-128482-47)	10/13/21	14:20 Eastern	Water	Water	X	X		2	
DUP-02 FF (180-128482-48)	10/13/21	14:30 Eastern	Water	Water	X	X		2	
<p>Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.</p>									
<p>Possible Hazard Identification</p> <p>Unconfirmed</p> <p>Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2</p> <p>Empty Kit Relinquished by: _____ Date: _____ Time: _____</p> <p>Relinquished by: _____ Date: 10/15/21 Time: 17:00 Company: _____</p> <p>Relinquished by: _____ Date: _____ Time: _____ Company: _____</p> <p>Relinquished by: _____ Date: _____ Time: _____ Company: _____</p> <p>Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: _____</p> <p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> <p>Special Instructions/QC Requirements:</p>									
<p>Received by: _____ Date/Time: _____ Company: _____</p> <p>Received by: _____ Date/Time: 10/19/21 09:20 Company: ETA STL</p> <p>Received by: _____ Date/Time: _____ Company: _____</p> <p>Cooler Temperature(s) °C and Other Remarks:</p>									

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-128482-2

Login Number: 128482

List Source: Eurofins TestAmerica, 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: 180-128482-2

Login Number: 128482

List Number: 2

Creator: Johnson, Autumn R

List Source: Eurofins TestAmerica, St. Louis

List Creation: 10/18/21 12:54 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-128575-1

Client Project/Site: Plant Watson Ash Pond

For:

Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Robert Singleton



Authorized for release by:
10/30/2021 9:08:49 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128575-1

Job ID: 180-128575-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

**Job Narrative
180-128575-1**

Comments

No additional comments.

Receipt

The samples were received on 10/15/2021 3:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.1° C and 4.6° C.

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.

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Definitions/Glossary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128575-1

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 Watson Ash Pond

Job ID: 180-128575-1

Laboratory: Eurofins TestAmerica, 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	06-27-21 *
California	State	2891	04-30-22
Connecticut	State	PH-0688	09-30-22
Florida	NELAP	E871008	06-30-22
Georgia	State	PA 02-00416	04-30-22
Illinois	NELAP	004375	06-30-22
Kansas	NELAP	E-10350	01-31-22
Kentucky (UST)	State	162013	04-30-22
Kentucky (WW)	State	KY98043	12-31-21
Louisiana	NELAP	04041	06-30-22
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-21
Nevada	State	PA00164	08-31-22
New Hampshire	NELAP	2030	04-05-22
New Jersey	NELAP	PA005	06-30-22
New York	NELAP	11182	04-01-22
North Carolina (WW/SW)	State	434	12-31-21
North Dakota	State	R-227	04-30-22
Oregon	NELAP	PA-2151	02-06-22
Pennsylvania	NELAP	02-00416	04-30-22
Rhode Island	State	LAO00362	12-31-21
South Carolina	State	89014	04-30-22
Texas	NELAP	T104704528	03-31-22
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-22
Virginia	NELAP	10043	09-15-22
West Virginia DEP	State	142	01-31-22
Wisconsin	State	998027800	08-31-22

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



Sample Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128575-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-128575-1	APMW-6D	Water	10/14/21 08:29	10/15/21 15:00
180-128575-2	DUP-03	Water	10/14/21 07:29	10/15/21 15:00
180-128575-3	APMW-4	Water	10/14/21 10:00	10/15/21 15:00
180-128575-4	FB-02	Water	10/14/21 10:05	10/15/21 15:00
180-128575-5	APMW-4D	Water	10/14/21 08:20	10/15/21 15:00
180-128575-6	EB-02	Water	10/14/21 07:35	10/15/21 15:00

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Method Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128575-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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:

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

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128575-1

Client Sample ID: APMW-6D

Lab Sample ID: 180-128575-1

Date Collected: 10/14/21 08:29

Matrix: Water

Date Received: 10/15/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			375516	10/16/21 09:41	M1D	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	376685	10/27/21 10:22	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376929	10/28/21 16:00	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	375829	10/19/21 13:48	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			376147	10/21/21 12:17	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	376022	10/20/21 16:13	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: DUP-03

Lab Sample ID: 180-128575-2

Date Collected: 10/14/21 07:29

Matrix: Water

Date Received: 10/15/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			375516	10/16/21 11:46	M1D	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	376685	10/27/21 10:22	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376929	10/28/21 16:04	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	375829	10/19/21 13:48	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			376147	10/21/21 12:18	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	376022	10/20/21 16:13	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-4

Lab Sample ID: 180-128575-3

Date Collected: 10/14/21 10:00

Matrix: Water

Date Received: 10/15/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5			375516	10/16/21 10:35	M1D	TAL PIT
Instrument ID: INTEGRION										
Total/NA	Analysis	300.0		50			375516	10/16/21 10:53	M1D	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	376685	10/27/21 10:22	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376929	10/28/21 16:07	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	375829	10/19/21 13:48	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			376147	10/21/21 12:19	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	376022	10/20/21 16:13	KMM	TAL PIT
Instrument ID: NOEQUIP										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128575-1

Client Sample ID: FB-02

Lab Sample ID: 180-128575-4

Date Collected: 10/14/21 10:05

Matrix: Water

Date Received: 10/15/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			375516	10/16/21 12:40	M1D	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	376685	10/27/21 10:22	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376929	10/28/21 16:18	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	376193	10/22/21 05:52	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			376443	10/25/21 12:23	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	376022	10/20/21 16:13	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-4D

Lab Sample ID: 180-128575-5

Date Collected: 10/14/21 08:20

Matrix: Water

Date Received: 10/15/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		25			375516	10/16/21 11:11	M1D	TAL PIT
Instrument ID: INTEGRION										
Total/NA	Analysis	300.0		250			375516	10/16/21 11:28	M1D	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	376685	10/27/21 10:22	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376929	10/28/21 16:29	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	376193	10/22/21 05:52	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			376443	10/25/21 12:24	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	5 mL	100 mL	376161	10/21/21 16:32	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: EB-02

Lab Sample ID: 180-128575-6

Date Collected: 10/14/21 07:35

Matrix: Water

Date Received: 10/15/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			375516	10/16/21 12:58	M1D	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	376685	10/27/21 10:22	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376929	10/28/21 16:33	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	375891	10/20/21 06:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			376147	10/21/21 13:21	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	376022	10/20/21 16:13	KMM	TAL PIT
Instrument ID: NOEQUIP										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128575-1

Laboratory References:

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

Analyst References:

Lab: TAL PIT

Batch Type: Prep

MM1 = Mary Beth Miller

RJR = Ron Rosenbaum

Batch Type: Analysis

KMM = Kendric Moore

M1D = Maureen Donlin

RJR = Ron Rosenbaum

RSK = Robert Kurtz

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128575-1

Client Sample ID: APMW-6D

Lab Sample ID: 180-128575-1

Date Collected: 10/14/21 08:29

Matrix: Water

Date Received: 10/15/21 15:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		1.0	0.71	mg/L			10/16/21 09:41	1
Fluoride	0.19	J	0.20	0.026	mg/L			10/16/21 09:41	1
Sulfate	12		1.0	0.76	mg/L			10/16/21 09:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/27/21 10:22	10/28/21 16:00	1
Arsenic	0.0055		0.0010	0.00031	mg/L		10/27/21 10:22	10/28/21 16:00	1
Barium	0.10		0.010	0.0016	mg/L		10/27/21 10:22	10/28/21 16:00	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/27/21 10:22	10/28/21 16:00	1
Boron	0.077		0.080	0.039	mg/L		10/27/21 10:22	10/28/21 16:00	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/27/21 10:22	10/28/21 16:00	1
Calcium	6.1		0.50	0.13	mg/L		10/27/21 10:22	10/28/21 16:00	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/27/21 10:22	10/28/21 16:00	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/27/21 10:22	10/28/21 16:00	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/27/21 10:22	10/28/21 16:00	1
Lithium	0.0061		0.0050	0.0034	mg/L		10/27/21 10:22	10/28/21 16:00	1
Molybdenum	0.0012	J	0.015	0.00061	mg/L		10/27/21 10:22	10/28/21 16:00	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/27/21 10:22	10/28/21 16:00	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/27/21 10:22	10/28/21 16:00	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/19/21 13:48	10/21/21 12:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	150		10	10	mg/L			10/20/21 16:13	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128575-1

Client Sample ID: DUP-03

Lab Sample ID: 180-128575-2

Date Collected: 10/14/21 07:29

Matrix: Water

Date Received: 10/15/21 15:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		1.0	0.71	mg/L			10/16/21 11:46	1
Fluoride	0.20		0.20	0.026	mg/L			10/16/21 11:46	1
Sulfate	12		1.0	0.76	mg/L			10/16/21 11:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/27/21 10:22	10/28/21 16:04	1
Arsenic	0.0051		0.0010	0.00031	mg/L		10/27/21 10:22	10/28/21 16:04	1
Barium	0.10		0.010	0.0016	mg/L		10/27/21 10:22	10/28/21 16:04	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/27/21 10:22	10/28/21 16:04	1
Boron	0.073	J	0.080	0.039	mg/L		10/27/21 10:22	10/28/21 16:04	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/27/21 10:22	10/28/21 16:04	1
Calcium	5.9		0.50	0.13	mg/L		10/27/21 10:22	10/28/21 16:04	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/27/21 10:22	10/28/21 16:04	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/27/21 10:22	10/28/21 16:04	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/27/21 10:22	10/28/21 16:04	1
Lithium	0.0063		0.0050	0.0034	mg/L		10/27/21 10:22	10/28/21 16:04	1
Molybdenum	0.0012	J	0.015	0.00061	mg/L		10/27/21 10:22	10/28/21 16:04	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/27/21 10:22	10/28/21 16:04	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/27/21 10:22	10/28/21 16:04	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/19/21 13:48	10/21/21 12:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	150		10	10	mg/L			10/20/21 16:13	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128575-1

Client Sample ID: APMW-4

Lab Sample ID: 180-128575-3

Date Collected: 10/14/21 10:00

Matrix: Water

Date Received: 10/15/21 15:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2900		50	36	mg/L			10/16/21 10:53	50
Fluoride	0.50	J	1.0	0.13	mg/L			10/16/21 10:35	5
Sulfate	290		5.0	3.8	mg/L			10/16/21 10:35	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/27/21 10:22	10/28/21 16:07	1
Arsenic	0.012		0.0010	0.00031	mg/L		10/27/21 10:22	10/28/21 16:07	1
Barium	0.21		0.010	0.0016	mg/L		10/27/21 10:22	10/28/21 16:07	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/27/21 10:22	10/28/21 16:07	1
Boron	1.2		0.080	0.039	mg/L		10/27/21 10:22	10/28/21 16:07	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/27/21 10:22	10/28/21 16:07	1
Calcium	150		0.50	0.13	mg/L		10/27/21 10:22	10/28/21 16:07	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/27/21 10:22	10/28/21 16:07	1
Cobalt	0.0032		0.0025	0.00013	mg/L		10/27/21 10:22	10/28/21 16:07	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/27/21 10:22	10/28/21 16:07	1
Lithium	0.052		0.0050	0.0034	mg/L		10/27/21 10:22	10/28/21 16:07	1
Molybdenum	0.0042	J	0.015	0.00061	mg/L		10/27/21 10:22	10/28/21 16:07	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/27/21 10:22	10/28/21 16:07	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/27/21 10:22	10/28/21 16:07	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/19/21 13:48	10/21/21 12:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5700		100	100	mg/L			10/20/21 16:13	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128575-1

Client Sample ID: FB-02

Lab Sample ID: 180-128575-4

Date Collected: 10/14/21 10:05

Matrix: Water

Date Received: 10/15/21 15:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			10/16/21 12:40	1
Fluoride	<0.026		0.20	0.026	mg/L			10/16/21 12:40	1
Sulfate	<0.76		1.0	0.76	mg/L			10/16/21 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/27/21 10:22	10/28/21 16:18	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		10/27/21 10:22	10/28/21 16:18	1
Barium	<0.0016		0.010	0.0016	mg/L		10/27/21 10:22	10/28/21 16:18	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/27/21 10:22	10/28/21 16:18	1
Boron	<0.039		0.080	0.039	mg/L		10/27/21 10:22	10/28/21 16:18	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/27/21 10:22	10/28/21 16:18	1
Calcium	<0.13		0.50	0.13	mg/L		10/27/21 10:22	10/28/21 16:18	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/27/21 10:22	10/28/21 16:18	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/27/21 10:22	10/28/21 16:18	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/27/21 10:22	10/28/21 16:18	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/27/21 10:22	10/28/21 16:18	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/27/21 10:22	10/28/21 16:18	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/27/21 10:22	10/28/21 16:18	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/27/21 10:22	10/28/21 16:18	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/22/21 05:52	10/25/21 12:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			10/20/21 16:13	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128575-1

Client Sample ID: APMW-4D

Lab Sample ID: 180-128575-5

Date Collected: 10/14/21 08:20

Matrix: Water

Date Received: 10/15/21 15:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8400		250	180	mg/L			10/16/21 11:28	250
Fluoride	<0.65		5.0	0.65	mg/L			10/16/21 11:11	25
Sulfate	660		25	19	mg/L			10/16/21 11:11	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/27/21 10:22	10/28/21 16:29	1
Arsenic	0.0046		0.0010	0.00031	mg/L		10/27/21 10:22	10/28/21 16:29	1
Barium	0.13		0.010	0.0016	mg/L		10/27/21 10:22	10/28/21 16:29	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/27/21 10:22	10/28/21 16:29	1
Boron	3.5		0.080	0.039	mg/L		10/27/21 10:22	10/28/21 16:29	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/27/21 10:22	10/28/21 16:29	1
Calcium	240		0.50	0.13	mg/L		10/27/21 10:22	10/28/21 16:29	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/27/21 10:22	10/28/21 16:29	1
Cobalt	0.0037		0.0025	0.00013	mg/L		10/27/21 10:22	10/28/21 16:29	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/27/21 10:22	10/28/21 16:29	1
Lithium	0.11		0.0050	0.0034	mg/L		10/27/21 10:22	10/28/21 16:29	1
Molybdenum	0.23		0.015	0.00061	mg/L		10/27/21 10:22	10/28/21 16:29	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/27/21 10:22	10/28/21 16:29	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/27/21 10:22	10/28/21 16:29	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/22/21 05:52	10/25/21 12:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	15000		200	200	mg/L			10/21/21 16:32	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128575-1

Client Sample ID: EB-02
Date Collected: 10/14/21 07:35
Date Received: 10/15/21 15:00

Lab Sample ID: 180-128575-6
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			10/16/21 12:58	1
Fluoride	<0.026		0.20	0.026	mg/L			10/16/21 12:58	1
Sulfate	<0.76		1.0	0.76	mg/L			10/16/21 12:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/27/21 10:22	10/28/21 16:33	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		10/27/21 10:22	10/28/21 16:33	1
Barium	<0.0016		0.010	0.0016	mg/L		10/27/21 10:22	10/28/21 16:33	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/27/21 10:22	10/28/21 16:33	1
Boron	0.13		0.080	0.039	mg/L		10/27/21 10:22	10/28/21 16:33	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/27/21 10:22	10/28/21 16:33	1
Calcium	<0.13		0.50	0.13	mg/L		10/27/21 10:22	10/28/21 16:33	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/27/21 10:22	10/28/21 16:33	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/27/21 10:22	10/28/21 16:33	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/27/21 10:22	10/28/21 16:33	1
Lithium	0.0035 J		0.0050	0.0034	mg/L		10/27/21 10:22	10/28/21 16:33	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/27/21 10:22	10/28/21 16:33	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/27/21 10:22	10/28/21 16:33	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/27/21 10:22	10/28/21 16:33	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/20/21 06:24	10/21/21 13:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			10/20/21 16:13	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128575-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 180-375516/6
Matrix: Water
Analysis Batch: 375516

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			10/16/21 08:32	1
Fluoride	<0.026		0.20	0.026	mg/L			10/16/21 08:32	1
Sulfate	<0.76		1.0	0.76	mg/L			10/16/21 08:32	1

Lab Sample ID: LCS 180-375516/5
Matrix: Water
Analysis Batch: 375516

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	53.5		mg/L		107	90 - 110
Fluoride	2.50	2.59		mg/L		104	90 - 110
Sulfate	50.0	52.0		mg/L		104	90 - 110

Lab Sample ID: 180-128575-1 MS
Matrix: Water
Analysis Batch: 375516

Client Sample ID: APMW-6D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10		50.0	60.9		mg/L		101	90 - 110
Fluoride	0.19	J	2.50	2.77		mg/L		103	90 - 110
Sulfate	12		50.0	60.6		mg/L		98	90 - 110

Lab Sample ID: 180-128575-1 MSD
Matrix: Water
Analysis Batch: 375516

Client Sample ID: APMW-6D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10		50.0	65.3		mg/L		110	90 - 110	7	20
Fluoride	0.19	J	2.50	2.95		mg/L		110	90 - 110	6	20
Sulfate	12		50.0	65.5		mg/L		108	90 - 110	8	20

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

Lab Sample ID: MB 180-376685/1-A
Matrix: Water
Analysis Batch: 376929

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 376685

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/27/21 10:22	10/28/21 14:14	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		10/27/21 10:22	10/28/21 14:14	1
Barium	<0.0016		0.010	0.0016	mg/L		10/27/21 10:22	10/28/21 14:14	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/27/21 10:22	10/28/21 14:14	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/27/21 10:22	10/28/21 14:14	1
Calcium	<0.13		0.50	0.13	mg/L		10/27/21 10:22	10/28/21 14:14	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/27/21 10:22	10/28/21 14:14	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/27/21 10:22	10/28/21 14:14	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/27/21 10:22	10/28/21 14:14	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/27/21 10:22	10/28/21 14:14	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/27/21 10:22	10/28/21 14:14	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/27/21 10:22	10/28/21 14:14	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128575-1

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

Lab Sample ID: MB 180-376685/1-A
Matrix: Water
Analysis Batch: 376929

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 376685

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00015		0.0010	0.00015	mg/L		10/27/21 10:22	10/28/21 14:14	1

Lab Sample ID: LCS 180-376685/2-A
Matrix: Water
Analysis Batch: 376929

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 376685

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.250	0.247		mg/L		99	80 - 120
Arsenic	1.00	1.00		mg/L		100	80 - 120
Barium	1.00	1.05		mg/L		105	80 - 120
Beryllium	0.500	0.503		mg/L		101	80 - 120
Boron	1.25	1.26		mg/L		101	80 - 120
Cadmium	0.500	0.513		mg/L		103	80 - 120
Calcium	25.0	25.1		mg/L		100	80 - 120
Chromium	0.500	0.516		mg/L		103	80 - 120
Cobalt	0.500	0.515		mg/L		103	80 - 120
Lead	0.500	0.515		mg/L		103	80 - 120
Lithium	0.500	0.490		mg/L		98	80 - 120
Molybdenum	0.500	0.524		mg/L		105	80 - 120
Selenium	1.00	1.02		mg/L		102	80 - 120
Thallium	1.00	1.04		mg/L		104	80 - 120

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-375829/1-A
Matrix: Water
Analysis Batch: 376147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 375829

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/19/21 13:48	10/21/21 12:03	1

Lab Sample ID: LCS 180-375829/2-A
Matrix: Water
Analysis Batch: 376147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375829

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00260	0.00275		mg/L		106	80 - 120

Lab Sample ID: MB 180-375891/1-A
Matrix: Water
Analysis Batch: 376147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 375891

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/20/21 06:24	10/21/21 13:01	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128575-1

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

Lab Sample ID: LCS 180-375891/2-A
Matrix: Water
Analysis Batch: 376147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375891
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00259		mg/L		104	80 - 120

Lab Sample ID: MB 180-376193/1-A
Matrix: Water
Analysis Batch: 376443

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376193

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/22/21 05:52	10/25/21 12:05	1

Lab Sample ID: LCS 180-376193/2-A
Matrix: Water
Analysis Batch: 376443

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376193
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00260		mg/L		104	80 - 120

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

Lab Sample ID: MB 180-376022/2
Matrix: Water
Analysis Batch: 376022

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		10	10	mg/L			10/20/21 16:13	1

Lab Sample ID: LCS 180-376022/1
Matrix: Water
Analysis Batch: 376022

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Dissolved Solids	422	384		mg/L		91	80 - 120

Lab Sample ID: MB 180-376161/2
Matrix: Water
Analysis Batch: 376161

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		10	10	mg/L			10/21/21 16:32	1

Lab Sample ID: LCS 180-376161/1
Matrix: Water
Analysis Batch: 376161

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Dissolved Solids	422	426		mg/L		101	80 - 120

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128575-1

HPLC/IC

Analysis Batch: 375516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128575-1	APMW-6D	Total/NA	Water	300.0	
180-128575-2	DUP-03	Total/NA	Water	300.0	
180-128575-3	APMW-4	Total/NA	Water	300.0	
180-128575-3	APMW-4	Total/NA	Water	300.0	
180-128575-4	FB-02	Total/NA	Water	300.0	
180-128575-5	APMW-4D	Total/NA	Water	300.0	
180-128575-5	APMW-4D	Total/NA	Water	300.0	
180-128575-6	EB-02	Total/NA	Water	300.0	
MB 180-375516/6	Method Blank	Total/NA	Water	300.0	
LCS 180-375516/5	Lab Control Sample	Total/NA	Water	300.0	
180-128575-1 MS	APMW-6D	Total/NA	Water	300.0	
180-128575-1 MSD	APMW-6D	Total/NA	Water	300.0	

Metals

Prep Batch: 375829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128575-1	APMW-6D	Total/NA	Water	7470A	
180-128575-2	DUP-03	Total/NA	Water	7470A	
180-128575-3	APMW-4	Total/NA	Water	7470A	
MB 180-375829/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-375829/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 375891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128575-6	EB-02	Total/NA	Water	7470A	
MB 180-375891/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-375891/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 376147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128575-1	APMW-6D	Total/NA	Water	EPA 7470A	375829
180-128575-2	DUP-03	Total/NA	Water	EPA 7470A	375829
180-128575-3	APMW-4	Total/NA	Water	EPA 7470A	375829
180-128575-6	EB-02	Total/NA	Water	EPA 7470A	375891
MB 180-375829/1-A	Method Blank	Total/NA	Water	EPA 7470A	375829
MB 180-375891/1-A	Method Blank	Total/NA	Water	EPA 7470A	375891
LCS 180-375829/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	375829
LCS 180-375891/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	375891

Prep Batch: 376193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128575-4	FB-02	Total/NA	Water	7470A	
180-128575-5	APMW-4D	Total/NA	Water	7470A	
MB 180-376193/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-376193/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 376443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128575-4	FB-02	Total/NA	Water	EPA 7470A	376193
180-128575-5	APMW-4D	Total/NA	Water	EPA 7470A	376193

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128575-1

Metals (Continued)

Analysis Batch: 376443 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-376193/1-A	Method Blank	Total/NA	Water	EPA 7470A	376193
LCS 180-376193/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	376193

Prep Batch: 376685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128575-1	APMW-6D	Total Recoverable	Water	3005A	
180-128575-2	DUP-03	Total Recoverable	Water	3005A	
180-128575-3	APMW-4	Total Recoverable	Water	3005A	
180-128575-4	FB-02	Total Recoverable	Water	3005A	
180-128575-5	APMW-4D	Total Recoverable	Water	3005A	
180-128575-6	EB-02	Total Recoverable	Water	3005A	
MB 180-376685/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-376685/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 376929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128575-1	APMW-6D	Total Recoverable	Water	EPA 6020B	376685
180-128575-2	DUP-03	Total Recoverable	Water	EPA 6020B	376685
180-128575-3	APMW-4	Total Recoverable	Water	EPA 6020B	376685
180-128575-4	FB-02	Total Recoverable	Water	EPA 6020B	376685
180-128575-5	APMW-4D	Total Recoverable	Water	EPA 6020B	376685
180-128575-6	EB-02	Total Recoverable	Water	EPA 6020B	376685
MB 180-376685/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	376685
LCS 180-376685/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	376685

General Chemistry

Analysis Batch: 376022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128575-1	APMW-6D	Total/NA	Water	SM 2540C	
180-128575-2	DUP-03	Total/NA	Water	SM 2540C	
180-128575-3	APMW-4	Total/NA	Water	SM 2540C	
180-128575-4	FB-02	Total/NA	Water	SM 2540C	
180-128575-6	EB-02	Total/NA	Water	SM 2540C	
MB 180-376022/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-376022/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 376161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128575-5	APMW-4D	Total/NA	Water	SM 2540C	
MB 180-376161/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-376161/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
 Pittsburgh, PA 15238
 Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

ATLANTA-244

eurofins

Environment Testing
 America

Client Information		Sampler: <u>Philip Evans</u>		Lab PM: <u>Brown, Shali</u>		Carrier Tracking No(s):		COC No:	
Client Contact: SCS Contacts		Phone: <u>850-336-0192</u>		E-Mail: <u>shali.brown@eurofinset.com</u>				Page:	
Company: SCS		Address: 3535 Colonnade Pkwy Bin S 530 EC		Due Date Requested:		Analysis Requested 2640C Total Dissolved Solids 300_28Day Chloride Fluoride Sulfate 6020B7470 Custom 14 (AppII/AppV) - Mercury 8316_Ra228 Radium 228 8320_Ra228 Radium 228 Combined RAP		Job #:	
City: Birmingham		State, Zip: AL, 35243		TAT Requested (days):				Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)	
Phone: 205-992-6283		Email: SCS Contacts		EO #: SCS10382606				Other:	
Project Name: Plant Watson		Site: Ash Pond		Project #: 18020186				SSOW#:	
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	
								Special Instructions/Note:	
APMW-6d		10/14/21		0829		G W		X X X X X X	
DUP-03				0729					
APMW-4				1000					
FB-02				1005					
APMW-4D				0920					
EB-02		10/14/21		0735		G W		X X X X X X	
Possible Hazard Identification		<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)					
Deliverable Requested: I, II, III, IV, Other (specify)				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC-Requirements:			
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:			
Relinquished by: <u>[Signature]</u>		Date/Time: <u>10/14/21 1400</u>		Company: <u>ROH</u>		Received by: <u>[Signature]</u>		Date/Time: <u>10/15/21 1000</u>	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:					



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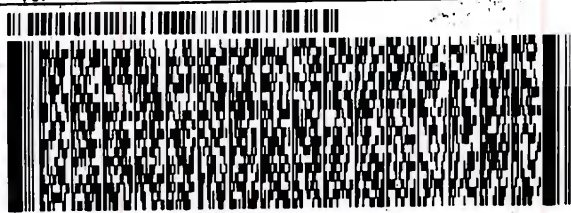


180-128575 Waybill

PITTSBURGH PA 15238

(412) 963-6222 REF: INU: PO1

DEPT:



FedEx Express



TRK# 2849 0426 3535
0201

FRI - 15 OCT 10:30A
PRIORITY OVERNIGHT

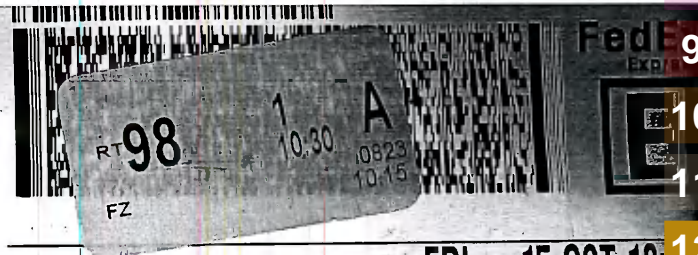
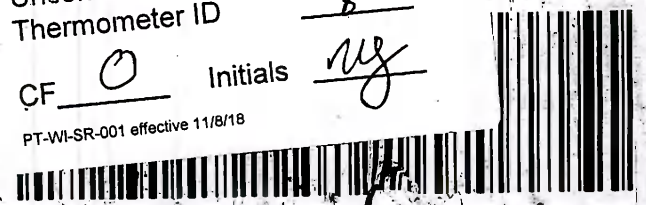
XH AGCA

15238
PA-US PIT

Uncorrected temp 2.1 °C
Thermometer ID 8

CF 0 Initials ny

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



TRK# 2849 0433 0823
0201

FRI - 15 OCT 10:30A
PRIORITY OVERNIGHT

XH AGCA

15238
PA-US PIT

Uncorrected temp 4.6 °C
Thermometer ID 8

CF 0 Initials Y

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



DO NOT LIFT USING THIS TAG

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-128575-1

Login Number: 128575

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-128575-2

Client Project/Site: Plant Watson Ash Pond

For:

Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Robert Singleton



Authorized for release by:
11/19/2021 8:56:44 AM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.com

LINKS

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results through
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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128575-2

Job ID: 180-128575-2

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

**Job Narrative
180-128575-2**

Comments

No additional comments.

Receipt

The samples were received on 10/15/2021 3:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.1° C and 4.6° C.

RAD

Methods 903.0, 9315: Radium 226 batch 533592

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. APMW-6D (180-128575-1), DUP-03 (180-128575-2), APMW-4 (180-128575-3), FB-02 (180-128575-4), APMW-4D (180-128575-5), EB-02 (180-128575-6), (LCS 160-533592/1-A) and (MB 160-533592/23-A)

Methods 904.0, 9320: Radium 228 batch 533598

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. APMW-6D (180-128575-1), DUP-03 (180-128575-2), APMW-4 (180-128575-3), FB-02 (180-128575-4), APMW-4D (180-128575-5), EB-02 (180-128575-6), (LCS 160-533598/1-A) and (MB 160-533598/23-A)

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 Watson Ash Pond

Job ID: 180-128575-2

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 Watson Ash Pond

Job ID: 180-128575-2

Laboratory: Eurofins TestAmerica, 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	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-21
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	06-30-21 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	01-01-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-21
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-21
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	03-01-22
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

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

Sample Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128575-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-128575-1	APMW-6D	Water	10/14/21 08:29	10/15/21 15:00
180-128575-2	DUP-03	Water	10/14/21 07:29	10/15/21 15:00
180-128575-3	APMW-4	Water	10/14/21 10:00	10/15/21 15:00
180-128575-4	FB-02	Water	10/14/21 10:05	10/15/21 15:00
180-128575-5	APMW-4D	Water	10/14/21 08:20	10/15/21 15:00
180-128575-6	EB-02	Water	10/14/21 07:35	10/15/21 15:00

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Method Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128575-2

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

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

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128575-2

Client Sample ID: APMW-6D

Lab Sample ID: 180-128575-1

Date Collected: 10/14/21 08:29

Matrix: Water

Date Received: 10/15/21 15:00

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			1000.39 mL	1.0 g	533592	10/26/21 09:50	BMP	TAL SL
Total/NA	Analysis	9315		1			537097	11/17/21 18:37	ANW	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.39 mL	1.0 g	533598	10/26/21 10:30	BMP	TAL SL
Total/NA	Analysis	9320		1			536881	11/16/21 12:40	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			537488	11/18/21 20:56	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-03

Lab Sample ID: 180-128575-2

Date Collected: 10/14/21 07:29

Matrix: Water

Date Received: 10/15/21 15:00

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			1000.31 mL	1.0 g	533592	10/26/21 09:50	BMP	TAL SL
Total/NA	Analysis	9315		1			537097	11/17/21 18:37	ANW	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.31 mL	1.0 g	533598	10/26/21 10:30	BMP	TAL SL
Total/NA	Analysis	9320		1			536881	11/16/21 12:40	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			537488	11/18/21 20:56	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-4

Lab Sample ID: 180-128575-3

Date Collected: 10/14/21 10:00

Matrix: Water

Date Received: 10/15/21 15:00

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			750.09 mL	1.0 g	533592	10/26/21 09:50	BMP	TAL SL
Total/NA	Analysis	9315		1			537097	11/17/21 18:38	ANW	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			750.09 mL	1.0 g	533598	10/26/21 10:30	BMP	TAL SL
Total/NA	Analysis	9320		1			536881	11/16/21 12:40	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			537488	11/18/21 20:56	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-02

Lab Sample ID: 180-128575-4

Date Collected: 10/14/21 10:05

Matrix: Water

Date Received: 10/15/21 15:00

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			1000.67 mL	1.0 g	533592	10/26/21 09:50	BMP	TAL SL
Total/NA	Analysis	9315		1			537097	11/17/21 18:38	ANW	TAL SL
Instrument ID: GFPCRED										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128575-2

Client Sample ID: FB-02

Lab Sample ID: 180-128575-4

Date Collected: 10/14/21 10:05

Matrix: Water

Date Received: 10/15/21 15:00

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			1000.67 mL	1.0 g	533598	10/26/21 10:30	BMP	TAL SL
Total/NA	Analysis	9320		1			536883	11/16/21 12:43	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			537488	11/18/21 20:56	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-4D

Lab Sample ID: 180-128575-5

Date Collected: 10/14/21 08:20

Matrix: Water

Date Received: 10/15/21 15:00

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			750.52 mL	1.0 g	533592	10/26/21 09:50	BMP	TAL SL
Total/NA	Analysis	9315		1			537097	11/17/21 18:38	ANW	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			750.52 mL	1.0 g	533598	10/26/21 10:30	BMP	TAL SL
Total/NA	Analysis	9320		1			536883	11/16/21 12:44	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			537488	11/18/21 20:56	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-02

Lab Sample ID: 180-128575-6

Date Collected: 10/14/21 07:35

Matrix: Water

Date Received: 10/15/21 15:00

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			1000.06 mL	1.0 g	533592	10/26/21 09:50	BMP	TAL SL
Total/NA	Analysis	9315		1			537097	11/17/21 18:38	ANW	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.06 mL	1.0 g	533598	10/26/21 10:30	BMP	TAL SL
Total/NA	Analysis	9320		1			536883	11/16/21 12:44	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			537488	11/18/21 20:56	MLK	TAL SL
Instrument ID: NOEQUIP										

Laboratory References:

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

Analyst References:

Lab: TAL SL

Batch Type: Prep

BMP = Bailey Pinette

Batch Type: Analysis

ANW = Amber Woods

FLC = Fernando Cruz

MLK = Micha Korrinhizer

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-128575-2

Client Sample ID: APMW-6D

Lab Sample ID: 180-128575-1

Date Collected: 10/14/21 08:29

Matrix: Water

Date Received: 10/15/21 15:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.136	U	0.151	0.151	1.00	0.244	pCi/L	10/26/21 09:50	11/17/21 18:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.8		40 - 110					10/26/21 09:50	11/17/21 18:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.10		0.310	0.326	1.00	0.381	pCi/L	10/26/21 10:30	11/16/21 12:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.8		40 - 110					10/26/21 10:30	11/16/21 12:40	1
Y Carrier	83.7		40 - 110					10/26/21 10:30	11/16/21 12:40	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.24		0.345	0.359	5.00	0.381	pCi/L		11/18/21 20:56	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-128575-2

Client Sample ID: DUP-03
Date Collected: 10/14/21 07:29
Date Received: 10/15/21 15:00

Lab Sample ID: 180-128575-2
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.192	U	0.155	0.156	1.00	0.230	pCi/L	10/26/21 09:50	11/17/21 18:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					10/26/21 09:50	11/17/21 18:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.887		0.298	0.309	1.00	0.393	pCi/L	10/26/21 10:30	11/16/21 12:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					10/26/21 10:30	11/16/21 12:40	1
Y Carrier	80.0		40 - 110					10/26/21 10:30	11/16/21 12:40	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.08		0.336	0.346	5.00	0.393	pCi/L		11/18/21 20:56	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-128575-2

Client Sample ID: APMW-4

Lab Sample ID: 180-128575-3

Date Collected: 10/14/21 10:00

Matrix: Water

Date Received: 10/15/21 15:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.602		0.289	0.294	1.00	0.373	pCi/L	10/26/21 09:50	11/17/21 18:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.5		40 - 110					10/26/21 09:50	11/17/21 18:38	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.96		0.509	0.540	1.00	0.656	pCi/L	10/26/21 10:30	11/16/21 12:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.5		40 - 110					10/26/21 10:30	11/16/21 12:40	1
Y Carrier	82.6		40 - 110					10/26/21 10:30	11/16/21 12:40	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.56		0.585	0.615	5.00	0.656	pCi/L		11/18/21 20:56	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128575-2

Client Sample ID: FB-02

Lab Sample ID: 180-128575-4

Date Collected: 10/14/21 10:05

Matrix: Water

Date Received: 10/15/21 15:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0746	U	0.158	0.158	1.00	0.280	pCi/L	10/26/21 09:50	11/17/21 18:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.0		40 - 110					10/26/21 09:50	11/17/21 18:38	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.03		0.311	0.325	1.00	0.379	pCi/L	10/26/21 10:30	11/16/21 12:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.0		40 - 110					10/26/21 10:30	11/16/21 12:43	1
Y Carrier	73.6		40 - 110					10/26/21 10:30	11/16/21 12:43	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.10		0.349	0.361	5.00	0.379	pCi/L		11/18/21 20:56	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-128575-2

Client Sample ID: APMW-4D

Lab Sample ID: 180-128575-5

Date Collected: 10/14/21 08:20

Matrix: Water

Date Received: 10/15/21 15:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.860		0.307	0.317	1.00	0.334	pCi/L	10/26/21 09:50	11/17/21 18:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.0		40 - 110					10/26/21 09:50	11/17/21 18:38	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	7.59		0.751	1.02	1.00	0.574	pCi/L	10/26/21 10:30	11/16/21 12:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.0		40 - 110					10/26/21 10:30	11/16/21 12:44	1
Y Carrier	85.2		40 - 110					10/26/21 10:30	11/16/21 12:44	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	8.45		0.811	1.07	5.00	0.574	pCi/L		11/18/21 20:56	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128575-2

Client Sample ID: EB-02

Lab Sample ID: 180-128575-6

Date Collected: 10/14/21 07:35

Matrix: Water

Date Received: 10/15/21 15:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00864	U	0.113	0.113	1.00	0.233	pCi/L	10/26/21 09:50	11/17/21 18:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.8		40 - 110					10/26/21 09:50	11/17/21 18:38	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.384	U	0.264	0.267	1.00	0.409	pCi/L	10/26/21 10:30	11/16/21 12:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.8		40 - 110					10/26/21 10:30	11/16/21 12:44	1
Y Carrier	80.7		40 - 110					10/26/21 10:30	11/16/21 12:44	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.375	U	0.287	0.290	5.00	0.409	pCi/L		11/18/21 20:56	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128575-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-533592/23-A
Matrix: Water
Analysis Batch: 537097

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 533592

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.1553	U	0.168	0.168	1.00	0.271	pCi/L	10/26/21 09:50	11/17/21 20:28	1
Carrier	MB	MB	Limits				Prepared		Analyzed	
Ba Carrier	%Yield	Qualifier	40 - 110				10/26/21 09:50		11/17/21 20:28	
	101									

Lab Sample ID: LCS 160-533592/1-A
Matrix: Water
Analysis Batch: 537059

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 533592

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	
				Uncert. (2σ+/-)						
Radium-226	11.3	10.05		1.21	1.00	0.250	pCi/L	89	75 - 125	
Carrier	LCS	LCS	Limits							
Ba Carrier	%Yield	Qualifier	40 - 110							
	98.3									

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-533598/23-A
Matrix: Water
Analysis Batch: 536882

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 533598

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.5222		0.255	0.259	1.00	0.371	pCi/L	10/26/21 10:30	11/16/21 12:49	1
Carrier	MB	MB	Limits				Prepared		Analyzed	
Ba Carrier	%Yield	Qualifier	40 - 110				10/26/21 10:30		11/16/21 12:49	
	101									
Y Carrier	87.5		40 - 110				10/26/21 10:30		11/16/21 12:49	

Lab Sample ID: LCS 160-533598/1-A
Matrix: Water
Analysis Batch: 536881

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 533598

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	
				Uncert. (2σ+/-)						
Radium-228	9.14	10.16		1.18	1.00	0.408	pCi/L	111	75 - 125	
Carrier	LCS	LCS	Limits							
Ba Carrier	%Yield	Qualifier	40 - 110							
	98.3									
Y Carrier	83.0		40 - 110							

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128575-2

Rad

Prep Batch: 533592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128575-1	APMW-6D	Total/NA	Water	PrecSep-21	
180-128575-2	DUP-03	Total/NA	Water	PrecSep-21	
180-128575-3	APMW-4	Total/NA	Water	PrecSep-21	
180-128575-4	FB-02	Total/NA	Water	PrecSep-21	
180-128575-5	APMW-4D	Total/NA	Water	PrecSep-21	
180-128575-6	EB-02	Total/NA	Water	PrecSep-21	
MB 160-533592/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-533592/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 533598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128575-1	APMW-6D	Total/NA	Water	PrecSep_0	
180-128575-2	DUP-03	Total/NA	Water	PrecSep_0	
180-128575-3	APMW-4	Total/NA	Water	PrecSep_0	
180-128575-4	FB-02	Total/NA	Water	PrecSep_0	
180-128575-5	APMW-4D	Total/NA	Water	PrecSep_0	
180-128575-6	EB-02	Total/NA	Water	PrecSep_0	
MB 160-533598/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-533598/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

ATLANTA-244

eurofins

Environment Testing
America

Client Information		Sampler: <u>Philip Evans</u>		Lab PM: <u>Brown, Shali</u>		Carrier Tracking No(s):		COC No:			
Client Contact: SCS Contacts		Phone: <u>850-336-0192</u>		E-Mail: <u>shali.brown@eurofinset.com</u>				Page:			
Company: SCS		Address: 3535 Colonnade Pkwy Bin S 530 EC		Due Date Requested:		Analysis Requested 2640C Total Dissolved Solids 300_28Day Chloride Fluoride Sulfate 6020B7470 Custom 14 (AppII/AppV) - Mercury 8316_Ra228 Radium 228 8320_Ra228 Radium 228 Combined RAP		Job #:			
City: Birmingham		State, Zip: AL, 35243		TAT Requested (days):				Preservation Codes:			
Phone: 205-992-6283		Email: SCS Contacts		EO #: SCS10382606				A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Project Name: Plant Watson		Site: Ash Pond		Project #: 18020186				SSOW#:		Other:	
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)			
								Special Instructions/Note:			
APMW-6d		10/14/21		0829		G W		X X X X X X			
DUP-03				0729							
APMW-4				1000							
FB-02				1005							
APMW-4D				0920							
EB-02		10/14/21		0735		G W		X X X X X X			
Possible Hazard Identification		<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)							
Deliverable Requested: I, II, III, IV, Other (specify)								<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:					
Relinquished by: <u>[Signature]</u>		Date/Time: <u>10/14/21 1400</u>		Company: <u>ROH</u>		Received by: <u>[Signature]</u>		Date/Time: <u>10/15/21 1000</u>			
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:			
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:			
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:							



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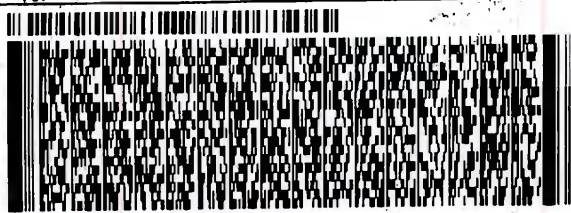


180-128575 Waybill

PITTSBURGH PA 15238

(412) 963-6222 REF:
TNU: PO1

DEPT:



FedEx Express



AN100807070001

TRK# 2849 0426 3535
0201

FRI - 15 OCT 10:30A
PRIORITY OVERNIGHT

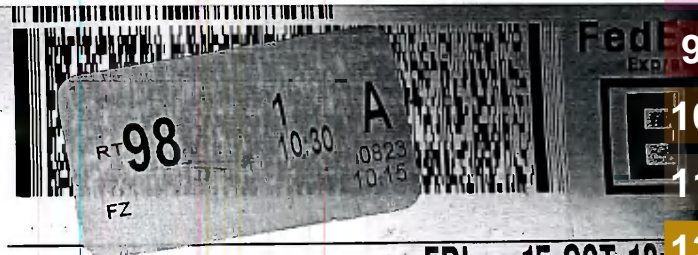
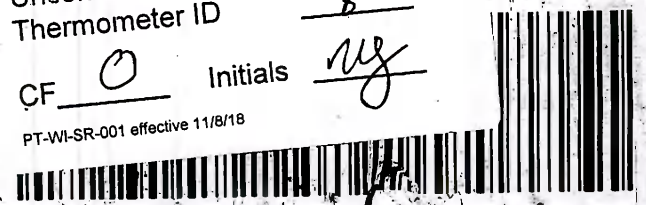
XH AGCA

15238
PA-US PIT

Uncorrected temp 2.1 °C
Thermometer ID 8

CF 0 Initials ny

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



TRK# 2849 0433 0823
0201

FRI - 15 OCT 10:30A
PRIORITY OVERNIGHT

XH AGCA

15238
PA-US PIT

Uncorrected temp 4.6 °C
Thermometer ID 8

CF 0 Initials Y

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



DO NOT LIFT USING THIS TAG

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

Chain of Custody Record



Environment Testing
 America



Client Information (Sub Contract Lab) Client Contact: Brown, Shali Shipping/Receiving: Shali.Brown@Eurofinset.com Company: TestAmerica Laboratories, Inc. Address: 13715 Rider Trail North, Earth City, MO 63045 Phone: 314-298-8566(Tel) 314-298-8757(Fax) Email: Project Name: Plant Watson Ash Pond Site:		Lab PM: Brown, Shali E-Mail: Shali.Brown@Eurofinset.com Carrier Tracking No(s): 180-446996.1 State of Origin: Georgia Page: Page 1 of 1 Job #: 180-128575-2 COC No: 180-446996.1									
Due Date Requested: 11/17/2021 TAT Requested (days): PO #: WO #: Project #: 18020186 SSOW#:		Analysis Requested Accreditations Required (See note): Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDTA M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify) Other:									
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, T=tissue, A=air)	Field Filtered Sample (Yes or No)	Form MS/MSD (Yes or No)	920_Ra228/PreSep_0 Radium 228	915_Ra226/PreSep_21 Radium 226	Ra226Ra228_GFP/Combined Radium 226 and Radium 228	Total Number of Containers	Special Instructions/Note:
APMW-6D (180-128575-1)	10/14/21	08:29 Eastern	Water	Water	X	X	X	X	X	2	
DUP-03 (180-128575-2)	10/14/21	07:29 Eastern	Water	Water	X	X	X	X	X	2	
APMW-4 (180-128575-3)	10/14/21	10:00 Eastern	Water	Water	X	X	X	X	X	2	
FB-02 (180-128575-4)	10/14/21	10:05 Eastern	Water	Water	X	X	X	X	X	2	
APMW-4D (180-128575-5)	10/14/21	08:20 Eastern	Water	Water	X	X	X	X	X	2	
EB-02 (180-128575-6)	10/14/21	07:35 Eastern	Water	Water	X	X	X	X	X	2	
Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.											
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) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:											
Empty Kit Relinquished by: _____ Date: _____ Relinquished by: <i>Mo</i> Date: 10-18-21 17:00 Relinquished by: FEDEX Date/Time: _____ Relinquished by: _____ Date/Time: _____ Relinquished by: _____ Date/Time: _____ Custody Seals Intact: _____ Cooler Temperature(s) °C and Other Remarks:											



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-128575-2

Login Number: 128575

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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 <math><6\text{mm}</math> (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: 180-128575-2

Login Number: 128575

List Number: 2

Creator: Johnson, Autumn R

List Source: Eurofins TestAmerica, St. Louis

List Creation: 10/19/21 12:21 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	

ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-128612-1

Client Project/Site: Plant Watson Ash Pond

For:

Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Robert Singleton



Authorized for release by:
11/1/2021 7:07:20 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128612-1

Job ID: 180-128612-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

**Job Narrative
180-128612-1**

Comments

No additional comments.

Receipt

The samples were received on 10/16/2021 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5° C.

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.

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Definitions/Glossary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128612-1

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 Watson Ash Pond

Job ID: 180-128612-1

Laboratory: Eurofins TestAmerica, 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	06-27-21 *
California	State	2891	04-30-22
Connecticut	State	PH-0688	09-30-22
Florida	NELAP	E871008	06-30-22
Georgia	State	PA 02-00416	04-30-22
Illinois	NELAP	004375	06-30-22
Kansas	NELAP	E-10350	01-31-22
Kentucky (UST)	State	162013	04-30-22
Kentucky (WW)	State	KY98043	12-31-21
Louisiana	NELAP	04041	06-30-22
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-21
Nevada	State	PA00164	08-31-22
New Hampshire	NELAP	2030	04-05-22
New Jersey	NELAP	PA005	06-30-22
New York	NELAP	11182	04-01-22
North Carolina (WW/SW)	State	434	12-31-21
North Dakota	State	R-227	04-30-22
Oregon	NELAP	PA-2151	02-06-22
Pennsylvania	NELAP	02-00416	04-30-22
Rhode Island	State	LAO00362	12-31-21
South Carolina	State	89014	04-30-22
Texas	NELAP	T104704528	03-31-22
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-22
Virginia	NELAP	10043	09-15-22
West Virginia DEP	State	142	01-31-22
Wisconsin	State	998027800	08-31-22

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

Sample Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128612-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-128612-1	APMW-16	Water	10/15/21 10:45	10/16/21 09:30
180-128612-2	APMW-14	Water	10/15/21 09:48	10/16/21 09:30

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Method Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128612-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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:

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

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-128612-1

Client Sample ID: APMW-16

Lab Sample ID: 180-128612-1

Date Collected: 10/15/21 10:45

Matrix: Water

Date Received: 10/16/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5			375750	10/19/21 14:04	J1T	TAL PIT
Instrument ID: CHICS2100B										
Total/NA	Analysis	300.0		50			375750	10/19/21 14:23	J1T	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	376698	10/27/21 11:13	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376938	10/28/21 12:53	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	376193	10/22/21 05:52	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			376443	10/25/21 12:16	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	376161	10/21/21 16:32	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-14

Lab Sample ID: 180-128612-2

Date Collected: 10/15/21 09:48

Matrix: Water

Date Received: 10/16/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5			375750	10/19/21 14:41	J1T	TAL PIT
Instrument ID: CHICS2100B										
Total/NA	Analysis	300.0		50			375750	10/19/21 15:00	J1T	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	376698	10/27/21 11:13	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			376938	10/28/21 13:03	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	376193	10/22/21 05:52	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			376443	10/25/21 12:17	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	376161	10/21/21 16:32	KMM	TAL PIT
Instrument ID: NOEQUIP										

Laboratory References:

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

Analyst References:

Lab: TAL PIT

Batch Type: Prep

MM1 = Mary Beth Miller

RJR = Ron Rosenbaum

Batch Type: Analysis

J1T = Jianwu Tang

KMM = Kendric Moore

RJR = Ron Rosenbaum

RSK = Robert Kurtz

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128612-1

Client Sample ID: APMW-16

Lab Sample ID: 180-128612-1

Date Collected: 10/15/21 10:45

Matrix: Water

Date Received: 10/16/21 09:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3100		50	36	mg/L			10/19/21 14:23	50
Fluoride	0.44	J	1.0	0.13	mg/L			10/19/21 14:04	5
Sulfate	55		5.0	3.8	mg/L			10/19/21 14:04	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/27/21 11:13	10/28/21 12:53	1
Arsenic	0.00070	J	0.0010	0.00031	mg/L		10/27/21 11:13	10/28/21 12:53	1
Barium	0.067		0.010	0.0016	mg/L		10/27/21 11:13	10/28/21 12:53	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/27/21 11:13	10/28/21 12:53	1
Boron	0.77		0.080	0.039	mg/L		10/27/21 11:13	10/28/21 12:53	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/27/21 11:13	10/28/21 12:53	1
Calcium	75		0.50	0.13	mg/L		10/27/21 11:13	10/28/21 12:53	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/27/21 11:13	10/28/21 12:53	1
Cobalt	0.00016	J	0.0025	0.00013	mg/L		10/27/21 11:13	10/28/21 12:53	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/27/21 11:13	10/28/21 12:53	1
Lithium	0.0090		0.0050	0.0034	mg/L		10/27/21 11:13	10/28/21 12:53	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/27/21 11:13	10/28/21 12:53	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/27/21 11:13	10/28/21 12:53	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/27/21 11:13	10/28/21 12:53	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/22/21 05:52	10/25/21 12:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5700		100	100	mg/L			10/21/21 16:32	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128612-1

Client Sample ID: APMW-14

Lab Sample ID: 180-128612-2

Date Collected: 10/15/21 09:48

Matrix: Water

Date Received: 10/16/21 09:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2800		50	36	mg/L			10/19/21 15:00	50
Fluoride	0.19	J	1.0	0.13	mg/L			10/19/21 14:41	5
Sulfate	730		5.0	3.8	mg/L			10/19/21 14:41	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/27/21 11:13	10/28/21 13:03	1
Arsenic	0.00058	J	0.0010	0.00031	mg/L		10/27/21 11:13	10/28/21 13:03	1
Barium	0.22		0.010	0.0016	mg/L		10/27/21 11:13	10/28/21 13:03	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/27/21 11:13	10/28/21 13:03	1
Boron	0.78		0.080	0.039	mg/L		10/27/21 11:13	10/28/21 13:03	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/27/21 11:13	10/28/21 13:03	1
Calcium	110		0.50	0.13	mg/L		10/27/21 11:13	10/28/21 13:03	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/27/21 11:13	10/28/21 13:03	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/27/21 11:13	10/28/21 13:03	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/27/21 11:13	10/28/21 13:03	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/27/21 11:13	10/28/21 13:03	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/27/21 11:13	10/28/21 13:03	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/27/21 11:13	10/28/21 13:03	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/27/21 11:13	10/28/21 13:03	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/22/21 05:52	10/25/21 12:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5700		100	100	mg/L			10/21/21 16:32	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128612-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 180-375750/6
Matrix: Water
Analysis Batch: 375750

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			10/19/21 12:40	1
Fluoride	<0.026		0.20	0.026	mg/L			10/19/21 12:40	1
Sulfate	<0.76		1.0	0.76	mg/L			10/19/21 12:40	1

Lab Sample ID: LCS 180-375750/5
Matrix: Water
Analysis Batch: 375750

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	50.4		mg/L		101	90 - 110
Fluoride	2.50	2.58		mg/L		103	90 - 110
Sulfate	50.0	50.4		mg/L		101	90 - 110

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

Lab Sample ID: MB 180-376698/1-A
Matrix: Water
Analysis Batch: 376938

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 376698

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/27/21 11:13	10/28/21 11:51	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		10/27/21 11:13	10/28/21 11:51	1
Barium	<0.0016		0.010	0.0016	mg/L		10/27/21 11:13	10/28/21 11:51	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/27/21 11:13	10/28/21 11:51	1
Boron	<0.039		0.080	0.039	mg/L		10/27/21 11:13	10/28/21 11:51	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/27/21 11:13	10/28/21 11:51	1
Calcium	<0.13		0.50	0.13	mg/L		10/27/21 11:13	10/28/21 11:51	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/27/21 11:13	10/28/21 11:51	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/27/21 11:13	10/28/21 11:51	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/27/21 11:13	10/28/21 11:51	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/27/21 11:13	10/28/21 11:51	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/27/21 11:13	10/28/21 11:51	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/27/21 11:13	10/28/21 11:51	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/27/21 11:13	10/28/21 11:51	1

Lab Sample ID: LCS 180-376698/2-A
Matrix: Water
Analysis Batch: 376938

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 376698

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.250	0.242		mg/L		97	80 - 120
Arsenic	1.00	1.01		mg/L		101	80 - 120
Barium	1.00	1.01		mg/L		101	80 - 120
Beryllium	0.500	0.522		mg/L		104	80 - 120
Boron	1.25	1.19		mg/L		95	80 - 120
Cadmium	0.500	0.511		mg/L		102	80 - 120
Calcium	25.0	28.5		mg/L		114	80 - 120
Chromium	0.500	0.509		mg/L		102	80 - 120
Cobalt	0.500	0.514		mg/L		103	80 - 120

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128612-1

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

Lab Sample ID: LCS 180-376698/2-A
Matrix: Water
Analysis Batch: 376938

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 376698

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.500	0.509		mg/L		102	80 - 120
Lithium	0.500	0.509		mg/L		102	80 - 120
Molybdenum	0.500	0.518		mg/L		104	80 - 120
Selenium	1.00	1.05		mg/L		105	80 - 120
Thallium	1.00	1.05		mg/L		105	80 - 120

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-376193/1-A
Matrix: Water
Analysis Batch: 376443

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376193

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/22/21 05:52	10/25/21 12:05	1

Lab Sample ID: LCS 180-376193/2-A
Matrix: Water
Analysis Batch: 376443

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376193

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00260		mg/L		104	80 - 120

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

Lab Sample ID: MB 180-376161/2
Matrix: Water
Analysis Batch: 376161

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		10	10	mg/L			10/21/21 16:32	1

Lab Sample ID: LCS 180-376161/1
Matrix: Water
Analysis Batch: 376161

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	422	426		mg/L		101	80 - 120

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128612-1

HPLC/IC

Analysis Batch: 375750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128612-1	APMW-16	Total/NA	Water	300.0	
180-128612-1	APMW-16	Total/NA	Water	300.0	
180-128612-2	APMW-14	Total/NA	Water	300.0	
180-128612-2	APMW-14	Total/NA	Water	300.0	
MB 180-375750/6	Method Blank	Total/NA	Water	300.0	
LCS 180-375750/5	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 376193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128612-1	APMW-16	Total/NA	Water	7470A	
180-128612-2	APMW-14	Total/NA	Water	7470A	
MB 180-376193/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-376193/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 376443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128612-1	APMW-16	Total/NA	Water	EPA 7470A	376193
180-128612-2	APMW-14	Total/NA	Water	EPA 7470A	376193
MB 180-376193/1-A	Method Blank	Total/NA	Water	EPA 7470A	376193
LCS 180-376193/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	376193

Prep Batch: 376698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128612-1	APMW-16	Total Recoverable	Water	3005A	
180-128612-2	APMW-14	Total Recoverable	Water	3005A	
MB 180-376698/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-376698/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 376938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128612-1	APMW-16	Total Recoverable	Water	EPA 6020B	376698
180-128612-2	APMW-14	Total Recoverable	Water	EPA 6020B	376698
MB 180-376698/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	376698
LCS 180-376698/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	376698

General Chemistry

Analysis Batch: 376161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128612-1	APMW-16	Total/NA	Water	SM 2540C	
180-128612-2	APMW-14	Total/NA	Water	SM 2540C	
MB 180-376161/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-376161/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Client Information				Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:				
Client Contact				<i>Philip Evans</i>	Brown, Shali						
SCS Contacts				Phone:	E-Mail:		Page:				
				<i>850-332-0192</i>	<i>shali.brown@eurofinset.com</i>						
Company:				Analysis Requested				Job #:			
Address:											Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)
City:											
State, Zip:				Due Date Requested:	TAT Requested (days):		Total Number of Copies:				
AL, 35243								Total Dissolved Solids 300_28Day Chloride Fluoride Sulfate 6020B/7470 Custom 14 (Appl/ ApptV) - Mercury 9315_Re228 Radium 226 9320_Re228 Radium 228 Combined RAD			
Phone:				PO #:	Project #:		Special Instructions/Note:				
205-992-6283				SCS10382606	18020186						
Email:				WO #:	SSOW#:						
SCS Contacts											
Project Name:											
Plant Watson											
Site:											
Ash Pond											
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)						
<i>APMW-16</i>		<i>10/15/21</i>	<i>1045</i>	<i>G</i>	<i>W</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
<i>APMW-14</i>		<i>10/15/21</i>	<i>0948</i>	<i>G</i>	<i>W</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			



Possible Hazard Identification

Non-Hazard
 Flammable
 Skin Irritant
 Poison B
 Unknown
 Radiological

Return To Client
 Disposal By Lab
 Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) _____

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:	
<i>[Signature]</i>		<i>10/15/21</i>	<i>1400</i>		
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
<i>[Signature]</i>	<i>10/15/21 1400</i>	<i>ROH</i>	<i>D Watson</i>	<i>10-16-21</i>	<i>[Signature]</i>
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
				<i>9:30</i>	
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Custody Seals Intact:		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	
<input type="checkbox"/> Yes <input type="checkbox"/> No					

ORIGIN ID: B1XA (850) 336-0192
RDH ENVIRONMENTAL
5720 DOVE DR
PAGE, FL 32571
UNITED STATES US

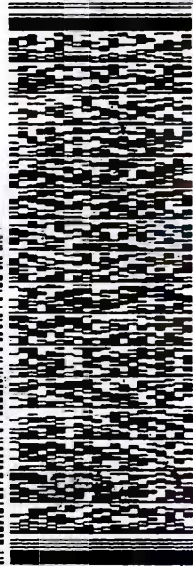
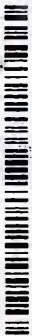
SHIP DATE: 15OCT21
ACT WT: 63.95 LB
CAD: 6983799/5522220
DIMS: 23x12x14 IN
BILL THIRD PARTY

TO TEST AMERICA
TEST AMERICA
301 ALPHA

PITTSBURGH PA 15238

(412) 863-7058
REF: 1

DEPT:



FedEx
Express



212021070907 04

TRK# 2849 6059 0180

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA

15238
PA-US PIT

Indicated temp
prometer ID

35 °C



Initials

SR-001 effective 11/8/18



180-128612 Waybill

- 1
- 2
- 3
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- 12
- 13

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-128612-1

Login Number: 128612

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

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	



ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-128612-2
Client Project/Site: Plant Watson Ash Pond

For:
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Robert Singleton



Authorized for release by:
11/19/2021 9:03:49 AM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416

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Case Narrative

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128612-2

Job ID: 180-128612-2

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

**Job Narrative
180-128612-2**

Comments

No additional comments.

Receipt

The samples were received on 10/16/2021 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5° C.

RAD

Methods 903.0, 9315: Radium 226 batch 533588

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 APMW-16 (180-128612-1), APMW-14 (180-128612-2), (LCS 160-533588/1-A) and (MB 160-533588/24-A)

Methods 904.0, 9320: Radium 228 batch 533591

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 APMW-16 (180-128612-1), APMW-14 (180-128612-2), (LCS 160-533591/1-A) and (MB 160-533591/24-A)

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 Watson Ash Pond

Job ID: 180-128612-2

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 Watson Ash Pond

Job ID: 180-128612-2

Laboratory: Eurofins TestAmerica, 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	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-21
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	06-30-21 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	01-01-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-21
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-21
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	03-01-22
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

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

Sample Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128612-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-128612-1	APMW-16	Water	10/15/21 10:45	10/16/21 09:30
180-128612-2	APMW-14	Water	10/15/21 09:48	10/16/21 09:30

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Method Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128612-2

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

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

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128612-2

Client Sample ID: APMW-16

Lab Sample ID: 180-128612-1

Date Collected: 10/15/21 10:45

Matrix: Water

Date Received: 10/16/21 09:30

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			750.50 mL	1.0 g	533588	10/26/21 09:04	BMP	TAL SL
Total/NA	Analysis	9315		1			537292	11/18/21 07:29	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.50 mL	1.0 g	533591	10/26/21 09:47	BMP	TAL SL
Total/NA	Analysis	9320		1			537058	11/17/21 17:22	ANW	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			537488	11/18/21 21:28	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-14

Lab Sample ID: 180-128612-2

Date Collected: 10/15/21 09:48

Matrix: Water

Date Received: 10/16/21 09:30

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			750.33 mL	1.0 g	533588	10/26/21 09:04	BMP	TAL SL
Total/NA	Analysis	9315		1			537292	11/18/21 07:29	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.33 mL	1.0 g	533591	10/26/21 09:47	BMP	TAL SL
Total/NA	Analysis	9320		1			537058	11/17/21 17:23	ANW	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			537488	11/18/21 21:28	MLK	TAL SL
Instrument ID: NOEQUIP										

Laboratory References:

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

Analyst References:

Lab: TAL SL

Batch Type: Prep

BMP = Bailey Pinette

Batch Type: Analysis

ANW = Amber Woods

FLC = Fernando Cruz

MLK = Micha Korrinhizer

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128612-2

Client Sample ID: APMW-16

Lab Sample ID: 180-128612-1

Date Collected: 10/15/21 10:45

Matrix: Water

Date Received: 10/16/21 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.538		0.364	0.367	1.00	0.519	pCi/L	10/26/21 09:04	11/18/21 07:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.0		40 - 110					10/26/21 09:04	11/18/21 07:29	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.29		0.491	0.505	1.00	0.679	pCi/L	10/26/21 09:47	11/17/21 17:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.0		40 - 110					10/26/21 09:47	11/17/21 17:22	1
Y Carrier	88.2		40 - 110					10/26/21 09:47	11/17/21 17:22	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.83		0.611	0.624	5.00	0.679	pCi/L		11/18/21 21:28	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-128612-2

Client Sample ID: APMW-14

Lab Sample ID: 180-128612-2

Date Collected: 10/15/21 09:48

Matrix: Water

Date Received: 10/16/21 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.54		0.444	0.465	1.00	0.445	pCi/L	10/26/21 09:04	11/18/21 07:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					10/26/21 09:04	11/18/21 07:29	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.04		0.444	0.481	1.00	0.504	pCi/L	10/26/21 09:47	11/17/21 17:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					10/26/21 09:47	11/17/21 17:23	1
Y Carrier	87.1		40 - 110					10/26/21 09:47	11/17/21 17:23	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	3.57		0.628	0.669	5.00	0.504	pCi/L		11/18/21 21:28	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128612-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-533588/24-A
Matrix: Water
Analysis Batch: 537292

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 533588

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.1564	U	0.213	0.213	1.00	0.358	pCi/L	10/26/21 09:04	11/18/21 07:30	1
Carrier	MB	MB	Limits				Prepared		Analyzed	
Ba Carrier	%Yield	Qualifier	40 - 110				10/26/21 09:04		11/18/21 07:30	
	90.3								1	

Lab Sample ID: LCS 160-533588/1-A
Matrix: Water
Analysis Batch: 537058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 533588

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	
				Uncert. (2σ+/-)						
Radium-226	11.3	8.866		1.18	1.00	0.370	pCi/L	78	75 - 125	
Carrier	LCS	LCS	Limits							
Ba Carrier	%Yield	Qualifier	40 - 110							
	106									

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-533591/24-A
Matrix: Water
Analysis Batch: 537058

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 533591

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	-0.01911	U	0.227	0.227	1.00	0.413	pCi/L	10/26/21 09:47	11/17/21 17:23	1
Carrier	MB	MB	Limits				Prepared		Analyzed	
Ba Carrier	%Yield	Qualifier	40 - 110				10/26/21 09:47		11/17/21 17:23	
	90.3								1	
Y Carrier	90.8		40 - 110				10/26/21 09:47		11/17/21 17:23	
									1	

Lab Sample ID: LCS 160-533591/1-A
Matrix: Water
Analysis Batch: 537097

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 533591

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	
				Uncert. (2σ+/-)						
Radium-228	9.14	7.627		0.949	1.00	0.399	pCi/L	83	75 - 125	
Carrier	LCS	LCS	Limits							
Ba Carrier	%Yield	Qualifier	40 - 110							
	106									
Y Carrier	77.0		40 - 110							

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128612-2

Rad

Prep Batch: 533588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128612-1	APMW-16	Total/NA	Water	PrecSep-21	
180-128612-2	APMW-14	Total/NA	Water	PrecSep-21	
MB 160-533588/24-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-533588/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 533591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128612-1	APMW-16	Total/NA	Water	PrecSep_0	
180-128612-2	APMW-14	Total/NA	Water	PrecSep_0	
MB 160-533591/24-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-533591/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

ORIGIN ID: B1XA (850) 336-0192
RDH ENVIRONMENTAL
5720 DOVE DR
PAGE, FL 32571
UNITED STATES US

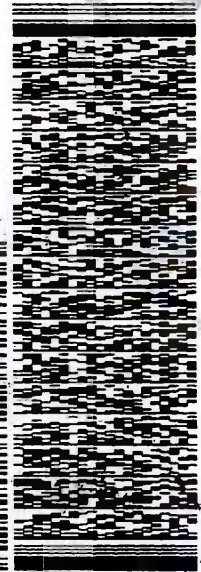
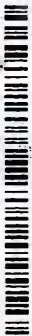
SHIP DATE: 15OCT21
ACTING: 63.95 LB
CAD: 6993799/5522220
DIMS: 23x12x14 IN
BILL THIRD PARTY

TO TEST AMERICA
TEST AMERICA
301 ALPHA

PITTSBURGH PA 15238

(412) 863-7058
REF: 1

DEPT:



SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# 2849 6059 0180

XO AGCA

15238
PA-US PIT

Indicated temp 35 °C
prometer ID 8
Initials LY

SR-001 effective 11/8/18



180-128612 Waybill

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

Chain of Custody Record



Environment Testing
 America



Client Information (Sub Contract Lab)		Lab PM: Brown, Shali	Carrier Tracking No(s):	COC No: 180-446996.1							
Company: TestAmerica Laboratories, Inc.		E-Mail: Shali.Brown@Eurofinset.com	State of Origin: Georgia	Page: Page 1 of 1							
Address: 13715 Rider Trail North, Earth City MO, 63045		Phone: 314-298-8566(Tel) 314-298-8757(Fax)	Accreditations Required (See note):	Job #: 180-128612-2							
Due Date Requested: 11/18/2021		Project #: 18020186	Analysis Requested								
TAT Requested (days):		SSOW#:	Preservation Codes: A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:								
Matrix (W=water, S=solid, O=wastewater, T=tissue, A=air)		Sample Type (C=Comp, G=grab)	Sample Time	Sample Date	Sample Identification - Client ID (Lab ID)	Field Filtered Sample (Yes or No)	Form MS/MSD (Yes or No)	9315_Ra226/PreSep_21 Radium 226	Ra226/Ra228_GFP/Combined Radium 226 and Radium 228	Total Number of Containers	Special Instructions/Note:
APMW-16 (180-128612-1)		Water	10:45 Eastern	10/15/21	APMW-16 (180-128612-1)	X	X	X	X	2	
APMW-14 (180-128612-2)		Water	09:48 Eastern	10/15/21	APMW-14 (180-128612-2)	X	X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica

Possible Hazard Identification
 Unconfirmed

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

Empty Kit Relinquished by: _____ Date: _____ Time: _____

Relinquished by: MO Date/Time: 10-18-21 1700 Received by: FEDEX Company: FEDEX

Relinquished by: _____ Date/Time: _____ Received by: Agan Company: _____

Relinquished by: _____ Date/Time: _____ Received by: _____ Company: _____

Custody Seals Intact: MO Date/Time: 10/19/2021 0915 Company: ETA STL

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)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements: _____



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-128612-2

Login Number: 128612

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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 <math><6\text{mm}</math> (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: 180-128612-2

Login Number: 128612

List Number: 2

Creator: Johnson, Autumn R

List Source: Eurofins TestAmerica, St. Louis

List Creation: 10/19/21 12:46 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.	False	



ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-128944-1

Client Project/Site: Plant Watson Ash Pond

For:

Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Robert Singleton



Authorized for release by:
11/6/2021 10:23:21 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.com

LINKS

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results through
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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128944-1

Job ID: 180-128944-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative
180-128944-1

Comments

No additional comments.

Receipt

The samples were received on 10/23/2021 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.0° C.

GC Semi VOA

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

Metals

Method 6020B: The following samples were diluted to bring the concentration of target analytes within the calibration range: APMW-6R (180-128944-3), APMW-8 (180-128944-5) and DUP-04 (180-128944-6). Elevated reporting limits (RLs) are provided.

Method 6020B: The following samples were diluted due to the nature of the sample matrix: APMW-3 (180-128944-4) and DUP-05 (180-128944-7). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or 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 Watson Ash Pond

Job ID: 180-128944-1

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 Watson Ash Pond

Job ID: 180-128944-1

Laboratory: Eurofins TestAmerica, 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	06-27-21 *
California	State	2891	04-30-22
Connecticut	State	PH-0688	09-30-22
Florida	NELAP	E871008	06-30-22
Georgia	State	PA 02-00416	04-30-22
Illinois	NELAP	004375	06-30-22
Kansas	NELAP	E-10350	01-31-22
Kentucky (UST)	State	162013	04-30-22
Kentucky (WW)	State	KY98043	12-31-21
Louisiana	NELAP	04041	06-30-22
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-21
Nevada	State	PA00164	08-31-22
New Hampshire	NELAP	2030	04-05-22
New Jersey	NELAP	PA005	06-30-22
New York	NELAP	11182	04-01-22
North Carolina (WW/SW)	State	434	12-31-21
North Dakota	State	R-227	04-30-22
Oregon	NELAP	PA-2151	02-06-22
Pennsylvania	NELAP	02-00416	04-30-22
Rhode Island	State	LAO00362	12-31-21
South Carolina	State	89014	04-30-22
Texas	NELAP	T104704528	03-31-22
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-22
Virginia	NELAP	10043	09-15-22
West Virginia DEP	State	142	01-31-22
Wisconsin	State	998027800	08-31-22

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



Sample Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128944-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-128944-1	APMW-15	Water	10/20/21 12:10	10/23/21 10:30
180-128944-2	APMW-13	Water	10/20/21 10:00	10/23/21 10:30
180-128944-3	APMW-6R	Water	10/20/21 15:20	10/23/21 10:30
180-128944-4	APMW-3	Water	10/21/21 10:38	10/23/21 10:30
180-128944-5	APMW-8	Water	10/21/21 15:38	10/23/21 10:30
180-128944-6	DUP-04	Water	10/20/21 14:20	10/23/21 10:30
180-128944-7	DUP-05	Water	10/21/21 11:38	10/23/21 10:30

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Method Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128944-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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:

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

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128944-1

Client Sample ID: APMW-15

Lab Sample ID: 180-128944-1

Date Collected: 10/20/21 12:10

Matrix: Water

Date Received: 10/23/21 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	300.0		5			376352	10/24/21 11:02	M1D	TAL PIT
Instrument ID: CHICS2100B										
Total/NA	Analysis	300.0		50			376352	10/24/21 11:18	M1D	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	376983	10/29/21 12:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			377415	10/30/21 17:13	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	376983	10/29/21 12:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			377546	11/03/21 13:22	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	376492	10/26/21 05:52	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			376612	10/26/21 14:17	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	376622	10/26/21 20:07	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-13

Lab Sample ID: 180-128944-2

Date Collected: 10/20/21 10:00

Matrix: Water

Date Received: 10/23/21 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	300.0		5			376352	10/24/21 11:34	M1D	TAL PIT
Instrument ID: CHICS2100B										
Total/NA	Analysis	300.0		50			376352	10/24/21 11:51	M1D	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	376983	10/29/21 12:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			377415	10/30/21 17:24	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	376983	10/29/21 12:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			377546	11/03/21 13:39	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	376492	10/26/21 05:52	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			376612	10/26/21 14:21	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	25 mL	100 mL	376622	10/26/21 20:07	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-6R

Lab Sample ID: 180-128944-3

Date Collected: 10/20/21 15:20

Matrix: Water

Date Received: 10/23/21 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	300.0		10			376352	10/24/21 12:40	M1D	TAL PIT
Instrument ID: CHICS2100B										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128944-1

Client Sample ID: APMW-6R

Lab Sample ID: 180-128944-3

Date Collected: 10/20/21 15:20

Matrix: Water

Date Received: 10/23/21 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	300.0		100			376352	10/24/21 12:56	M1D	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	376983	10/29/21 12:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			377415	10/30/21 17:28	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	376983	10/29/21 12:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		5			377546	11/03/21 13:42	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	376492	10/26/21 05:52	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			376612	10/26/21 14:22	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	376622	10/26/21 20:07	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-3

Lab Sample ID: 180-128944-4

Date Collected: 10/21/21 10:38

Matrix: Water

Date Received: 10/23/21 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	300.0		25			376352	10/24/21 13:12	M1D	TAL PIT
Instrument ID: CHICS2100B										
Total/NA	Analysis	300.0		250			376352	10/24/21 13:29	M1D	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	376983	10/29/21 12:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			377415	10/30/21 17:42	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	376983	10/29/21 12:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		2			377546	11/03/21 13:53	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	376492	10/26/21 05:52	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			376612	10/26/21 14:23	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	5 mL	100 mL	376622	10/26/21 20:07	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-8

Lab Sample ID: 180-128944-5

Date Collected: 10/21/21 15:38

Matrix: Water

Date Received: 10/23/21 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	300.0		10			376352	10/24/21 13:45	M1D	TAL PIT
Instrument ID: CHICS2100B										
Total/NA	Analysis	300.0		100			376352	10/24/21 14:04	M1D	TAL PIT
Instrument ID: CHICS2100B										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128944-1

Client Sample ID: APMW-8

Lab Sample ID: 180-128944-5

Date Collected: 10/21/21 15:38

Matrix: Water

Date Received: 10/23/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	376983	10/29/21 12:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			377415	10/30/21 17:57	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	376983	10/29/21 12:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		10			377546	11/03/21 14:04	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	376492	10/26/21 05:52	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			376612	10/26/21 14:24	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	376622	10/26/21 20:07	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: DUP-04

Lab Sample ID: 180-128944-6

Date Collected: 10/20/21 14:20

Matrix: Water

Date Received: 10/23/21 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	300.0		10			376352	10/24/21 14:20	M1D	TAL PIT
Instrument ID: CHICS2100B										
Total/NA	Analysis	300.0		100			376352	10/24/21 14:37	M1D	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	376983	10/29/21 12:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			377415	10/30/21 18:12	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	376983	10/29/21 12:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		10			377546	11/03/21 14:07	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	376492	10/26/21 05:52	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			376612	10/26/21 14:25	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	376622	10/26/21 20:07	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: DUP-05

Lab Sample ID: 180-128944-7

Date Collected: 10/21/21 11:38

Matrix: Water

Date Received: 10/23/21 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	300.0		25			376352	10/24/21 14:49	M1D	TAL PIT
Instrument ID: CHICS2100B										
Total/NA	Analysis	300.0		250			376352	10/24/21 15:01	M1D	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	376983	10/29/21 12:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			377415	10/30/21 18:26	RSK	TAL PIT
Instrument ID: A										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128944-1

Client Sample ID: DUP-05

Lab Sample ID: 180-128944-7

Date Collected: 10/21/21 11:38

Matrix: Water

Date Received: 10/23/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	376983	10/29/21 12:00	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		2			377546	11/03/21 14:10	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	376492	10/26/21 05:52	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			376612	10/26/21 14:26	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	5 mL	100 mL	376622	10/26/21 20:07	KMM	TAL PIT
Instrument ID: NOEQUIP										

Laboratory References:

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

Analyst References:

Lab: TAL PIT

Batch Type: Prep

MM1 = Mary Beth Miller

RJR = Ron Rosenbaum

Batch Type: Analysis

KMM = Kendric Moore

M1D = Maureen Donlin

RJR = Ron Rosenbaum

RSK = Robert Kurtz

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128944-1

Client Sample ID: APMW-15

Lab Sample ID: 180-128944-1

Date Collected: 10/20/21 12:10

Matrix: Water

Date Received: 10/23/21 10:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5400		50	36	mg/L			10/24/21 11:18	50
Fluoride	0.25	J	1.0	0.13	mg/L			10/24/21 11:02	5
Sulfate	93		5.0	3.8	mg/L			10/24/21 11:02	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/29/21 12:00	10/30/21 17:13	1
Arsenic	0.00070	J	0.0010	0.00031	mg/L		10/29/21 12:00	10/30/21 17:13	1
Barium	0.049		0.010	0.0016	mg/L		10/29/21 12:00	10/30/21 17:13	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/29/21 12:00	10/30/21 17:13	1
Boron	0.65		0.080	0.039	mg/L		10/29/21 12:00	11/03/21 13:22	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/29/21 12:00	10/30/21 17:13	1
Calcium	68		0.50	0.13	mg/L		10/29/21 12:00	10/30/21 17:13	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/29/21 12:00	10/30/21 17:13	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/29/21 12:00	10/30/21 17:13	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/29/21 12:00	10/30/21 17:13	1
Lithium	0.0092		0.0050	0.0034	mg/L		10/29/21 12:00	10/30/21 17:13	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/29/21 12:00	10/30/21 17:13	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/29/21 12:00	10/30/21 17:13	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/29/21 12:00	10/30/21 17:13	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/26/21 05:52	10/26/21 14:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5200		100	100	mg/L			10/26/21 20:07	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128944-1

Client Sample ID: APMW-13

Lab Sample ID: 180-128944-2

Date Collected: 10/20/21 10:00

Matrix: Water

Date Received: 10/23/21 10:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3400		50	36	mg/L			10/24/21 11:51	50
Fluoride	0.14	J	1.0	0.13	mg/L			10/24/21 11:34	5
Sulfate	840		5.0	3.8	mg/L			10/24/21 11:34	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/29/21 12:00	10/30/21 17:24	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		10/29/21 12:00	10/30/21 17:24	1
Barium	0.25		0.010	0.0016	mg/L		10/29/21 12:00	10/30/21 17:24	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/29/21 12:00	10/30/21 17:24	1
Boron	0.64		0.080	0.039	mg/L		10/29/21 12:00	11/03/21 13:39	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/29/21 12:00	10/30/21 17:24	1
Calcium	97		0.50	0.13	mg/L		10/29/21 12:00	10/30/21 17:24	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/29/21 12:00	10/30/21 17:24	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/29/21 12:00	10/30/21 17:24	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/29/21 12:00	10/30/21 17:24	1
Lithium	0.0038	J	0.0050	0.0034	mg/L		10/29/21 12:00	10/30/21 17:24	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/29/21 12:00	10/30/21 17:24	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/29/21 12:00	10/30/21 17:24	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/29/21 12:00	10/30/21 17:24	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/26/21 05:52	10/26/21 14:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3400		40	40	mg/L			10/26/21 20:07	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128944-1

Client Sample ID: APMW-6R

Lab Sample ID: 180-128944-3

Date Collected: 10/20/21 15:20

Matrix: Water

Date Received: 10/23/21 10:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4100		100	71	mg/L			10/24/21 12:56	100
Fluoride	0.29	J	2.0	0.26	mg/L			10/24/21 12:40	10
Sulfate	830		10	7.6	mg/L			10/24/21 12:40	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/29/21 12:00	10/30/21 17:28	1
Arsenic	0.20		0.0010	0.00031	mg/L		10/29/21 12:00	10/30/21 17:28	1
Barium	0.048		0.010	0.0016	mg/L		10/29/21 12:00	10/30/21 17:28	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/29/21 12:00	10/30/21 17:28	1
Boron	11		0.40	0.19	mg/L		10/29/21 12:00	11/03/21 13:42	5
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/29/21 12:00	10/30/21 17:28	1
Calcium	400		0.50	0.13	mg/L		10/29/21 12:00	10/30/21 17:28	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/29/21 12:00	10/30/21 17:28	1
Cobalt	0.0032		0.0025	0.00013	mg/L		10/29/21 12:00	10/30/21 17:28	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/29/21 12:00	10/30/21 17:28	1
Lithium	0.054		0.0050	0.0034	mg/L		10/29/21 12:00	10/30/21 17:28	1
Molybdenum	0.45		0.015	0.00061	mg/L		10/29/21 12:00	10/30/21 17:28	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/29/21 12:00	10/30/21 17:28	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/29/21 12:00	10/30/21 17:28	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/26/21 05:52	10/26/21 14:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	7600		100	100	mg/L			10/26/21 20:07	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128944-1

Client Sample ID: APMW-3

Lab Sample ID: 180-128944-4

Date Collected: 10/21/21 10:38

Matrix: Water

Date Received: 10/23/21 10:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9100		250	180	mg/L			10/24/21 13:29	250
Fluoride	<0.65		5.0	0.65	mg/L			10/24/21 13:12	25
Sulfate	980		25	19	mg/L			10/24/21 13:12	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/29/21 12:00	10/30/21 17:42	1
Arsenic	0.043		0.0010	0.00031	mg/L		10/29/21 12:00	10/30/21 17:42	1
Barium	0.095		0.010	0.0016	mg/L		10/29/21 12:00	10/30/21 17:42	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/29/21 12:00	10/30/21 17:42	1
Boron	5.1		0.16	0.077	mg/L		10/29/21 12:00	11/03/21 13:53	2
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/29/21 12:00	10/30/21 17:42	1
Calcium	350		0.50	0.13	mg/L		10/29/21 12:00	10/30/21 17:42	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/29/21 12:00	10/30/21 17:42	1
Cobalt	0.0040		0.0025	0.00013	mg/L		10/29/21 12:00	10/30/21 17:42	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/29/21 12:00	10/30/21 17:42	1
Lithium	0.067		0.0050	0.0034	mg/L		10/29/21 12:00	10/30/21 17:42	1
Molybdenum	0.071		0.015	0.00061	mg/L		10/29/21 12:00	10/30/21 17:42	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/29/21 12:00	10/30/21 17:42	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/29/21 12:00	10/30/21 17:42	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/26/21 05:52	10/26/21 14:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	18000		200	200	mg/L			10/26/21 20:07	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128944-1

Client Sample ID: APMW-8

Lab Sample ID: 180-128944-5

Date Collected: 10/21/21 15:38

Matrix: Water

Date Received: 10/23/21 10:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3700		100	71	mg/L			10/24/21 14:04	100
Fluoride	1.0	J	2.0	0.26	mg/L			10/24/21 13:45	10
Sulfate	630		10	7.6	mg/L			10/24/21 13:45	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/29/21 12:00	10/30/21 17:57	1
Arsenic	0.026		0.0010	0.00031	mg/L		10/29/21 12:00	10/30/21 17:57	1
Barium	0.23		0.010	0.0016	mg/L		10/29/21 12:00	10/30/21 17:57	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/29/21 12:00	10/30/21 17:57	1
Boron	22		0.80	0.39	mg/L		10/29/21 12:00	11/03/21 14:04	10
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/29/21 12:00	10/30/21 17:57	1
Calcium	500		0.50	0.13	mg/L		10/29/21 12:00	10/30/21 17:57	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/29/21 12:00	10/30/21 17:57	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/29/21 12:00	10/30/21 17:57	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/29/21 12:00	10/30/21 17:57	1
Lithium	0.074		0.0050	0.0034	mg/L		10/29/21 12:00	10/30/21 17:57	1
Molybdenum	0.057		0.015	0.00061	mg/L		10/29/21 12:00	10/30/21 17:57	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/29/21 12:00	10/30/21 17:57	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/29/21 12:00	10/30/21 17:57	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/26/21 05:52	10/26/21 14:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	6600		100	100	mg/L			10/26/21 20:07	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128944-1

Client Sample ID: DUP-04

Lab Sample ID: 180-128944-6

Date Collected: 10/20/21 14:20

Matrix: Water

Date Received: 10/23/21 10:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4200		100	71	mg/L			10/24/21 14:37	100
Fluoride	<0.26		2.0	0.26	mg/L			10/24/21 14:20	10
Sulfate	900		10	7.6	mg/L			10/24/21 14:20	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/29/21 12:00	10/30/21 18:12	1
Arsenic	0.21		0.0010	0.00031	mg/L		10/29/21 12:00	10/30/21 18:12	1
Barium	0.049		0.010	0.0016	mg/L		10/29/21 12:00	10/30/21 18:12	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/29/21 12:00	10/30/21 18:12	1
Boron	12		0.80	0.39	mg/L		10/29/21 12:00	11/03/21 14:07	10
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/29/21 12:00	10/30/21 18:12	1
Calcium	410		0.50	0.13	mg/L		10/29/21 12:00	10/30/21 18:12	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/29/21 12:00	10/30/21 18:12	1
Cobalt	0.0033		0.0025	0.00013	mg/L		10/29/21 12:00	10/30/21 18:12	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/29/21 12:00	10/30/21 18:12	1
Lithium	0.056		0.0050	0.0034	mg/L		10/29/21 12:00	10/30/21 18:12	1
Molybdenum	0.47		0.015	0.00061	mg/L		10/29/21 12:00	10/30/21 18:12	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/29/21 12:00	10/30/21 18:12	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/29/21 12:00	10/30/21 18:12	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/26/21 05:52	10/26/21 14:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	7200		100	100	mg/L			10/26/21 20:07	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128944-1

Client Sample ID: DUP-05

Lab Sample ID: 180-128944-7

Date Collected: 10/21/21 11:38

Matrix: Water

Date Received: 10/23/21 10:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10000		250	180	mg/L			10/24/21 15:01	250
Fluoride	<0.65		5.0	0.65	mg/L			10/24/21 14:49	25
Sulfate	1100		25	19	mg/L			10/24/21 14:49	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/29/21 12:00	10/30/21 18:26	1
Arsenic	0.040		0.0010	0.00031	mg/L		10/29/21 12:00	10/30/21 18:26	1
Barium	0.097		0.010	0.0016	mg/L		10/29/21 12:00	10/30/21 18:26	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/29/21 12:00	10/30/21 18:26	1
Boron	5.0		0.16	0.077	mg/L		10/29/21 12:00	11/03/21 14:10	2
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/29/21 12:00	10/30/21 18:26	1
Calcium	340		0.50	0.13	mg/L		10/29/21 12:00	10/30/21 18:26	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/29/21 12:00	10/30/21 18:26	1
Cobalt	0.0036		0.0025	0.00013	mg/L		10/29/21 12:00	10/30/21 18:26	1
Lead	0.00018	J	0.0010	0.00013	mg/L		10/29/21 12:00	10/30/21 18:26	1
Lithium	0.066		0.0050	0.0034	mg/L		10/29/21 12:00	10/30/21 18:26	1
Molybdenum	0.068		0.015	0.00061	mg/L		10/29/21 12:00	10/30/21 18:26	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/29/21 12:00	10/30/21 18:26	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/29/21 12:00	10/30/21 18:26	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/26/21 05:52	10/26/21 14:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	18000		200	200	mg/L			10/26/21 20:07	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128944-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 180-376352/7
Matrix: Water
Analysis Batch: 376352

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			10/24/21 08:33	1
Fluoride	<0.026		0.20	0.026	mg/L			10/24/21 08:33	1
Sulfate	<0.76		1.0	0.76	mg/L			10/24/21 08:33	1

Lab Sample ID: LCS 180-376352/6
Matrix: Water
Analysis Batch: 376352

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	48.6		mg/L		97	90 - 110
Fluoride	2.50	2.50		mg/L		100	90 - 110
Sulfate	50.0	48.9		mg/L		98	90 - 110

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

Lab Sample ID: MB 180-376983/1-A
Matrix: Water
Analysis Batch: 377415

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 376983

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/29/21 12:00	10/30/21 15:10	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		10/29/21 12:00	10/30/21 15:10	1
Barium	<0.0016		0.010	0.0016	mg/L		10/29/21 12:00	10/30/21 15:10	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/29/21 12:00	10/30/21 15:10	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/29/21 12:00	10/30/21 15:10	1
Calcium	<0.13		0.50	0.13	mg/L		10/29/21 12:00	10/30/21 15:10	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/29/21 12:00	10/30/21 15:10	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/29/21 12:00	10/30/21 15:10	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/29/21 12:00	10/30/21 15:10	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/29/21 12:00	10/30/21 15:10	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/29/21 12:00	10/30/21 15:10	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/29/21 12:00	10/30/21 15:10	1
Thallium	0.000376	J	0.0010	0.00015	mg/L		10/29/21 12:00	10/30/21 15:10	1

Lab Sample ID: MB 180-376983/1-A
Matrix: Water
Analysis Batch: 377546

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 376983

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039		0.080	0.039	mg/L		10/29/21 12:00	11/03/21 12:59	1

Lab Sample ID: LCS 180-376983/2-A
Matrix: Water
Analysis Batch: 377415

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 376983

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.250	0.244		mg/L		98	80 - 120
Arsenic	1.00	0.968		mg/L		97	80 - 120
Barium	1.00	0.995		mg/L		99	80 - 120
Beryllium	0.500	0.503		mg/L		101	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128944-1

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

Lab Sample ID: LCS 180-376983/2-A
Matrix: Water
Analysis Batch: 377415

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 376983

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.500	0.503		mg/L		101	80 - 120
Calcium	25.0	23.8		mg/L		95	80 - 120
Chromium	0.500	0.500		mg/L		100	80 - 120
Cobalt	0.500	0.494		mg/L		99	80 - 120
Lead	0.500	0.497		mg/L		99	80 - 120
Lithium	0.500	0.483		mg/L		97	80 - 120
Molybdenum	0.500	0.503		mg/L		101	80 - 120
Selenium	1.00	0.998		mg/L		100	80 - 120
Thallium	1.00	1.01		mg/L		101	80 - 120

Lab Sample ID: LCS 180-376983/2-A
Matrix: Water
Analysis Batch: 377546

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 376983

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.25	1.48		mg/L		118	80 - 120

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-376492/1-A
Matrix: Water
Analysis Batch: 376612

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376492

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/26/21 05:52	10/26/21 14:08	1

Lab Sample ID: LCS 180-376492/2-A
Matrix: Water
Analysis Batch: 376612

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376492

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00242		mg/L		97	80 - 120

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

Lab Sample ID: MB 180-376622/2
Matrix: Water
Analysis Batch: 376622

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		10	10	mg/L			10/26/21 20:07	1

Lab Sample ID: LCS 180-376622/1
Matrix: Water
Analysis Batch: 376622

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	422	441		mg/L		104	80 - 120

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128944-1

HPLC/IC

Analysis Batch: 376352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128944-1	APMW-15	Total/NA	Water	300.0	
180-128944-1	APMW-15	Total/NA	Water	300.0	
180-128944-2	APMW-13	Total/NA	Water	300.0	
180-128944-2	APMW-13	Total/NA	Water	300.0	
180-128944-3	APMW-6R	Total/NA	Water	300.0	
180-128944-3	APMW-6R	Total/NA	Water	300.0	
180-128944-4	APMW-3	Total/NA	Water	300.0	
180-128944-4	APMW-3	Total/NA	Water	300.0	
180-128944-5	APMW-8	Total/NA	Water	300.0	
180-128944-5	APMW-8	Total/NA	Water	300.0	
180-128944-6	DUP-04	Total/NA	Water	300.0	
180-128944-6	DUP-04	Total/NA	Water	300.0	
180-128944-7	DUP-05	Total/NA	Water	300.0	
180-128944-7	DUP-05	Total/NA	Water	300.0	
MB 180-376352/7	Method Blank	Total/NA	Water	300.0	
LCS 180-376352/6	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 376492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128944-1	APMW-15	Total/NA	Water	7470A	
180-128944-2	APMW-13	Total/NA	Water	7470A	
180-128944-3	APMW-6R	Total/NA	Water	7470A	
180-128944-4	APMW-3	Total/NA	Water	7470A	
180-128944-5	APMW-8	Total/NA	Water	7470A	
180-128944-6	DUP-04	Total/NA	Water	7470A	
180-128944-7	DUP-05	Total/NA	Water	7470A	
MB 180-376492/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-376492/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 376612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128944-1	APMW-15	Total/NA	Water	EPA 7470A	376492
180-128944-2	APMW-13	Total/NA	Water	EPA 7470A	376492
180-128944-3	APMW-6R	Total/NA	Water	EPA 7470A	376492
180-128944-4	APMW-3	Total/NA	Water	EPA 7470A	376492
180-128944-5	APMW-8	Total/NA	Water	EPA 7470A	376492
180-128944-6	DUP-04	Total/NA	Water	EPA 7470A	376492
180-128944-7	DUP-05	Total/NA	Water	EPA 7470A	376492
MB 180-376492/1-A	Method Blank	Total/NA	Water	EPA 7470A	376492
LCS 180-376492/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	376492

Prep Batch: 376983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128944-1	APMW-15	Total Recoverable	Water	3005A	
180-128944-2	APMW-13	Total Recoverable	Water	3005A	
180-128944-3	APMW-6R	Total Recoverable	Water	3005A	
180-128944-4	APMW-3	Total Recoverable	Water	3005A	
180-128944-5	APMW-8	Total Recoverable	Water	3005A	
180-128944-6	DUP-04	Total Recoverable	Water	3005A	

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QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128944-1

Metals (Continued)

Prep Batch: 376983 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128944-7	DUP-05	Total Recoverable	Water	3005A	
MB 180-376983/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-376983/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 377415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128944-1	APMW-15	Total Recoverable	Water	EPA 6020B	376983
180-128944-2	APMW-13	Total Recoverable	Water	EPA 6020B	376983
180-128944-3	APMW-6R	Total Recoverable	Water	EPA 6020B	376983
180-128944-4	APMW-3	Total Recoverable	Water	EPA 6020B	376983
180-128944-5	APMW-8	Total Recoverable	Water	EPA 6020B	376983
180-128944-6	DUP-04	Total Recoverable	Water	EPA 6020B	376983
180-128944-7	DUP-05	Total Recoverable	Water	EPA 6020B	376983
MB 180-376983/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	376983
LCS 180-376983/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	376983

Analysis Batch: 377546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128944-1	APMW-15	Total Recoverable	Water	EPA 6020B	376983
180-128944-2	APMW-13	Total Recoverable	Water	EPA 6020B	376983
180-128944-3	APMW-6R	Total Recoverable	Water	EPA 6020B	376983
180-128944-4	APMW-3	Total Recoverable	Water	EPA 6020B	376983
180-128944-5	APMW-8	Total Recoverable	Water	EPA 6020B	376983
180-128944-6	DUP-04	Total Recoverable	Water	EPA 6020B	376983
180-128944-7	DUP-05	Total Recoverable	Water	EPA 6020B	376983
MB 180-376983/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	376983
LCS 180-376983/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	376983

General Chemistry

Analysis Batch: 376622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128944-1	APMW-15	Total/NA	Water	SM 2540C	
180-128944-2	APMW-13	Total/NA	Water	SM 2540C	
180-128944-3	APMW-6R	Total/NA	Water	SM 2540C	
180-128944-4	APMW-3	Total/NA	Water	SM 2540C	
180-128944-5	APMW-8	Total/NA	Water	SM 2540C	
180-128944-6	DUP-04	Total/NA	Water	SM 2540C	
180-128944-7	DUP-05	Total/NA	Water	SM 2540C	
MB 180-376622/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-376622/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Phone (412) 963-2468

Chain of Custody Record



Client Information		Sampler: <i>Rick Hagendorfer / Colton Evans</i>	Lab PM: Brown, Shali	Carrier Tracking No(s):	COC No: 180-75097-10600.2
Client Contact: Rick Hagendorfer		Phone: <i>850-336-0192</i>	E-Mail: Shali.Brown@Eurofinset.com	State of Origin:	Page: Page 2 of 2

Company: RDH Environmental Services Inc		PWSID:	Analysis Requested			Job #:
Address: 5720 Dove Drive		Due Date Requested:				Preservation Codes:

City: Pace		TAT Requested (days):		Total Number of Containers Field Filtered Sample (Yes or No) 2540C_Calcd, 300_ORGFM_28D 6020 - Custom 14 (Appil App IV) + Hg 9315_Raz26, 9320_Raz28, Raz28Ra228_GFPC		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)
State, Zip: FL, 32571		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No				
Phone:		PO #: SCS10382606				
Email: rickhagendorfer@gmail.com		WO #:				Other:
Project Name: Plant Watson Ash Pond		Project #: 18020186				
Site:		SSOW#:				

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)			Total Number of Containers	Special Instructions/Note:
					MS	MS/MS	MS/MS/MS		
Preservation Code:					N	D	D		
<i>APMW-15</i>	<i>12-20-21</i>	<i>1210</i>	<i>G</i>	<i>W</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>4</i>	
<i>APMW-13</i>	<i>12-20-21</i>	<i>1000</i>	<i>G</i>		<i>X</i>	<i>X</i>	<i>X</i>	<i>4</i>	
<i>APMW-6R</i>	<i>12-20-21</i>	<i>1520</i>	<i>G</i>		<i>X</i>	<i>X</i>	<i>X</i>	<i>4</i>	
<i>APMW-3</i>	<i>12-21-21</i>	<i>1038</i>	<i>G</i>		<i>X</i>	<i>X</i>	<i>X</i>	<i>4</i>	
<i>APMW-8</i>	<i>12-21-21</i>	<i>1538</i>	<i>G</i>		<i>X</i>	<i>X</i>	<i>X</i>	<i>4</i>	
<i>DUP-04</i>	<i>12-20-21</i>	<i>1420</i>	<i>G</i>		<i>X</i>	<i>X</i>	<i>X</i>	<i>4</i>	
<i>DUP-05</i>	<i>12-21-21</i>	<i>1138</i>	<i>G</i>	<i>V</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>4</i>	



Possible Hazard Identification <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) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
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Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:
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Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
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Relinquished by: <i>Rick Hagendorfer</i>	Date/Time: <i>12-22-21 1426</i>	Company: <i>RDH ENV.</i>	Received by: <i>P. Watson</i>	Date/Time: <i>10-23-21</i>	Company: <i>RDH ENV.</i>
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time: <i>1030</i>	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:
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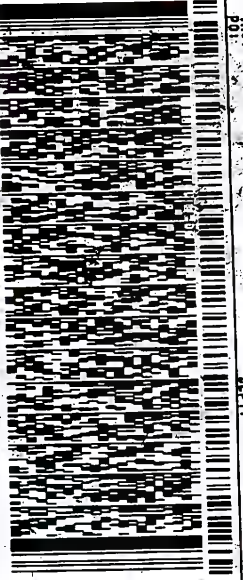
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ORIGIN ID: PMSA (412) 863-7058
TESTAMERICA PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH PA 15238
UNITED STATES US

SHIP DATE: 22OCT21
ACTWT: 67.15 LB
CAD: 6994736/STFE2220
DIMS: 26x15x14 IN
BILL THIRD PARTY

TO
TESTAMERICA PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH PA 15238

(412) 863-7058
REF1
DEPT



MPS# 2852 6025 2557
OZS# 2852 6025 2535

3 of 3
SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA

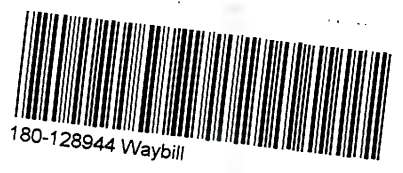
AHS
15238
PIT
PA-US

Uncorrected temp
Thermometer ID

2.0 °C

CF 03 Initials

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



180-128944 Waybill

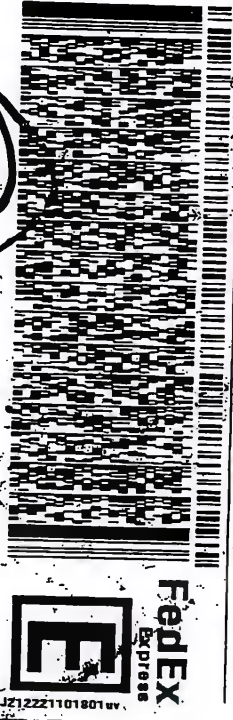
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- 7
- 8
- 9
- 10
- 11
- 12
- 13

ORIGIN ID: PNSA (412) 963-7058
 TESTAMERICA-PITTSBURGH LAB
 SEE CHEERS BEFORE BILL
 301 ALPHA DR
 PITTSBURGH, PA 15238
 UNITED STATES US

SHIP DATE: 22OCT21
 ACTUATOR: 412E01B
 CSD: 694796/STFE220
 DMS: 24X15X14 IN
 BILL: THIRD PARTY

TESTAMERICA PITTSBURGH LAB
 SEE CHEERS 5 BEFORE BILL
 301 ALPHA DR
 PITTSBURGH PA 15238

Part # 156297433 HUB EXP 08/20



1 of 3
 2852 6025 2535
 MASTER ##

SATURDAY 2:00P
 PRIORITY OVERNIGHT
 AHS
 15238
 PIT

XOAGCA

PA-US

Uncorrected temp 3.1 °C
 Thermometer ID 81
 CF 0 Initials [Signature]
 PT-M-SR-001 effective 11/9/18

- 1
- 2
- 3
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- 8
- 9
- 10
- 11
- 12
- 13

ORIGIN: 10:01:058
 TESTAMERICA PITTSBURGH LAB
 CHEERS 5 BEFORE BILL
 PITTSBURGH PA 15238
 UNLIMITED STATES US
 (412) 863-7058

SHIP DATE:
 ACTG: 699475
 DUNS: 26315
 BILL THIRD

TESTAMERICA PITTSBURGH LAB
 SEE CHEERS 5 BEFORE BILL
 301 ALPHA DR
 PITTSBURGH PA 15238
 (412) 863-7058
 NEFT



SATURDAY 12:00P
 PRIORITY OVERNIGHT

AHS
 15238
 PIT
 PA-US

MPS# 2 of 3
 2852 6025 2546
 Metr 2852 6025 2535
XOAGCA

Uncorrected temp
 Thermometer ID

CF Q3 Initials [Signature]

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



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM	Carrier Tracking No(s)	COC No
Client Contact: Shipping/Receiving		Brown, Shali		180-447522.1
Company: TestAmerica Laboratories, Inc.		E-Mail: Shali.Brown@Eurofins.com	State of Origin: Georgia	Page: Page 1 of 1
Address: 13715 Rider Trail North, Earth City, MO, 63045		Job #: 180-128944-1		
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)		
Email:		Analysis Requested:		
Project #: 18020186		Total Number of Containers		
Site: CCR - Plant Watson Ash Pond		Special Instructions/Note:		
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, A=air)	Field Filtered Sample (Yes or No)
10/20/21	12:10 Eastern		Water	X
10/20/21	10:00 Eastern		Water	X
10/20/21	15:20 Eastern		Water	X
10/21/21	10:38 Eastern		Water	X
10/21/21	15:38 Eastern		Water	X
10/20/21	14:20 Eastern		Water	X
10/21/21	11:38 Eastern		Water	X
Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> 9320_Ra228/PreSep_0 Radium 228 <input checked="" type="checkbox"/> 9315_Ra228/PreSep_21 Radium 226 <input checked="" type="checkbox"/> R226Ra228 GFPC/ Combined Radium 226 and Radium-228 <input checked="" type="checkbox"/>				
Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica				
Possible Hazard Identification				
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				
Empty Kit Relinquished by: _____ Date: _____				
Relinquished by: <i>Mo</i> Date: 10-25-21 17:00				
Relinquished by: FED EX Date/Time: 10/24/21 09:10				
Relinquished by: _____ Date/Time: _____				
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No				
Custody Seal No: _____ Cooler Temperature(s) °C and Other Remarks: _____				



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-128944-1

Login Number: 128944

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

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	



ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-128944-2

Client Project/Site: Plant Watson Ash Pond

For:

Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Robert Singleton



Authorized for release by:
11/29/2021 6:40:11 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.com

LINKS

Review your project
results through
TotalAccess

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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



Table of Contents

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Case Narrative

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128944-2

Job ID: 180-128944-2

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-128944-2

Comments

No additional comments.

Receipt

The samples were received on 10/23/2021 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.0° C.

RAD

Methods 903.0, 9315: Radium-226 prep batch 160-534280:

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. APMW-15 (180-128944-1), APMW-13 (180-128944-2), APMW-6R (180-128944-3), APMW-3 (180-128944-4), APMW-8 (180-128944-5), DUP-04 (180-128944-6), DUP-05 (180-128944-7), (LCS 160-534280/1-A), (LCSD 160-534280/2-A) and (MB 160-534280/22-A)

Methods 904.0, 9320: Radium 228 batch 534283

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. APMW-15 (180-128944-1), APMW-13 (180-128944-2), APMW-6R (180-128944-3), APMW-3 (180-128944-4), APMW-8 (180-128944-5), DUP-04 (180-128944-6), DUP-05 (180-128944-7), (LCS 160-534283/1-A), (LCSD 160-534283/2-A) and (MB 160-534283/22-A)

Method PrecSep_0: Radium-228 Prep Batch 160-534283

The following samples were prepared at a reduced aliquot due to Matrix: APMW-15 (180-128944-1), APMW-13 (180-128944-2), APMW-3 (180-128944-4), APMW-8 (180-128944-5) and DUP-05 (180-128944-7). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep_0: Radium-228 Prep Batch 160-534283

Insufficient sample volume was available to perform a sample duplicate for the following samples: APMW-6R (180-128944-3) and DUP-04 (180-128944-6). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium-226 Prep Batch 160-534280

The following samples were prepared at a reduced aliquot due to Matrix: APMW-15 (180-128944-1), APMW-13 (180-128944-2), APMW-3 (180-128944-4), APMW-8 (180-128944-5) and DUP-05 (180-128944-7). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep-21: Radium-226 Prep Batch 160-534280

Insufficient sample volume was available to perform a sample duplicate for the following samples: APMW-6R (180-128944-3) and DUP-04 (180-128944-6). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

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 Watson Ash Pond

Job ID: 180-128944-2

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 Watson Ash Pond

Job ID: 180-128944-2

Laboratory: Eurofins TestAmerica, 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	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-21
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	06-30-21 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	01-01-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-21
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-21
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	03-01-22
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

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

Sample Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128944-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-128944-1	APMW-15	Water	10/20/21 12:10	10/23/21 10:30
180-128944-2	APMW-13	Water	10/20/21 10:00	10/23/21 10:30
180-128944-3	APMW-6R	Water	10/20/21 15:20	10/23/21 10:30
180-128944-4	APMW-3	Water	10/21/21 10:38	10/23/21 10:30
180-128944-5	APMW-8	Water	10/21/21 15:38	10/23/21 10:30
180-128944-6	DUP-04	Water	10/20/21 14:20	10/23/21 10:30
180-128944-7	DUP-05	Water	10/21/21 11:38	10/23/21 10:30

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Method Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128944-2

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

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

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128944-2

Client Sample ID: APMW-15

Lab Sample ID: 180-128944-1

Date Collected: 10/20/21 12:10

Matrix: Water

Date Received: 10/23/21 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			750.56 mL	1.0 g	534280	10/29/21 12:06	BMP	TAL SL
Total/NA	Analysis	9315		1			538004	11/22/21 09:56	EMH	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.56 mL	1.0 g	534283	10/29/21 12:58	BMP	TAL SL
Total/NA	Analysis	9320		1			537557	11/19/21 12:48	FLC	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			539030	11/28/21 23:36	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-13

Lab Sample ID: 180-128944-2

Date Collected: 10/20/21 10:00

Matrix: Water

Date Received: 10/23/21 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			750.75 mL	1.0 g	534280	10/29/21 12:06	BMP	TAL SL
Total/NA	Analysis	9315		1			538004	11/22/21 09:56	EMH	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.75 mL	1.0 g	534283	10/29/21 12:58	BMP	TAL SL
Total/NA	Analysis	9320		1			537557	11/19/21 12:48	FLC	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			539030	11/28/21 23:36	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-6R

Lab Sample ID: 180-128944-3

Date Collected: 10/20/21 15:20

Matrix: Water

Date Received: 10/23/21 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			1000.76 mL	1.0 g	534280	10/29/21 12:06	BMP	TAL SL
Total/NA	Analysis	9315		1			538004	11/22/21 09:56	EMH	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.76 mL	1.0 g	534283	10/29/21 12:58	BMP	TAL SL
Total/NA	Analysis	9320		1			537557	11/19/21 12:48	FLC	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			539030	11/28/21 23:36	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-3

Lab Sample ID: 180-128944-4

Date Collected: 10/21/21 10:38

Matrix: Water

Date Received: 10/23/21 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			750.59 mL	1.0 g	534280	10/29/21 12:06	BMP	TAL SL
Total/NA	Analysis	9315		1			538004	11/22/21 09:56	EMH	TAL SL
Instrument ID: GFPCBLUE										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128944-2

Client Sample ID: APMW-3

Lab Sample ID: 180-128944-4

Date Collected: 10/21/21 10:38

Matrix: Water

Date Received: 10/23/21 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_0			750.59 mL	1.0 g	534283	10/29/21 12:58	BMP	TAL SL
Total/NA	Analysis	9320		1			537557	11/19/21 12:48	FLC	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			539030	11/28/21 23:36	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-8

Lab Sample ID: 180-128944-5

Date Collected: 10/21/21 15:38

Matrix: Water

Date Received: 10/23/21 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			750.12 mL	1.0 g	534280	10/29/21 12:06	BMP	TAL SL
Total/NA	Analysis	9315		1			538004	11/22/21 09:57	EMH	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.12 mL	1.0 g	534283	10/29/21 12:58	BMP	TAL SL
Total/NA	Analysis	9320		1			537557	11/19/21 12:48	FLC	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			539030	11/28/21 23:36	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-04

Lab Sample ID: 180-128944-6

Date Collected: 10/20/21 14:20

Matrix: Water

Date Received: 10/23/21 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	534280	10/29/21 12:06	BMP	TAL SL
Total/NA	Analysis	9315		1			538004	11/22/21 09:57	EMH	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.54 mL	1.0 g	534283	10/29/21 12:58	BMP	TAL SL
Total/NA	Analysis	9320		1			537519	11/19/21 12:53	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			539030	11/28/21 23:36	MLK	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-05

Lab Sample ID: 180-128944-7

Date Collected: 10/21/21 11:38

Matrix: Water

Date Received: 10/23/21 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			750.59 mL	1.0 g	534280	10/29/21 12:06	BMP	TAL SL
Total/NA	Analysis	9315		1			538004	11/22/21 09:57	EMH	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.59 mL	1.0 g	534283	10/29/21 12:58	BMP	TAL SL
Total/NA	Analysis	9320		1			537519	11/19/21 12:53	FLC	TAL SL
Instrument ID: GFPCRED										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128944-2

Client Sample ID: DUP-05

Lab Sample ID: 180-128944-7

Date Collected: 10/21/21 11:38

Matrix: Water

Date Received: 10/23/21 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			539030	11/28/21 23:36	MLK	TAL SL

Laboratory References:

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

Analyst References:

Lab: TAL SL

Batch Type: Prep

BMP = Bailey Pinette

Batch Type: Analysis

EMH = Elizabeth Hoerchler

FLC = Fernando Cruz

MLK = Micha Korrinhizer

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-128944-2

Client Sample ID: APMW-15

Lab Sample ID: 180-128944-1

Date Collected: 10/20/21 12:10

Matrix: Water

Date Received: 10/23/21 10:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.529		0.221	0.226	1.00	0.249	pCi/L	10/29/21 12:06	11/22/21 09:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.8		40 - 110					10/29/21 12:06	11/22/21 09:56	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.965		0.412	0.421	1.00	0.587	pCi/L	10/29/21 12:58	11/19/21 12:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.8		40 - 110					10/29/21 12:58	11/19/21 12:48	1
Y Carrier	85.2		40 - 110					10/29/21 12:58	11/19/21 12:48	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.49		0.468	0.478	5.00	0.587	pCi/L		11/28/21 23:36	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128944-2

Client Sample ID: APMW-13

Lab Sample ID: 180-128944-2

Date Collected: 10/20/21 10:00

Matrix: Water

Date Received: 10/23/21 10:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.48		0.341	0.367	1.00	0.277	pCi/L	10/29/21 12:06	11/22/21 09:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.0		40 - 110					10/29/21 12:06	11/22/21 09:56	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.32		0.466	0.481	1.00	0.636	pCi/L	10/29/21 12:58	11/19/21 12:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.0		40 - 110					10/29/21 12:58	11/19/21 12:48	1
Y Carrier	84.9		40 - 110					10/29/21 12:58	11/19/21 12:48	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.80		0.577	0.605	5.00	0.636	pCi/L		11/28/21 23:36	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128944-2

Client Sample ID: APMW-6R

Lab Sample ID: 180-128944-3

Date Collected: 10/20/21 15:20

Matrix: Water

Date Received: 10/23/21 10:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.479		0.167	0.172	1.00	0.176	pCi/L	10/29/21 12:06	11/22/21 09:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					10/29/21 12:06	11/22/21 09:56	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.32		0.368	0.426	1.00	0.359	pCi/L	10/29/21 12:58	11/19/21 12:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					10/29/21 12:58	11/19/21 12:48	1
Y Carrier	84.9		40 - 110					10/29/21 12:58	11/19/21 12:48	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.80		0.404	0.459	5.00	0.359	pCi/L		11/28/21 23:36	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-128944-2

Client Sample ID: APMW-3

Lab Sample ID: 180-128944-4

Date Collected: 10/21/21 10:38

Matrix: Water

Date Received: 10/23/21 10:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.691		0.232	0.241	1.00	0.246	pCi/L	10/29/21 12:06	11/22/21 09:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.3		40 - 110					10/29/21 12:06	11/22/21 09:56	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	4.91		0.596	0.748	1.00	0.502	pCi/L	10/29/21 12:58	11/19/21 12:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.3		40 - 110					10/29/21 12:58	11/19/21 12:48	1
Y Carrier	86.4		40 - 110					10/29/21 12:58	11/19/21 12:48	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	5.60		0.640	0.786	5.00	0.502	pCi/L		11/28/21 23:36	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-128944-2

Client Sample ID: APMW-8

Lab Sample ID: 180-128944-5

Date Collected: 10/21/21 15:38

Matrix: Water

Date Received: 10/23/21 10:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.30		0.322	0.343	1.00	0.293	pCi/L	10/29/21 12:06	11/22/21 09:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.0		40 - 110					10/29/21 12:06	11/22/21 09:57	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.75		0.494	0.555	1.00	0.536	pCi/L	10/29/21 12:58	11/19/21 12:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.0		40 - 110					10/29/21 12:58	11/19/21 12:48	1
Y Carrier	88.6		40 - 110					10/29/21 12:58	11/19/21 12:48	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	4.05		0.590	0.652	5.00	0.536	pCi/L		11/28/21 23:36	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128944-2

Client Sample ID: DUP-04

Lab Sample ID: 180-128944-6

Date Collected: 10/20/21 14:20

Matrix: Water

Date Received: 10/23/21 10:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.315		0.154	0.157	1.00	0.196	pCi/L	10/29/21 12:06	11/22/21 09:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					10/29/21 12:06	11/22/21 09:57	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.43		0.377	0.438	1.00	0.368	pCi/L	10/29/21 12:58	11/19/21 12:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					10/29/21 12:58	11/19/21 12:53	1
Y Carrier	86.0		40 - 110					10/29/21 12:58	11/19/21 12:53	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.75		0.407	0.465	5.00	0.368	pCi/L		11/28/21 23:36	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-128944-2

Client Sample ID: DUP-05
 Date Collected: 10/21/21 11:38
 Date Received: 10/23/21 10:30

Lab Sample ID: 180-128944-7
 Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.393		0.188	0.191	1.00	0.229	pCi/L	10/29/21 12:06	11/22/21 09:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					10/29/21 12:06	11/22/21 09:57	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	5.17		0.596	0.763	1.00	0.465	pCi/L	10/29/21 12:58	11/19/21 12:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					10/29/21 12:58	11/19/21 12:53	1
Y Carrier	86.4		40 - 110					10/29/21 12:58	11/19/21 12:53	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	5.56		0.625	0.787	5.00	0.465	pCi/L		11/28/21 23:36	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128944-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-534280/22-A
Matrix: Water
Analysis Batch: 538004

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 534280

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.1466	U	0.190	0.190	1.00	0.316	pCi/L	10/29/21 12:06	11/22/21 09:58	1
Carrier	MB		Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	94.5		40 - 110			10/29/21 12:06	11/22/21 09:58	1		

Lab Sample ID: LCS 160-534280/1-A
Matrix: Water
Analysis Batch: 538004

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 534280

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	15.1	12.42		1.41	1.00	0.259	pCi/L	82	75 - 125
Carrier	LCS		Limits			Prepared	Analyzed	Dil Fac	
	%Yield	Qualifier							
Ba Carrier	96.3		40 - 110						

Lab Sample ID: LCSD 160-534280/2-A
Matrix: Water
Analysis Batch: 538004

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 534280

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	Limit
				Uncert. (2σ+/-)							
Radium-226	15.1	13.23		1.49	1.00	0.277	pCi/L	88	75 - 125	0.28	1
Carrier	LCSD		Limits			Prepared	Analyzed	Dil Fac			
	%Yield	Qualifier									
Ba Carrier	95.8		40 - 110								

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-534283/22-A
Matrix: Water
Analysis Batch: 537519

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 534283

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.2828	U	0.301	0.302	1.00	0.491	pCi/L	10/29/21 12:58	11/19/21 12:54	1
Carrier	MB		Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	94.5		40 - 110			10/29/21 12:58	11/19/21 12:54	1		
Y Carrier	88.2		40 - 110			10/29/21 12:58	11/19/21 12:54	1		

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-128944-2

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

Lab Sample ID: LCS 160-534283/1-A
Matrix: Water
Analysis Batch: 537557

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 534283

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
									75	125
Radium-228	12.2	10.60		1.29	1.00	0.557	pCi/L	87	75	125
LCS LCS										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	96.3		40 - 110							
Y Carrier	85.6		40 - 110							

Lab Sample ID: LCSD 160-534283/2-A
Matrix: Water
Analysis Batch: 537557

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 534283

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		RER	Limit
									75	125	0.06	1
Radium-228	12.2	10.44		1.27	1.00	0.500	pCi/L	86	75	125	0.06	1
LCSD LCSD												
Carrier	%Yield	Qualifier	Limits									
Ba Carrier	95.8		40 - 110									
Y Carrier	86.0		40 - 110									

QC Association Summary

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-128944-2

Rad

Prep Batch: 534280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128944-1	APMW-15	Total/NA	Water	PrecSep-21	
180-128944-2	APMW-13	Total/NA	Water	PrecSep-21	
180-128944-3	APMW-6R	Total/NA	Water	PrecSep-21	
180-128944-4	APMW-3	Total/NA	Water	PrecSep-21	
180-128944-5	APMW-8	Total/NA	Water	PrecSep-21	
180-128944-6	DUP-04	Total/NA	Water	PrecSep-21	
180-128944-7	DUP-05	Total/NA	Water	PrecSep-21	
MB 160-534280/22-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-534280/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-534280/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 534283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-128944-1	APMW-15	Total/NA	Water	PrecSep_0	
180-128944-2	APMW-13	Total/NA	Water	PrecSep_0	
180-128944-3	APMW-6R	Total/NA	Water	PrecSep_0	
180-128944-4	APMW-3	Total/NA	Water	PrecSep_0	
180-128944-5	APMW-8	Total/NA	Water	PrecSep_0	
180-128944-6	DUP-04	Total/NA	Water	PrecSep_0	
180-128944-7	DUP-05	Total/NA	Water	PrecSep_0	
MB 160-534283/22-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-534283/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-534283/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
 Pittsburgh, PA 15238
 Phone (412) 963-7058 Phone (412) 963-2468

Chain of Custody Record



Client Information	Sampler: <i>Rick Hagendorfer / Cotton Evans</i>	Lab PM: Brown, Shali	Carrier Tracking No(s):	COC No: 180-75097-10600.2
Client Contact: Rick Hagendorfer	Phone: 850-336-0192	E-Mail: Shali.Brown@Eurofinset.com	State of Origin:	Page: Page 2 of 2

Company: RDH Environmental Services Inc	PWSID:	Analysis Requested		Job #:
Address: 5720 Dove Drive	Due Date Requested:	Field Filtered Sample (Yes or No) 2540C_Calcd, 300_ORGFM_28D 6020 - Custom 14 (Appil App IV) + Hg 9315_Ra226, 9320_Ra228, Ra228Ra228_GFPC	Total Number of Containers	Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)
City: Pace	TAT Requested (days):			
State, Zip: FL, 32571	Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No			
Phone:	PO #: SCS10382606			
Email: rickhagendorfer@gmail.com	WO #:			
Project Name: Plant Watson Ash Pond	Project #: 18020186			Other:
Site:	SSOW#:			

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)			Total Number of Containers	Special Instructions/Note:
					X	X	X		
					N	D	D		
APMW-15	12-20-21	1210	G	W	X	X	X	4	
APMW-13	12-20-21	1000	G		X	X	X	4	
APMW-6R	12-20-21	1520	G		X	X	X	4	
APMW-3	12-21-21	1038	G		X	X	X	4	
APMW-8	12-21-21	1538	G		X	X	X	4	
DUP-04	12-20-21	1420	G		X	X	X	4	
DUP-05	12-21-21	1138	G	V	X	X	X	4	



Possible Hazard Identification <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) <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)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: <i>[Signature]</i>	Date/Time: 12-22-21 1426	Company: RDH ENV.	Received by: <i>[Signature]</i> Date/Time: 10-23-21 1030
Relinquished by:	Date/Time:	Company:	Received by:
Relinquished by:	Date/Time:	Company:	Received by:

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
--	-------------------	---

1
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13

ORIGIN ID: PMSA (412) 863-7058
TESTAMERICA PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH PA 15238
UNITED STATES US

SHIP DATE: 22OCT21
ACTWT: 67.15
CAD: 6994736/STFE2220
DIMS: 26x15x14 IN
BILL THIRD PARTY

TO
TESTAMERICA PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH PA 15238

(412) 863-7058
REF1
DEPT



MPS# 2852 6025 2557
0263
Mett# 2852 6025 2636

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA

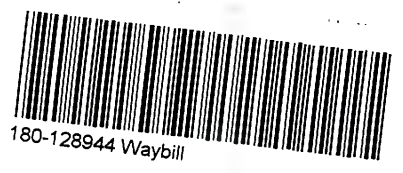
AHS
15238
PIT
PA-US

Uncorrected temp
Thermometer ID

2.0 °C

CF 03 Initials

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



180-128944 Waybill

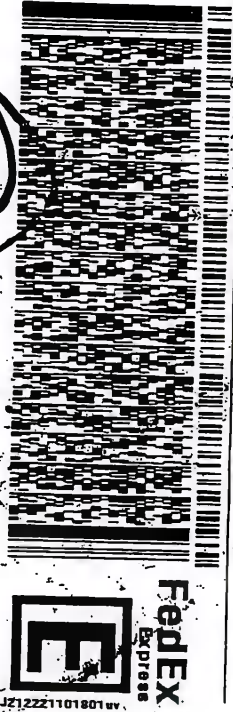
- 1
- 2
- 3
- 4
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- 7
- 8
- 9
- 10
- 11
- 12
- 13

ORIGIN ID: PNSA (412) 963-7058
 TESTAMERICA-PITTSBURGH LAB
 SEE CHEERS 5 BEFORE BILL
 301 ALPHA DR
 PITTSBURGH, PA 15238
 UNITED STATES US

SHIP DATE: 22OCT21
 ACTUAT: 2111E01B
 CSD: 694796/STFE220
 DMS: 24X15X14 IN
 BILL: THIRD PARTY

TESTAMERICA PITTSBURGH LAB
 SEE CHEERS 5 BEFORE BILL
 301 ALPHA DR
 PITTSBURGH PA 15238

Part # 156297433 HUB EXP 08/20



1 of 3
 2852 6025 2835
 MASTER #

SATURDAY 2:00P
 PRIORITY OVERNIGHT
 AHS
 15238
 PIT

XOAGCA

PA-US

Uncorrected temp 3.1 °C
 Thermometer ID 81
 CF 0 Initials [Signature]
 PT-M-SR-001 effective 11/9/18

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

ORIGIN: 10:08NSB
 TESTAMERICA PITTSBURGH LAB
 CHEERS 5 BEFORE BILL
 PITTSBURGH PA 15238
 UNLIMITED STATES US
 (412) 869-7058

SHIP DATE:
 ACTG: 699475
 DUNS: 263475
 BILL THIRD

TESTAMERICA PITTSBURGH LAB
 SEE CHEERS 5 BEFORE BILL
 301 ALPHA DR
 PITTSBURGH PA 15238
 (412) 869-7058



MPS# 2 of 3
 2852 6025 2546
 Metr 2852 6025 2535
XOAGCA

SATURDAY 12:00P
 PRIORITY OVERNIGHT

AHS
 15238
 PIT
 PA-US

Uncorrected temp
 Thermometer ID

CF Initials
 03
 14

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



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-128944-2

Login Number: 128944

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

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: 180-128944-2

Login Number: 128944

List Number: 2

Creator: Johnson, Autumn R

List Source: Eurofins TestAmerica, St. Louis

List Creation: 10/26/21 11:14 AM

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	



2nd
Semi-Annual
Monitoring Event

Low-Flow Test Report:

Test Date / Time: 4/4/2022 11:57:27 AM

Project: Plant Watson CCR

Operator Name: Philip Evans

Location Name: Plant Watson APMW-11 Well Diameter: 2 in Screen Length: 10 ft Top of Screen: 41.6 ft Total Depth: 51.6 ft Initial Depth to Water: 18.1 ft	Pump Type: PP Tubing Type: Pe Pump Intake From TOC: 46.6 ft Estimated Total Volume Pumped: 8000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.02 ft	Instrument Used: Aqua TROLL 400 Serial Number: 817728
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Test Notes:

Sample time @ 1220. Sunny 74. H2S= 0mg/L. Ferrous iron= 2.05mg/L.

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	+/- 10	+/- 0.2	
4/4/2022 11:57 AM	00:00	7.99 pH	23.46 °C	96.52 µS/cm	5.37 mg/L	2.20 NTU	108.9 mV	18.12 ft	400.00 ml/min
4/4/2022 12:02 PM	05:00	6.22 pH	23.05 °C	102.53 µS/cm	1.95 mg/L	1.88 NTU	88.5 mV	18.12 ft	400.00 ml/min
4/4/2022 12:07 PM	10:00	6.01 pH	23.00 °C	107.38 µS/cm	0.38 mg/L	1.64 NTU	80.5 mV	18.12 ft	400.00 ml/min
4/4/2022 12:12 PM	15:00	5.99 pH	22.97 °C	107.23 µS/cm	0.30 mg/L	1.51 NTU	75.0 mV	18.12 ft	400.00 ml/min
4/4/2022 12:17 PM	20:00	5.97 pH	23.02 °C	108.14 µS/cm	0.20 mg/L	1.46 NTU	72.1 mV	18.12 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-11	Sample time @ 1220. Sunny 74. H2S= 0mg/L. Ferrous iron= 2.05mg/L.

Low-Flow Test Report:

Test Date / Time: 4/4/2022 1:20:09 PM

Project: Plant Watson CCR

Operator Name: Philip Evans

Location Name: Plant Watson APMW-12 Well Diameter: 2 in Screen Length: 10 ft Top of Screen: 44.1 ft Total Depth: 54.1 ft Initial Depth to Water: 15.78 ft	Pump Type: PP Tubing Type: Pe Pump Intake From TOC: 49.1 ft Estimated Total Volume Pumped: 6000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.04 ft	Instrument Used: Aqua TROLL 400 Serial Number: 817728
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Test Notes:

Sample time @ 1340. Sunny 76. H2S= 0mg/L. Ferrous iron @ 3.25mg/L.

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	+/- 10	+/- 0.2	
4/4/2022 1:20 PM	00:00	7.10 pH	25.07 °C	158.70 µS/cm	1.06 mg/L	1.98 NTU	94.6 mV	15.82 ft	400.00 ml/min
4/4/2022 1:25 PM	05:00	6.14 pH	22.79 °C	158.43 µS/cm	0.32 mg/L	1.90 NTU	78.9 mV	15.82 ft	400.00 ml/min
4/4/2022 1:30 PM	10:00	6.03 pH	22.71 °C	158.46 µS/cm	0.23 mg/L	1.84 NTU	73.6 mV	15.82 ft	400.00 ml/min
4/4/2022 1:35 PM	15:00	6.00 pH	22.71 °C	156.81 µS/cm	0.19 mg/L	1.77 NTU	70.4 mV	15.82 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-12	Sample time @ 1340. Sunny 76. H2S= 0mg/L. Ferrous iron @ 3.25mg/L.

Low-Flow Test Report:

Test Date / Time: 4/4/2022 3:14:12 PM

Project: Plant Watson CCR

Operator Name: Philip Evans

Location Name: Plant Watson APMW-1R Well Diameter: 2 in Screen Length: 10 ft Top of Screen: 28.6 ft Total Depth: 38.6 ft Initial Depth to Water: 23.67 ft	Pump Type: PP Tubing Type: Pe Pump Intake From TOC: 36.1 ft Estimated Total Volume Pumped: 54000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.68 ft	Instrument Used: Aqua TROLL 400 Serial Number: 817728
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Test Notes:

Sample time @ 1730. Sunny 72. DUP-01 @ fake time 1630. H2S= 1.749mg/L. Ferrous iron= 7.0mg/L.

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	+/- 10	+/- 0.2	
4/4/2022 3:14 PM	00:00	5.76 pH	23.34 °C	5,906.9 µS/cm	0.36 mg/L	4.20 NTU	121.4 mV	24.24 ft	400.00 ml/min
4/4/2022 3:19 PM	05:00	5.74 pH	22.84 °C	6,051.8 µS/cm	0.26 mg/L	2.62 NTU	88.4 mV	24.24 ft	400.00 ml/min
4/4/2022 3:24 PM	10:00	5.69 pH	23.00 °C	6,880.9 µS/cm	0.20 mg/L	1.10 NTU	55.3 mV	24.24 ft	400.00 ml/min
4/4/2022 3:29 PM	15:00	5.98 pH	23.06 °C	7,929.5 µS/cm	0.19 mg/L	0.96 NTU	39.9 mV	24.24 ft	400.00 ml/min
4/4/2022 3:34 PM	20:00	6.09 pH	23.02 °C	7,958.0 µS/cm	0.17 mg/L	0.98 NTU	15.3 mV	24.25 ft	400.00 ml/min
4/4/2022 3:39 PM	25:00	6.13 pH	23.04 °C	7,941.9 µS/cm	0.16 mg/L	0.91 NTU	-13.6 mV	24.25 ft	400.00 ml/min
4/4/2022 3:44 PM	30:00	6.15 pH	23.06 °C	7,995.0 µS/cm	0.15 mg/L	0.94 NTU	-42.3 mV	24.25 ft	400.00 ml/min
4/4/2022 3:49 PM	35:00	6.18 pH	23.10 °C	7,947.3 µS/cm	0.15 mg/L	0.95 NTU	-72.1 mV	24.26 ft	400.00 ml/min
4/4/2022 3:54 PM	40:00	6.20 pH	23.02 °C	7,956.2 µS/cm	0.15 mg/L	0.96 NTU	-103.9 mV	24.26 ft	400.00 ml/min
4/4/2022 3:59 PM	45:00	6.23 pH	22.98 °C	7,978.6 µS/cm	0.14 mg/L	0.99 NTU	-149.7 mV	24.28 ft	400.00 ml/min
4/4/2022 4:04 PM	50:00	6.25 pH	22.96 °C	7,950.0 µS/cm	0.14 mg/L	0.97 NTU	-208.2 mV	24.28 ft	400.00 ml/min
4/4/2022 4:09 PM	55:00	6.28 pH	23.07 °C	7,943.0 µS/cm	0.14 mg/L	0.95 NTU	-238.9 mV	24.28 ft	400.00 ml/min
4/4/2022 4:14 PM	01:00:00	6.31 pH	22.93 °C	7,959.2 µS/cm	0.14 mg/L	0.94 NTU	-256.9 mV	24.28 ft	400.00 ml/min
4/4/2022 4:19 PM	01:05:00	6.35 pH	23.02 °C	7,945.8 µS/cm	0.13 mg/L	0.95 NTU	-269.1 mV	24.30 ft	400.00 ml/min
4/4/2022 4:24 PM	01:10:00	6.40 pH	22.93 °C	7,965.6 µS/cm	0.12 mg/L	0.97 NTU	-274.7 mV	24.30 ft	400.00 ml/min

4/4/2022 4:29 PM	01:15:00	6.46 pH	22.98 °C	7,977.8 µS/cm	0.12 mg/L	1.12 NTU	-281.2 mV	24.30 ft	400.00 ml/min
4/4/2022 4:34 PM	01:20:00	6.54 pH	23.00 °C	7,961.1 µS/cm	0.11 mg/L	1.21 NTU	-286.7 mV	24.32 ft	400.00 ml/min
4/4/2022 4:39 PM	01:25:00	6.60 pH	22.95 °C	7,996.1 µS/cm	0.11 mg/L	1.33 NTU	-296.1 mV	24.32 ft	400.00 ml/min
4/4/2022 4:44 PM	01:30:00	6.62 pH	22.97 °C	8,003.8 µS/cm	0.11 mg/L	1.45 NTU	-309.8 mV	24.32 ft	400.00 ml/min
4/4/2022 4:49 PM	01:35:00	6.60 pH	22.97 °C	7,998.7 µS/cm	0.11 mg/L	1.69 NTU	-323.2 mV	24.32 ft	400.00 ml/min
4/4/2022 4:54 PM	01:40:00	6.58 pH	22.93 °C	7,986.7 µS/cm	0.10 mg/L	1.65 NTU	-337.1 mV	24.33 ft	400.00 ml/min
4/4/2022 4:59 PM	01:45:00	6.56 pH	22.94 °C	8,024.3 µS/cm	0.10 mg/L	1.56 NTU	-348.8 mV	24.34 ft	400.00 ml/min
4/4/2022 5:04 PM	01:50:00	6.52 pH	22.98 °C	7,999.8 µS/cm	0.10 mg/L	1.54 NTU	-360.6 mV	24.34 ft	400.00 ml/min
4/4/2022 5:09 PM	01:55:00	6.48 pH	22.97 °C	8,040.7 µS/cm	0.10 mg/L	1.46 NTU	-367.4 mV	24.34 ft	400.00 ml/min
4/4/2022 5:14 PM	02:00:00	6.44 pH	22.95 °C	8,066.2 µS/cm	0.09 mg/L	1.45 NTU	-376.3 mV	24.35 ft	400.00 ml/min
4/4/2022 5:19 PM	02:05:00	6.40 pH	23.02 °C	8,062.8 µS/cm	0.09 mg/L	1.49 NTU	-383.6 mV	24.35 ft	400.00 ml/min
4/4/2022 5:24 PM	02:10:00	6.36 pH	22.93 °C	8,062.7 µS/cm	0.09 mg/L	1.50 NTU	-390.6 mV	24.35 ft	400.00 ml/min
4/4/2022 5:29 PM	02:15:00	6.34 pH	22.98 °C	8,070.3 µS/cm	0.09 mg/L	1.52 NTU	-395.5 mV	24.35 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-1R	Sample time @ 1730. Sunny 72. DUP-01 @ fake time 1630. H2S= 1.749mg/L. Ferrous iron= 7.0mg/L.

Low-Flow Test Report:

Test Date / Time: 4/5/2022 7:20:27 AM

Project: Plant Watson CCR

Operator Name: Philip Evans

Location Name: Plant Watson APMW-2D Well Diameter: 2 in Screen Length: 10 ft Top of Screen: 152.8 ft Total Depth: 162.8 ft Initial Depth to Water: 14.57 ft	Pump Type: PP Tubing Type: Pe Pump Intake From TOC: 157.8 ft Estimated Total Volume Pumped: 54000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.15 ft	Instrument Used: Aqua TROLL 400 Serial Number: 817728
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Test Notes:

Sample time @ 0938. Cloudy 75. H2S= .265mg/L.Ferrous iron=0.22mg/L.

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	+/- 0.2	
4/5/2022 7:20 AM	00:00	5.41 pH	23.01 °C	190.82 µS/cm	1.51 mg/L	13.60 NTU	119.8 mV	14.72 ft	400.00 ml/min
4/5/2022 7:25 AM	05:00	6.11 pH	22.30 °C	190.35 µS/cm	0.38 mg/L	11.10 NTU	85.0 mV	14.72 ft	400.00 ml/min
4/5/2022 7:30 AM	10:00	6.38 pH	22.26 °C	189.84 µS/cm	0.28 mg/L	8.90 NTU	76.4 mV	14.72 ft	400.00 ml/min
4/5/2022 7:35 AM	15:00	6.58 pH	22.25 °C	189.20 µS/cm	0.26 mg/L	7.47 NTU	69.2 mV	14.72 ft	400.00 ml/min
4/5/2022 7:40 AM	20:00	6.71 pH	22.25 °C	188.34 µS/cm	0.23 mg/L	6.30 NTU	63.4 mV	14.72 ft	400.00 ml/min
4/5/2022 7:45 AM	25:00	6.78 pH	22.26 °C	187.12 µS/cm	0.21 mg/L	6.05 NTU	58.7 mV	14.72 ft	400.00 ml/min
4/5/2022 7:50 AM	30:00	6.84 pH	22.25 °C	186.39 µS/cm	0.19 mg/L	5.88 NTU	54.3 mV	14.72 ft	400.00 ml/min
4/5/2022 7:55 AM	35:00	6.90 pH	22.26 °C	186.00 µS/cm	0.19 mg/L	5.57 NTU	50.0 mV	14.72 ft	400.00 ml/min
4/5/2022 8:00 AM	40:00	6.95 pH	22.25 °C	185.76 µS/cm	0.18 mg/L	5.25 NTU	45.9 mV	14.72 ft	400.00 ml/min
4/5/2022 8:05 AM	45:00	7.00 pH	22.24 °C	185.56 µS/cm	0.18 mg/L	4.96 NTU	41.2 mV	14.72 ft	400.00 ml/min
4/5/2022 8:10 AM	50:00	7.03 pH	22.24 °C	185.00 µS/cm	0.17 mg/L	4.83 NTU	37.7 mV	14.72 ft	400.00 ml/min
4/5/2022 8:15 AM	55:00	7.05 pH	22.24 °C	184.69 µS/cm	0.18 mg/L	4.76 NTU	34.2 mV	14.72 ft	400.00 ml/min
4/5/2022 8:20 AM	01:00:00	7.07 pH	22.23 °C	183.85 µS/cm	0.17 mg/L	4.52 NTU	30.9 mV	14.72 ft	400.00 ml/min
4/5/2022 8:25 AM	01:05:00	7.11 pH	22.24 °C	183.89 µS/cm	0.16 mg/L	4.18 NTU	25.9 mV	14.72 ft	400.00 ml/min
4/5/2022 8:30 AM	01:10:00	7.11 pH	22.26 °C	183.35 µS/cm	0.17 mg/L	3.74 NTU	22.7 mV	14.72 ft	400.00 ml/min

4/5/2022 8:35 AM	01:15:00	7.13 pH	22.26 °C	183.82 µS/cm	0.16 mg/L	3.55 NTU	18.4 mV	14.72 ft	400.00 ml/min
4/5/2022 8:40 AM	01:20:00	7.13 pH	22.27 °C	183.35 µS/cm	0.15 mg/L	3.51 NTU	15.2 mV	14.72 ft	400.00 ml/min
4/5/2022 8:45 AM	01:25:00	7.12 pH	22.29 °C	183.27 µS/cm	0.15 mg/L	3.43 NTU	12.7 mV	14.72 ft	400.00 ml/min
4/5/2022 8:50 AM	01:30:00	7.13 pH	22.31 °C	182.51 µS/cm	0.16 mg/L	3.38 NTU	8.2 mV	14.72 ft	400.00 ml/min
4/5/2022 8:55 AM	01:35:00	7.17 pH	22.30 °C	183.00 µS/cm	0.16 mg/L	3.03 NTU	2.2 mV	14.72 ft	400.00 ml/min
4/5/2022 9:00 AM	01:40:00	7.20 pH	22.35 °C	182.96 µS/cm	0.15 mg/L	2.75 NTU	-2.6 mV	14.72 ft	400.00 ml/min
4/5/2022 9:05 AM	01:45:00	7.17 pH	22.35 °C	182.57 µS/cm	0.15 mg/L	2.48 NTU	-5.7 mV	14.72 ft	400.00 ml/min
4/5/2022 9:10 AM	01:50:00	7.19 pH	22.35 °C	182.60 µS/cm	0.15 mg/L	2.25 NTU	-10.3 mV	14.72 ft	400.00 ml/min
4/5/2022 9:15 AM	01:55:00	7.19 pH	22.36 °C	182.04 µS/cm	0.14 mg/L	2.04 NTU	-14.2 mV	14.72 ft	400.00 ml/min
4/5/2022 9:20 AM	02:00:00	7.19 pH	22.34 °C	181.67 µS/cm	0.15 mg/L	1.93 NTU	-17.9 mV	14.72 ft	400.00 ml/min
4/5/2022 9:25 AM	02:05:00	7.20 pH	22.32 °C	181.74 µS/cm	0.14 mg/L	1.90 NTU	-21.5 mV	14.72 ft	400.00 ml/min
4/5/2022 9:30 AM	02:10:00	7.21 pH	22.35 °C	181.33 µS/cm	0.14 mg/L	1.86 NTU	-26.1 mV	14.72 ft	400.00 ml/min
4/5/2022 9:35 AM	02:15:00	7.20 pH	22.35 °C	180.90 µS/cm	0.14 mg/L	1.84 NTU	-28.3 mV	14.72 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-2D	Sample time @ 0938. Cloudy 75. H2S= .265mg/L.Ferrous iron=0.22mg/L.

Low-Flow Test Report:

Test Date / Time: 4/5/2022 9:41:51 AM

Project: Plant Watson

Operator Name: Rick Hagendorfer

Location Name: APMW-10 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 22.9 ft Total Depth: 32.9 ft Initial Depth to Water: 19.46 ft	Pump Type: QED Tubing Type: PE Pump Intake From TOC: 27.9 ft Estimated Total Volume Pumped: 28000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.02 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Weather Conditions:

Cloudy and windy

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	
4/5/2022 9:41 AM	00:00	6.74 pH	23.29 °C	2,833.3 µS/cm	0.31 mg/L	7.23 NTU	52.9 mV	19.46 ft	400.00 ml/min
4/5/2022 9:46 AM	05:00	6.81 pH	22.95 °C	2,849.9 µS/cm	0.21 mg/L	5.64 NTU	32.5 mV	19.48 ft	400.00 ml/min
4/5/2022 9:51 AM	10:00	6.86 pH	22.86 °C	2,869.5 µS/cm	0.19 mg/L	5.05 NTU	5.4 mV	19.48 ft	400.00 ml/min
4/5/2022 9:56 AM	15:00	6.93 pH	22.71 °C	2,912.0 µS/cm	0.17 mg/L	6.32 NTU	-31.2 mV	19.48 ft	400.00 ml/min
4/5/2022 10:01 AM	20:00	6.97 pH	22.76 °C	2,998.6 µS/cm	0.16 mg/L	6.85 NTU	-55.9 mV	19.48 ft	400.00 ml/min
4/5/2022 10:06 AM	25:00	7.02 pH	22.85 °C	3,075.9 µS/cm	0.14 mg/L	5.94 NTU	-72.8 mV	19.48 ft	400.00 ml/min
4/5/2022 10:11 AM	30:00	7.06 pH	22.89 °C	3,121.1 µS/cm	0.13 mg/L	5.05 NTU	-85.0 mV	19.48 ft	400.00 ml/min
4/5/2022 10:16 AM	35:00	7.10 pH	22.91 °C	3,150.3 µS/cm	0.13 mg/L	3.78 NTU	-93.8 mV	19.48 ft	400.00 ml/min
4/5/2022 10:21 AM	40:00	7.12 pH	23.08 °C	3,143.8 µS/cm	0.16 mg/L	3.47 NTU	-100.6 mV	19.48 ft	400.00 ml/min
4/5/2022 10:26 AM	45:00	7.14 pH	23.42 °C	3,183.4 µS/cm	0.17 mg/L	3.41 NTU	-105.9 mV	19.48 ft	400.00 ml/min
4/5/2022 10:31 AM	50:00	7.15 pH	23.34 °C	3,182.0 µS/cm	0.18 mg/L	3.26 NTU	-109.4 mV	19.48 ft	400.00 ml/min
4/5/2022 10:36 AM	55:00	7.16 pH	23.08 °C	3,181.6 µS/cm	0.19 mg/L	3.24 NTU	-112.0 mV	19.48 ft	400.00 ml/min
4/5/2022 10:41 AM	01:00:00	7.17 pH	23.05 °C	3,191.6 µS/cm	0.18 mg/L	3.03 NTU	-115.2 mV	19.48 ft	400.00 ml/min

4/5/2022 10:46 AM	01:05:00	7.18 pH	22.98 °C	3,187.1 μS/cm	0.18 mg/L	2.59 NTU	-117.5 mV	19.48 ft	400.00 ml/min
4/5/2022 10:51 AM	01:10:00	7.17 pH	23.06 °C	3,198.6 μS/cm	0.18 mg/L	2.49 NTU	-119.9 mV	19.48 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-10	Sample time 1054. Ferrous Fe 3.0mg/l H2S 0.0mg/l

Low-Flow Test Report:

Test Date / Time: 4/5/2022 10:24:09 AM

Project: Plant Watson CCR

Operator Name: Philip Evans

Location Name: Plant Watson APMW-2 Well Diameter: 2 in Screen Length: 10 ft Top of Screen: 32.9 ft Total Depth: 42.9 ft Initial Depth to Water: 20.74 ft	Pump Type: QED Tubing Type: Pe Pump Intake From TOC: 37.9 ft Estimated Total Volume Pumped: 6000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.04 ft	Instrument Used: Aqua TROLL 400 Serial Number: 817728
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Test Notes:

Sample time @ 1045. Cloudy 75. DUP-02@ fake time 0945. H2S= 0mg/L. Ferrous iron= 7 mg/L.

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	+/- 0.2	
4/5/2022 10:24 AM	00:00	5.94 pH	23.61 °C	6,924.8 µS/cm	4.15 mg/L	0.90 NTU	69.8 mV	20.78 ft	400.00 ml/min
4/5/2022 10:29 AM	05:00	5.48 pH	22.57 °C	7,140.5 µS/cm	0.34 mg/L	0.87 NTU	55.7 mV	20.78 ft	400.00 ml/min
4/5/2022 10:34 AM	10:00	5.45 pH	22.62 °C	7,168.9 µS/cm	0.25 mg/L	0.73 NTU	45.0 mV	20.78 ft	400.00 ml/min
4/5/2022 10:39 AM	15:00	5.46 pH	22.64 °C	7,183.0 µS/cm	0.22 mg/L	0.68 NTU	37.0 mV	20.78 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-2	Sample time @ 1045. Cloudy 75. DUP-02@ fake time 0945. H2S= 0mg/L. Ferrous iron= 7 mg/L.

Low-Flow Test Report:

Test Date / Time: 4/5/2022 11:49:52 AM

Project: Plant Watson CCR

Operator Name: Philip Evans

Location Name: Plant Watson APMW-3 Well Diameter: 2 in Screen Length: 10 ft Top of Screen: 26.6 ft Total Depth: 36.6 ft Initial Depth to Water: 6.57 ft	Pump Type: PP Tubing Type: Pe Pump Intake From TOC: 31.6 ft Estimated Total Volume Pumped: 6000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.43 ft	Instrument Used: Aqua TROLL 400 Serial Number: 817728
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Test Notes:

Sample time @ 1208. 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	+/- 0.2	
4/5/2022 11:49 AM	00:00	6.47 pH	22.62 °C	25,826 µS/cm	1.26 mg/L	0.95 NTU	102.4 mV	7.00 ft	400.00 ml/min
4/5/2022 11:54 AM	05:00	6.47 pH	21.81 °C	25,208 µS/cm	0.20 mg/L	0.62 NTU	94.5 mV	7.00 ft	400.00 ml/min
4/5/2022 11:59 AM	10:00	6.46 pH	21.67 °C	25,103 µS/cm	0.16 mg/L	0.43 NTU	85.2 mV	7.00 ft	400.00 ml/min
4/5/2022 12:04 PM	15:00	6.45 pH	21.64 °C	24,954 µS/cm	0.14 mg/L	0.40 NTU	76.8 mV	7.00 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-3	Sample time @ 1208. Cloudy 75.

Low-Flow Test Report:

Test Date / Time: 4/5/2022 12:35:25 PM

Project: Plant Watson CCR

Operator Name: Philip Evans

Location Name: Plant Watson APMW-3D Well Diameter: 2 in Screen Length: 5 ft Top of Screen: 88.1 ft Total Depth: 93.1 ft Initial Depth to Water: 7.2 ft	Pump Type: PP Tubing Type: Pe Pump Intake From TOC: 90.6 ft Estimated Total Volume Pumped: 10000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 2.04 ft	Instrument Used: Aqua TROLL 400 Serial Number: 817728
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Test Notes:

Sample time @ 1305. 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	+/- 0.2	
4/5/2022 12:35 PM	00:00	7.87 pH	21.32 °C	250.09 µS/cm	0.28 mg/L	1.20 NTU	-44.7 mV	9.24 ft	400.00 ml/min
4/5/2022 12:40 PM	05:00	7.52 pH	21.32 °C	245.51 µS/cm	0.21 mg/L	1.08 NTU	-42.4 mV	9.24 ft	400.00 ml/min
4/5/2022 12:45 PM	10:00	7.30 pH	21.37 °C	243.83 µS/cm	0.18 mg/L	1.05 NTU	-42.5 mV	9.24 ft	400.00 ml/min
4/5/2022 12:50 PM	15:00	7.18 pH	21.41 °C	223.89 µS/cm	0.16 mg/L	1.04 NTU	-44.9 mV	9.24 ft	400.00 ml/min
4/5/2022 12:55 PM	20:00	7.09 pH	21.37 °C	221.95 µS/cm	0.15 mg/L	1.02 NTU	-46.0 mV	9.24 ft	400.00 ml/min
4/5/2022 1:00 PM	25:00	7.01 pH	21.37 °C	220.78 µS/cm	0.15 mg/L	0.98 NTU	-47.2 mV	9.24 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-3D	Sample time @ 1305. Cloudy 75.

Low-Flow Test Report:

Test Date / Time: 4/5/2022 1:53:43 PM

Project: Plant Watson CCR

Operator Name: Philip Evans

<p>Location Name: Plant Watson APMW-4D Well Diameter: 2 in Screen Length: 10 ft Top of Screen: 90.3 ft Total Depth: 100.3 ft Initial Depth to Water: 10.35 ft</p>	<p>Pump Type: PP Tubing Type: Pe Pump Intake From TOC: 95.3 ft Estimated Total Volume Pumped: 20000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.17 ft</p>	<p>Instrument Used: Aqua TROLL 400 Serial Number: 817728</p>
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Test Notes:

Sample time @ 1450. Pc 75. H2S= 0mg/L. Ferrous iron @ 7mg/L. FB-01@ 1455.

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	+/- 0.2	
4/5/2022 1:53 PM	00:00	4.91 pH	21.93 °C	21,842 µS/cm	1.65 mg/L	1.11 NTU	133.9 mV	10.52 ft	400.00 ml/min
4/5/2022 1:58 PM	05:00	5.79 pH	21.32 °C	22,115 µS/cm	0.30 mg/L	1.02 NTU	111.3 mV	10.52 ft	400.00 ml/min
4/5/2022 2:03 PM	10:00	6.09 pH	21.27 °C	22,126 µS/cm	0.21 mg/L	0.94 NTU	93.5 mV	10.52 ft	400.00 ml/min
4/5/2022 2:08 PM	15:00	6.25 pH	21.25 °C	22,163 µS/cm	0.19 mg/L	0.85 NTU	73.6 mV	10.52 ft	400.00 ml/min
4/5/2022 2:13 PM	20:00	6.35 pH	21.31 °C	22,152 µS/cm	0.17 mg/L	0.78 NTU	55.2 mV	10.52 ft	400.00 ml/min
4/5/2022 2:18 PM	25:00	6.42 pH	21.28 °C	22,156 µS/cm	0.17 mg/L	0.71 NTU	39.2 mV	10.52 ft	400.00 ml/min
4/5/2022 2:23 PM	30:00	6.47 pH	21.37 °C	22,177 µS/cm	0.16 mg/L	0.69 NTU	25.3 mV	10.52 ft	400.00 ml/min
4/5/2022 2:28 PM	35:00	6.51 pH	21.37 °C	22,205 µS/cm	0.15 mg/L	0.61 NTU	13.1 mV	10.52 ft	400.00 ml/min
4/5/2022 2:33 PM	40:00	6.54 pH	21.50 °C	22,277 µS/cm	0.14 mg/L	0.58 NTU	2.3 mV	10.52 ft	400.00 ml/min
4/5/2022 2:38 PM	45:00	6.56 pH	21.54 °C	22,308 µS/cm	0.15 mg/L	0.54 NTU	-7.3 mV	10.52 ft	400.00 ml/min
4/5/2022 2:43 PM	50:00	6.58 pH	21.56 °C	22,292 µS/cm	0.15 mg/L	0.47 NTU	-15.8 mV	10.52 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-4D	Sample time @ 1450. Pc 75. H2S= 0mg/L. Ferrous iron @ 7mg/L. FB-01@ 1455.

Low-Flow Test Report:

Test Date / Time: 4/5/2022 3:06:42 PM

Project: Plant Watson

Operator Name: Rick Hagendorfer

Location Name: APMW-10D Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 201.4 ft Total Depth: 206.4 ft Initial Depth to Water: 13.94 ft	Pump Type: QED Tubing Type: PE Pump Intake From TOC: 203.9 m Estimated Total Volume Pumped: 24000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.75 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Ferrous Fe= 0.0mg/L H2s= 0.27mg/L sample time 1613. EB-01 sample time 1628.

Weather Conditions:

Cloudy 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	
4/5/2022 3:06 PM	00:00	9.05 pH	23.54 °C	243.68 µS/cm	0.27 mg/L		-35.1 mV	13.94 ft	400.00 ml/min
4/5/2022 3:11 PM	05:00	9.06 pH	23.54 °C	241.25 µS/cm	0.24 mg/L	43.20 NTU	-43.1 mV	14.64 ft	400.00 ml/min
4/5/2022 3:16 PM	10:00	9.07 pH	23.52 °C	238.79 µS/cm	0.22 mg/L	22.20 NTU	-48.7 mV	14.66 ft	400.00 ml/min
4/5/2022 3:21 PM	15:00	9.07 pH	23.42 °C	238.45 µS/cm	0.21 mg/L	12.40 NTU	-53.8 mV	14.67 ft	400.00 ml/min
4/5/2022 3:26 PM	20:00	9.07 pH	23.40 °C	237.35 µS/cm	0.20 mg/L	10.50 NTU	-57.7 mV	14.67 ft	400.00 ml/min
4/5/2022 3:31 PM	25:00	9.06 pH	23.38 °C	237.99 µS/cm	0.19 mg/L	9.03 NTU	-61.8 mV	14.67 ft	400.00 ml/min
4/5/2022 3:36 PM	30:00	9.05 pH	23.43 °C	237.42 µS/cm	0.18 mg/L	7.21 NTU	-65.1 mV	14.67 ft	400.00 ml/min
4/5/2022 3:41 PM	35:00	9.05 pH	23.48 °C	237.25 µS/cm	0.18 mg/L	6.28 NTU	-66.9 mV	14.67 ft	400.00 ml/min
4/5/2022 3:46 PM	40:00	9.05 pH	23.43 °C	236.83 µS/cm	0.17 mg/L	5.42 NTU	-69.6 mV	14.68 ft	400.00 ml/min
4/5/2022 3:51 PM	45:00	9.05 pH	23.35 °C	236.53 µS/cm	0.17 mg/L	4.66 NTU	-72.9 mV	14.69 ft	400.00 ml/min
4/5/2022 3:56 PM	50:00	9.05 pH	23.34 °C	236.46 µS/cm	0.16 mg/L	4.31 NTU	-76.1 mV	14.69 ft	400.00 ml/min
4/5/2022 4:01 PM	55:00	9.05 pH	23.38 °C	236.07 µS/cm	0.16 mg/L	3.87 NTU	-77.7 mV	14.69 ft	400.00 ml/min
4/5/2022 4:06 PM	01:00:00	9.04 pH	23.40 °C	236.06 µS/cm	0.15 mg/L	3.75 NTU	-79.0 mV	14.69 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-10D	

Low-Flow Test Report:

Test Date / Time: 4/6/2022 7:49:21 AM

Project: Plant Watson CCR

Operator Name: Philip Evans

Location Name: Plant Watson APMW-4 Well Diameter: 2 in Screen Length: 10 ft Top of Screen: 27.05 ft Total Depth: 37.05 ft Initial Depth to Water: 12.4 ft	Pump Type: QED Tubing Type: Pe Pump Intake From TOC: 32.05 ft Estimated Total Volume Pumped: 28000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.08 ft	Instrument Used: Aqua TROLL 400 Serial Number: 817728
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Test Notes:

Sample time @ 0902. Sunny 72. H2S= 1.908mg/L. Ferrous iron= 7mg/L.

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	+/- 0.2	
4/6/2022 7:49 AM	00:00	6.35 pH	21.99 °C	8,854.1 µS/cm	2.81 mg/L	2.60 NTU	143.5 mV	12.48 ft	400.00 ml/min
4/6/2022 7:54 AM	05:00	6.04 pH	21.60 °C	8,602.3 µS/cm	2.09 mg/L	2.24 NTU	86.5 mV	12.48 ft	400.00 ml/min
4/6/2022 7:59 AM	10:00	5.95 pH	21.59 °C	8,477.9 µS/cm	1.86 mg/L	2.10 NTU	32.8 mV	12.48 ft	400.00 ml/min
4/6/2022 8:04 AM	15:00	5.96 pH	21.59 °C	8,656.0 µS/cm	1.82 mg/L	1.43 NTU	-59.8 mV	12.48 ft	400.00 ml/min
4/6/2022 8:09 AM	20:00	5.98 pH	21.58 °C	8,634.4 µS/cm	1.79 mg/L	1.19 NTU	-136.3 mV	12.48 ft	400.00 ml/min
4/6/2022 8:14 AM	25:00	6.01 pH	21.63 °C	8,656.0 µS/cm	1.67 mg/L	1.22 NTU	-184.9 mV	12.48 ft	400.00 ml/min
4/6/2022 8:19 AM	30:00	6.03 pH	21.63 °C	8,852.8 µS/cm	1.57 mg/L	1.36 NTU	-219.6 mV	12.48 ft	400.00 ml/min
4/6/2022 8:24 AM	35:00	6.05 pH	21.60 °C	8,647.3 µS/cm	1.43 mg/L	1.55 NTU	-238.6 mV	12.48 ft	400.00 ml/min
4/6/2022 8:29 AM	40:00	6.08 pH	21.63 °C	8,258.8 µS/cm	1.51 mg/L	1.68 NTU	-243.0 mV	12.48 ft	400.00 ml/min
4/6/2022 8:34 AM	45:00	6.12 pH	21.63 °C	8,648.9 µS/cm	1.91 mg/L	1.73 NTU	-243.5 mV	12.48 ft	400.00 ml/min
4/6/2022 8:39 AM	50:00	6.16 pH	21.66 °C	8,496.1 µS/cm	1.71 mg/L	1.75 NTU	-248.1 mV	12.48 ft	400.00 ml/min
4/6/2022 8:44 AM	55:00	6.22 pH	21.68 °C	8,647.1 µS/cm	1.77 mg/L	1.72 NTU	-248.2 mV	12.48 ft	400.00 ml/min
4/6/2022 8:49 AM	01:00:00	6.27 pH	21.77 °C	8,658.6 µS/cm	1.98 mg/L	1.74 NTU	-248.6 mV	12.48 ft	400.00 ml/min
4/6/2022 8:54 AM	01:05:00	6.32 pH	21.81 °C	8,667.5 µS/cm	1.83 mg/L	1.70 NTU	-247.2 mV	12.48 ft	400.00 ml/min
4/6/2022 8:59 AM	01:10:00	6.37 pH	21.82 °C	8,725.4 µS/cm	1.78 mg/L	1.71 NTU	-246.6 mV	12.48 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-4	Sample time @ 0902. Sunny 72. H2S= 1.908mg/L. Ferrous iron= 7mg/L.

Low-Flow Test Report:

Test Date / Time: 4/6/2022 8:08:32 AM

Project: Plant Watson

Operator Name: Rick Hagendorfer

Location Name: APMW-9 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 32.5 ft Total Depth: 42.5 ft Initial Depth to Water: 21.52 ft	Pump Type: QED Tubing Type: PE Pump Intake From TOC: 37.5 ft Estimated Total Volume Pumped: 8000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.09 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Sample time 0831. Ferrous Fe = 2.12mg/L. H2s= 0.0mg/L

Weather Conditions:

Cloudy 73.

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	
4/6/2022 8:08 AM	00:00	5.54 pH	22.44 °C	9,323.1 µS/cm	7.84 mg/L		153.5 mV	21.52 ft	400.00 ml/min
4/6/2022 8:13 AM	05:00	5.95 pH	22.35 °C	9,594.9 µS/cm	0.26 mg/L	3.57 NTU	93.0 mV	21.63 ft	400.00 ml/min
4/6/2022 8:18 AM	10:00	6.07 pH	22.38 °C	9,635.6 µS/cm	0.21 mg/L	1.12 NTU	79.6 mV	21.61 ft	400.00 ml/min
4/6/2022 8:23 AM	15:00	6.11 pH	22.40 °C	9,616.4 µS/cm	0.20 mg/L	0.73 NTU	73.0 mV	21.61 ft	400.00 ml/min
4/6/2022 8:28 AM	20:00	6.13 pH	22.44 °C	9,591.6 µS/cm	0.19 mg/L	0.59 NTU	62.6 mV	21.61 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-9	

Low-Flow Test Report:

Test Date / Time: 4/6/2022 9:39:09 AM

Project: Plant Watson

Operator Name: Rick Hagendorfer

Location Name: APMW-8 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 32.8 ft Total Depth: 42.8 ft Initial Depth to Water: 19.88 ft	Pump Type: QED Tubing Type: PE Pump Intake From TOC: 37.3 ft Estimated Total Volume Pumped: 22000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.1 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Ferrous Fe= 1.58mg/L H2s= 0.25mg/L

Weather Conditions:

Cloudy and windy. 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	
4/6/2022 9:39 AM	00:00	6.82 pH	24.74 °C	10,854 µS/cm	6.88 mg/L		51.1 mV	19.88 ft	400.00 ml/min
4/6/2022 9:44 AM	05:00	6.65 pH	22.74 °C	11,073 µS/cm	0.42 mg/L	8.76 NTU	23.6 mV	19.98 ft	400.00 ml/min
4/6/2022 9:49 AM	10:00	6.70 pH	22.71 °C	11,229 µS/cm	0.28 mg/L	14.70 NTU	2.5 mV	19.98 ft	400.00 ml/min
4/6/2022 9:54 AM	15:00	6.71 pH	22.65 °C	11,280 µS/cm	0.25 mg/L	12.00 NTU	-13.4 mV	19.98 ft	400.00 ml/min
4/6/2022 9:59 AM	20:00	6.72 pH	22.67 °C	11,295 µS/cm	0.23 mg/L	10.10 NTU	-25.4 mV	19.98 ft	400.00 ml/min
4/6/2022 10:04 AM	25:00	6.72 pH	22.71 °C	11,312 µS/cm	0.23 mg/L	7.62 NTU	-34.9 mV	19.98 ft	400.00 ml/min
4/6/2022 10:09 AM	30:00	6.73 pH	22.67 °C	11,317 µS/cm	0.22 mg/L	5.47 NTU	-43.1 mV	19.98 ft	400.00 ml/min
4/6/2022 10:14 AM	35:00	6.73 pH	22.78 °C	11,305 µS/cm	0.21 mg/L	3.97 NTU	-50.5 mV	19.98 ft	400.00 ml/min
4/6/2022 10:19 AM	40:00	6.74 pH	22.74 °C	11,302 µS/cm	0.21 mg/L	2.93 NTU	-57.4 mV	19.98 ft	400.00 ml/min
4/6/2022 10:24 AM	45:00	6.74 pH	22.80 °C	11,310 µS/cm	0.20 mg/L	2.32 NTU	-63.7 mV	19.98 ft	400.00 ml/min
4/6/2022 10:29 AM	50:00	6.74 pH	22.76 °C	11,330 µS/cm	0.20 mg/L	1.45 NTU	-69.3 mV	19.98 ft	400.00 ml/min
4/6/2022 10:34 AM	55:00	6.74 pH	22.80 °C	11,325 µS/cm	0.20 mg/L	1.42 NTU	-74.3 mV	19.98 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-8	Sample time 1036

Low-Flow Test Report:

Test Date / Time: 4/6/2022 9:48:15 AM

Project: Plant Watson CCR

Operator Name: Philip Evans

Location Name: Plant Watson APMW-5D Well Diameter: 2 in Screen Length: 5 ft Top of Screen: 106 ft Total Depth: 111 ft Initial Depth to Water: 8.65 ft	Pump Type: PP Tubing Type: Pe Pump Intake From TOC: 108.5 ft Estimated Total Volume Pumped: 86000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: -0.49 ft	Instrument Used: Aqua TROLL 400 Serial Number: 817728
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Test Notes:

Sample time @ 1325. Sunny 78. H2S= 0mg/L. Ferrous iron= 1.00 mg/L.

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	+/- 0.2	
4/6/2022 9:48 AM	00:00	8.00 pH	23.47 °C	179.71 µS/cm	0.94 mg/L	8.24 NTU	-124.8 mV	8.16 ft	400.00 ml/min
4/6/2022 9:53 AM	05:00	7.66 pH	22.22 °C	177.58 µS/cm	0.30 mg/L	8.08 NTU	-123.7 mV	8.16 ft	400.00 ml/min
4/6/2022 9:58 AM	10:00	7.45 pH	22.03 °C	177.01 µS/cm	0.24 mg/L	7.97 NTU	-124.3 mV	8.16 ft	400.00 ml/min
4/6/2022 10:03 AM	15:00	7.32 pH	22.04 °C	176.61 µS/cm	0.21 mg/L	7.24 NTU	-124.6 mV	8.16 ft	400.00 ml/min
4/6/2022 10:08 AM	20:00	7.24 pH	21.99 °C	176.64 µS/cm	0.20 mg/L	7.02 NTU	-123.5 mV	8.16 ft	400.00 ml/min
4/6/2022 10:13 AM	25:00	7.16 pH	22.04 °C	176.47 µS/cm	0.19 mg/L	6.70 NTU	-120.5 mV	8.16 ft	400.00 ml/min
4/6/2022 10:18 AM	30:00	7.09 pH	22.08 °C	175.24 µS/cm	0.19 mg/L	6.48 NTU	-116.6 mV	8.16 ft	400.00 ml/min
4/6/2022 10:23 AM	35:00	7.05 pH	22.13 °C	174.62 µS/cm	0.19 mg/L	6.20 NTU	-110.6 mV	8.16 ft	400.00 ml/min
4/6/2022 10:28 AM	40:00	7.03 pH	22.21 °C	173.64 µS/cm	0.18 mg/L	5.85 NTU	-105.5 mV	8.16 ft	400.00 ml/min
4/6/2022 10:33 AM	45:00	6.98 pH	22.17 °C	173.15 µS/cm	0.17 mg/L	7.10 NTU	-98.6 mV	8.16 ft	400.00 ml/min
4/6/2022 10:38 AM	50:00	6.96 pH	22.17 °C	172.80 µS/cm	0.17 mg/L	8.24 NTU	-93.9 mV	8.16 ft	400.00 ml/min
4/6/2022 10:43 AM	55:00	6.93 pH	22.14 °C	173.40 µS/cm	0.17 mg/L	8.66 NTU	-88.9 mV	8.16 ft	400.00 ml/min
4/6/2022 10:48 AM	01:00:00	6.90 pH	22.17 °C	172.91 µS/cm	0.17 mg/L	9.04 NTU	-85.1 mV	8.16 ft	400.00 ml/min
4/6/2022 10:53 AM	01:05:00	6.88 pH	22.26 °C	173.31 µS/cm	0.16 mg/L	9.60 NTU	-82.1 mV	8.16 ft	400.00 ml/min
4/6/2022 10:58 AM	01:10:00	6.85 pH	22.26 °C	173.04 µS/cm	0.16 mg/L	12.80 NTU	-78.1 mV	8.16 ft	400.00 ml/min

4/6/2022 11:03 AM	01:15:00	6.83 pH	22.27 °C	174.40 µS/cm	0.16 mg/L	15.10 NTU	-74.8 mV	8.16 ft	400.00 ml/min
4/6/2022 11:08 AM	01:20:00	6.81 pH	22.35 °C	174.56 µS/cm	0.16 mg/L	17.60 NTU	-71.3 mV	8.16 ft	400.00 ml/min
4/6/2022 11:13 AM	01:25:00	6.80 pH	22.24 °C	174.99 µS/cm	0.15 mg/L	19.50 NTU	-67.9 mV	8.16 ft	400.00 ml/min
4/6/2022 11:18 AM	01:30:00	6.78 pH	22.26 °C	176.39 µS/cm	0.16 mg/L	19.10 NTU	-64.9 mV	8.16 ft	400.00 ml/min
4/6/2022 11:23 AM	01:35:00	6.77 pH	22.09 °C	177.85 µS/cm	0.15 mg/L	18.90 NTU	-62.3 mV	8.16 ft	400.00 ml/min
4/6/2022 11:28 AM	01:40:00	6.76 pH	22.04 °C	179.41 µS/cm	0.15 mg/L	17.70 NTU	-59.8 mV	8.16 ft	400.00 ml/min
4/6/2022 11:33 AM	01:45:00	6.74 pH	22.04 °C	179.81 µS/cm	0.15 mg/L	17.10 NTU	-56.4 mV	8.16 ft	400.00 ml/min
4/6/2022 11:38 AM	01:50:00	6.74 pH	22.02 °C	180.17 µS/cm	0.15 mg/L	16.30 NTU	-55.5 mV	8.16 ft	400.00 ml/min
4/6/2022 11:43 AM	01:55:00	6.73 pH	22.03 °C	180.90 µS/cm	0.15 mg/L	15.10 NTU	-54.0 mV	8.16 ft	400.00 ml/min
4/6/2022 11:48 AM	02:00:00	6.73 pH	21.99 °C	181.32 µS/cm	0.14 mg/L	14.50 NTU	-52.6 mV	8.16 ft	400.00 ml/min
4/6/2022 11:53 AM	02:05:00	6.72 pH	22.01 °C	181.14 µS/cm	0.15 mg/L	13.60 NTU	-51.3 mV	8.16 ft	400.00 ml/min
4/6/2022 11:58 AM	02:10:00	6.70 pH	21.95 °C	181.31 µS/cm	0.15 mg/L	13.40 NTU	-49.0 mV	8.16 ft	400.00 ml/min
4/6/2022 12:03 PM	02:15:00	6.68 pH	21.99 °C	181.89 µS/cm	0.15 mg/L	12.90 NTU	-47.3 mV	8.16 ft	400.00 ml/min
4/6/2022 12:08 PM	02:20:00	6.70 pH	22.07 °C	181.70 µS/cm	0.14 mg/L	12.00 NTU	-47.5 mV	8.16 ft	400.00 ml/min
4/6/2022 12:13 PM	02:25:00	6.69 pH	22.17 °C	182.44 µS/cm	0.14 mg/L	11.80 NTU	-46.5 mV	8.16 ft	400.00 ml/min
4/6/2022 12:18 PM	02:30:00	6.68 pH	22.34 °C	182.60 µS/cm	0.14 mg/L	11.50 NTU	-45.6 mV	8.16 ft	400.00 ml/min
4/6/2022 12:23 PM	02:35:00	6.69 pH	22.35 °C	182.24 µS/cm	0.14 mg/L	10.60 NTU	-45.2 mV	8.16 ft	400.00 ml/min
4/6/2022 12:28 PM	02:40:00	6.69 pH	22.30 °C	182.32 µS/cm	0.14 mg/L	10.10 NTU	-44.6 mV	8.16 ft	400.00 ml/min
4/6/2022 12:33 PM	02:45:00	6.68 pH	22.27 °C	182.43 µS/cm	0.14 mg/L	9.69 NTU	-43.1 mV	8.16 ft	400.00 ml/min
4/6/2022 12:38 PM	02:50:00	6.66 pH	22.25 °C	182.37 µS/cm	0.14 mg/L	9.33 NTU	-42.0 mV	8.16 ft	400.00 ml/min
4/6/2022 12:43 PM	02:55:00	6.66 pH	22.17 °C	180.60 µS/cm	0.14 mg/L	9.12 NTU	-40.5 mV	8.16 ft	400.00 ml/min
4/6/2022 12:48 PM	03:00:00	6.68 pH	22.17 °C	181.84 µS/cm	0.13 mg/L	8.81 NTU	-41.4 mV	8.16 ft	400.00 ml/min
4/6/2022 12:53 PM	03:05:00	6.67 pH	22.17 °C	182.78 µS/cm	0.13 mg/L	8.58 NTU	-40.7 mV	8.16 ft	400.00 ml/min
4/6/2022 12:58 PM	03:10:00	6.64 pH	22.09 °C	183.02 µS/cm	0.13 mg/L	8.34 NTU	-38.5 mV	8.16 ft	400.00 ml/min
4/6/2022 1:03 PM	03:15:00	6.66 pH	22.12 °C	182.59 µS/cm	0.13 mg/L	8.16 NTU	-38.7 mV	8.16 ft	400.00 ml/min
4/6/2022 1:08 PM	03:20:00	6.65 pH	22.10 °C	182.98 µS/cm	0.14 mg/L	7.90 NTU	-37.4 mV	8.16 ft	400.00 ml/min
4/6/2022 1:13 PM	03:25:00	6.63 pH	22.26 °C	183.12 µS/cm	0.13 mg/L	7.75 NTU	-36.9 mV	8.16 ft	400.00 ml/min
4/6/2022 1:18 PM	03:30:00	6.64 pH	22.16 °C	182.34 µS/cm	0.13 mg/L	7.62 NTU	-35.9 mV	8.16 ft	400.00 ml/min
4/6/2022 1:23 PM	03:35:00	6.65 pH	22.29 °C	182.54 µS/cm	0.13 mg/L	7.55 NTU	-36.2 mV	8.16 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-5D	Sample time @ 1325. Sunny 78. H2S= 0mg/L. Ferrous iron= 1.00 mg/L.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 4/6/2022 11:58:54 AM

Project: Plant Watson

Operator Name: Rick Hagendorfer

Location Name: APMW-8D Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 87.5 ft Total Depth: 92.5 ft Initial Depth to Water: 19.49 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 90 ft Estimated Total Volume Pumped: 9000 ml Flow Cell Volume: 90 ml Final Flow Rate: 360 ml/min Final Draw Down: 1.84 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Ferrous Fe = 2.39mg/L H2S= 0.16mg/L

Weather Conditions:

Cloudy 79. Windy.

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	
4/6/2022 11:58 AM	00:00	6.91 pH	23.33 °C	204.20 µS/cm	0.23 mg/L		-85.8 mV	19.49 ft	360.00 ml/min
4/6/2022 12:03 PM	05:00	6.87 pH	23.07 °C	192.49 µS/cm	0.19 mg/L	4.30 NTU	-92.6 mV	21.32 ft	360.00 ml/min
4/6/2022 12:08 PM	10:00	6.83 pH	23.10 °C	185.36 µS/cm	0.17 mg/L	1.63 NTU	-92.9 mV	21.33 ft	360.00 ml/min
4/6/2022 12:13 PM	15:00	6.79 pH	23.18 °C	182.51 µS/cm	0.16 mg/L	1.01 NTU	-90.4 mV	21.33 ft	360.00 ml/min
4/6/2022 12:18 PM	20:00	6.75 pH	23.18 °C	185.54 µS/cm	0.16 mg/L	0.50 NTU	-88.1 mV	21.33 ft	360.00 ml/min
4/6/2022 12:23 PM	25:00	6.73 pH	23.17 °C	189.95 µS/cm	0.15 mg/L	0.35 NTU	-87.2 mV	21.33 ft	360.00 ml/min

Samples

Sample ID:	Description:
APMW-8D	Sample time 1230.

Low-Flow Test Report:

Test Date / Time: 4/6/2022 2:11:48 PM

Project: Plant Watson CCR

Operator Name: Philip Evans

Location Name: Plant Watson APMW-5 Well Diameter: 2 in Screen Length: 10 ft Top of Screen: 26.6 ft Total Depth: 36.6 ft Initial Depth to Water: 7.07 ft	Pump Type: QED Tubing Type: Pe Pump Intake From TOC: 31.6 ft Estimated Total Volume Pumped: 14000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.04 ft	Instrument Used: Aqua TROLL 400 Serial Number: 817728
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Test Notes:

Sample time @ 1450. Pc 77. H2S= 0mg/L. Ferrous iron= 7mg/L.

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	+/- 0.2	
4/6/2022 2:11 PM	00:00	5.24 pH	26.13 °C	22,147 µS/cm	1.60 mg/L	2.71 NTU	134.0 mV	7.11 ft	400.00 ml/min
4/6/2022 2:16 PM	05:00	5.72 pH	23.35 °C	23,242 µS/cm	0.41 mg/L	2.45 NTU	98.1 mV	7.11 ft	400.00 ml/min
4/6/2022 2:21 PM	10:00	5.89 pH	23.14 °C	23,348 µS/cm	0.30 mg/L	2.28 NTU	67.4 mV	7.11 ft	400.00 ml/min
4/6/2022 2:26 PM	15:00	5.98 pH	23.16 °C	23,269 µS/cm	0.25 mg/L	1.97 NTU	43.4 mV	7.11 ft	400.00 ml/min
4/6/2022 2:31 PM	20:00	6.04 pH	23.11 °C	23,427 µS/cm	0.24 mg/L	1.85 NTU	26.1 mV	7.11 ft	400.00 ml/min
4/6/2022 2:36 PM	25:00	6.09 pH	23.17 °C	23,422 µS/cm	0.22 mg/L	1.84 NTU	13.6 mV	7.11 ft	400.00 ml/min
4/6/2022 2:41 PM	30:00	6.13 pH	23.16 °C	23,380 µS/cm	0.22 mg/L	1.82 NTU	4.1 mV	7.11 ft	400.00 ml/min
4/6/2022 2:46 PM	35:00	6.16 pH	22.91 °C	23,401 µS/cm	0.22 mg/L	1.81 NTU	-3.2 mV	7.11 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-5	Sample time @ 1450. Pc 77. H2S= 0mg/L. Ferrous iron= 7mg/L.

Low-Flow Test Report:

Test Date / Time: 4/6/2022 2:36:18 PM

Project: Plant Watson APMW-7

Operator Name: Rick Hagendorfer

Location Name: APMW-7 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 27.4 ft Total Depth: 37.4 ft Initial Depth to Water: 11.72 ft	Pump Type: QED Tubing Type: PE Pump Intake From TOC: 32.4 ft Estimated Total Volume Pumped: 12600 ml Flow Cell Volume: 90 ml Final Flow Rate: 360 ml/min Final Draw Down: 0.55 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Ferrous Fe = 1.91mg/L H2s= 2.28mg/L

Weather Conditions:

Cloudy 81. Windy

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	
4/6/2022 2:36 PM	00:00	6.79 pH	27.77 °C	11,095 µS/cm	2.82 mg/L		122.9 mV	11.72 ft	360.00 ml/min
4/6/2022 2:41 PM	05:00	6.33 pH	23.43 °C	12,415 µS/cm	0.25 mg/L	5.76 NTU	34.8 mV	12.20 ft	360.00 ml/min
4/6/2022 2:46 PM	10:00	6.36 pH	23.02 °C	12,722 µS/cm	0.19 mg/L	2.04 NTU	-77.2 mV	12.26 ft	360.00 ml/min
4/6/2022 2:51 PM	15:00	6.39 pH	23.16 °C	12,924 µS/cm	0.17 mg/L	1.34 NTU	-133.9 mV	12.27 ft	360.00 ml/min
4/6/2022 2:56 PM	20:00	6.43 pH	23.31 °C	12,945 µS/cm	0.16 mg/L	0.88 NTU	-183.0 mV	12.27 ft	360.00 ml/min
4/6/2022 3:01 PM	25:00	6.42 pH	23.22 °C	13,016 µS/cm	0.16 mg/L	1.04 NTU	-196.1 mV	12.27 ft	360.00 ml/min
4/6/2022 3:06 PM	30:00	6.38 pH	23.34 °C	13,002 µS/cm	0.16 mg/L	0.75 NTU	-201.0 mV	12.27 ft	360.00 ml/min
4/6/2022 3:11 PM	35:00	6.38 pH	23.27 °C	13,004 µS/cm	0.15 mg/L	0.81 NTU	-204.4 mV	12.27 ft	360.00 ml/min

Samples

Sample ID:	Description:
APMW-7	Sample time 1515. Dup-03 fake sample time 1415.

Low-Flow Test Report:

Test Date / Time: 4/7/2022 7:46:35 AM

Project: Plant Watson

Operator Name: Philip Evans

Location Name: Plant Watson APMW-6D Well Diameter: 2 in Screen Length: 5 ft Top of Screen: 100.9 ft Total Depth: 105.9 ft Initial Depth to Water: 8.08 ft	Pump Type: PP Tubing Type: Pe Pump Intake From TOC: 103.4 ft Estimated Total Volume Pumped: 8000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.94 ft	Instrument Used: Aqua TROLL 400 Serial Number: 817728
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Test Notes:

Sample time @ 0810. Sunny 70. DUP-04@ fake time 0710. FB-02@ 0815. H2S= 0.265mg/L. Ferrous iron= 1.41mg/L.

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	+/- 0.2	
4/7/2022 7:46 AM	00:00	7.22 pH	19.81 °C	262.46 µS/cm	0.82 mg/L	6.22 NTU	84.9 mV	8.08 ft	400.00 ml/min
4/7/2022 7:51 AM	05:00	6.80 pH	20.31 °C	261.48 µS/cm	0.28 mg/L	5.16 NTU	56.9 mV	8.95 ft	400.00 ml/min
4/7/2022 7:56 AM	10:00	6.74 pH	19.94 °C	259.92 µS/cm	0.27 mg/L	2.18 NTU	49.0 mV	8.98 ft	400.00 ml/min
4/7/2022 8:01 AM	15:00	6.72 pH	19.79 °C	260.10 µS/cm	0.27 mg/L	1.87 NTU	41.6 mV	9.00 ft	400.00 ml/min
4/7/2022 8:06 AM	20:00	6.69 pH	19.81 °C	260.34 µS/cm	0.25 mg/L	1.79 NTU	34.8 mV	9.02 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-6D	Sample time @ 0810. Sunny 70. DUP-04@ fake time 0710. FB-02@ 0815. H2S= 0.265mg/L. Ferrous iron= 1.41mg/L.

Low-Flow Test Report:

Test Date / Time: 4/7/2022 9:04:58 AM

Project: Plant Watson CCR

Operator Name: Philip Evans

Location Name: Plant Watson APMW-6R Well Diameter: 2 in Screen Length: 10 ft Top of Screen: 41.85 ft Total Depth: 51.85 ft Initial Depth to Water: 6.72 ft	Pump Type: PP Tubing Type: Pe Pump Intake From TOC: 46.85 ft Estimated Total Volume Pumped: 40000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 1.48 ft	Instrument Used: Aqua TROLL 400 Serial Number: 817728
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Test Notes:

Sample time @ 1047. Sunny 72. EB-02@ 0858.

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	+/- 0.2	
4/7/2022 9:04 AM	00:00	5.92 pH	19.53 °C	9,936.2 µS/cm	2.01 mg/L	15.00 NTU	83.3 mV	8.20 ft	400.00 ml/min
4/7/2022 9:09 AM	05:00	5.92 pH	20.12 °C	9,879.5 µS/cm	0.36 mg/L	13.80 NTU	56.3 mV	8.20 ft	400.00 ml/min
4/7/2022 9:14 AM	10:00	5.93 pH	20.22 °C	9,906.6 µS/cm	0.29 mg/L	12.10 NTU	40.6 mV	8.20 ft	400.00 ml/min
4/7/2022 9:19 AM	15:00	5.95 pH	20.31 °C	9,900.2 µS/cm	0.25 mg/L	11.80 NTU	28.1 mV	8.20 ft	400.00 ml/min
4/7/2022 9:24 AM	20:00	5.96 pH	20.43 °C	9,906.6 µS/cm	0.23 mg/L	11.40 NTU	17.6 mV	8.20 ft	400.00 ml/min
4/7/2022 9:29 AM	25:00	5.98 pH	20.51 °C	9,897.6 µS/cm	0.22 mg/L	10.10 NTU	8.8 mV	8.20 ft	400.00 ml/min
4/7/2022 9:34 AM	30:00	6.00 pH	20.60 °C	9,875.2 µS/cm	0.21 mg/L	9.09 NTU	1.3 mV	8.20 ft	400.00 ml/min
4/7/2022 9:39 AM	35:00	6.01 pH	20.66 °C	9,892.6 µS/cm	0.21 mg/L	7.84 NTU	-5.1 mV	8.20 ft	400.00 ml/min
4/7/2022 9:44 AM	40:00	6.01 pH	20.67 °C	10,023 µS/cm	0.20 mg/L	7.13 NTU	-10.2 mV	8.20 ft	400.00 ml/min
4/7/2022 9:49 AM	45:00	5.98 pH	20.75 °C	10,447 µS/cm	0.20 mg/L	6.28 NTU	-13.9 mV	8.20 ft	400.00 ml/min
4/7/2022 9:54 AM	50:00	5.94 pH	20.84 °C	11,030 µS/cm	0.19 mg/L	5.25 NTU	-16.4 mV	8.20 ft	400.00 ml/min
4/7/2022 9:59 AM	55:00	5.91 pH	20.88 °C	11,417 µS/cm	0.19 mg/L	4.90 NTU	-18.1 mV	8.20 ft	400.00 ml/min
4/7/2022 10:04 AM	01:00:00	5.90 pH	20.97 °C	11,623 µS/cm	0.19 mg/L	4.02 NTU	-19.6 mV	8.20 ft	400.00 ml/min
4/7/2022 10:09 AM	01:05:00	5.89 pH	21.01 °C	11,747 µS/cm	0.19 mg/L	3.56 NTU	-21.0 mV	8.20 ft	400.00 ml/min
4/7/2022 10:14 AM	01:10:00	5.90 pH	21.01 °C	11,811 µS/cm	0.18 mg/L	3.04 NTU	-22.3 mV	8.20 ft	400.00 ml/min

4/7/2022 10:19 AM	01:15:00	5.90 pH	21.10 °C	11,854 µS/cm	0.19 mg/L	2.91 NTU	-23.4 mV	8.20 ft	400.00 ml/min
4/7/2022 10:24 AM	01:20:00	5.90 pH	21.19 °C	11,874 µS/cm	0.18 mg/L	2.75 NTU	-24.4 mV	8.20 ft	400.00 ml/min
4/7/2022 10:29 AM	01:25:00	5.90 pH	21.27 °C	11,875 µS/cm	0.17 mg/L	2.48 NTU	-25.2 mV	8.20 ft	400.00 ml/min
4/7/2022 10:34 AM	01:30:00	5.91 pH	21.45 °C	11,876 µS/cm	0.17 mg/L	2.03 NTU	-26.2 mV	8.20 ft	400.00 ml/min
4/7/2022 10:39 AM	01:35:00	5.91 pH	21.59 °C	11,921 µS/cm	0.17 mg/L	1.94 NTU	-26.8 mV	8.20 ft	400.00 ml/min
4/7/2022 10:44 AM	01:40:00	5.91 pH	21.82 °C	11,903 µS/cm	0.17 mg/L	1.86 NTU	-27.7 mV	8.20 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-6R	Sample time @ 1047. Sunny 72. EB-02@ 0858.

Low-Flow Test Report:

Test Date / Time: 4/7/2022 9:25:06 AM

Project: Plant Watson APMW-16

Operator Name: Rick Hagendorfer

Location Name: APMW-16 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 m Top of Screen: 19.5 ft Total Depth: 24.5 ft Initial Depth to Water: 2.94 ft	Pump Type: QED Tubing Type: PE Pump Intake From TOC: 22 ft Estimated Total Volume Pumped: 5754 ml Flow Cell Volume: 90 ml Final Flow Rate: 360 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Ferrous Fe = 0.07mg/L H2s will be run later.

Weather Conditions:

Sunny 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	
4/7/2022 9:25 AM	00:00	6.51 pH	20.44 °C	9,003.4 µS/cm	0.26 mg/L	5.55 NTU	-177.5 mV	2.94 ft	360.00 ml/min
4/7/2022 9:26 AM	00:59	6.51 pH	20.39 °C	9,015.6 µS/cm	0.24 mg/L	5.11 NTU	-191.5 mV	2.94 ft	360.00 ml/min
4/7/2022 9:31 AM	05:59	6.54 pH	20.46 °C	9,094.2 µS/cm	0.19 mg/L	4.58 NTU	-222.3 mV	2.98 ft	360.00 ml/min
4/7/2022 9:36 AM	10:59	6.55 pH	20.53 °C	9,168.5 µS/cm	0.17 mg/L	2.02 NTU	-230.9 mV	2.95 ft	360.00 ml/min
4/7/2022 9:41 AM	15:59	6.55 pH	20.62 °C	9,147.6 µS/cm	0.16 mg/L	1.45 NTU	-234.7 mV	2.94 ft	360.00 ml/min

Samples

Sample ID:	Description:
Apmw-16	Sample time 0943

Low-Flow Test Report:

Test Date / Time: 4/7/2022 10:22:26 AM

Project: Plant Watson APMW-16

Operator Name: Rick Hagendorfer

Location Name: APMW-15 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 20.5 ft Total Depth: 25.5 ft Initial Depth to Water: 2.84 ft	Pump Type: QED Tubing Type: PE Pump Intake From TOC: 23 ft Estimated Total Volume Pumped: 7200 ml Flow Cell Volume: 90 ml Final Flow Rate: 360 ml/min Final Draw Down: 0.05 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Ferrous Fe = 0.0mg/L H2s will be run later.

Weather Conditions:

Sunny 68.

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	
4/7/2022 10:22 AM	00:00	6.51 pH	29.57 °C	5,445.9 µS/cm	4.57 mg/L	1.91 NTU	-190.0 mV	2.84 ft	360.00 ml/min
4/7/2022 10:27 AM	05:00	6.51 pH	21.06 °C	8,482.1 µS/cm	0.21 mg/L	1.86 NTU	-241.2 mV	2.92 ft	360.00 ml/min
4/7/2022 10:32 AM	10:00	6.52 pH	20.83 °C	8,640.0 µS/cm	0.18 mg/L	2.46 NTU	-246.3 mV	2.91 ft	360.00 ml/min
4/7/2022 10:37 AM	15:00	6.52 pH	20.84 °C	8,923.0 µS/cm	0.17 mg/L	1.65 NTU	-249.0 mV	2.90 ft	360.00 ml/min
4/7/2022 10:42 AM	20:00	6.53 pH	20.86 °C	9,008.5 µS/cm	0.16 mg/L	1.19 NTU	-250.7 mV	2.89 ft	360.00 ml/min

Samples

Sample ID:	Description:
APMW-15	Sample time 1043.

Low-Flow Test Report:

Test Date / Time: 4/7/2022 11:18:57 AM

Project: Plant Watson APMW-16

Operator Name: Rick Hagendorfer

Location Name: APMW-14 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 16.6 ft Total Depth: 21.5 ft Initial Depth to Water: 2.59 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 19 ft Estimated Total Volume Pumped: 23400 ml Flow Cell Volume: 90 ml Final Flow Rate: 360 ml/min Final Draw Down: 0.04 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Ferrous Fe = 2.7mg/L H2s will be run later.

Weather Conditions:

Sunny 70.

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	
4/7/2022 11:18 AM	00:00	6.44 pH	23.87 °C	8,633.5 µS/cm	1.38 mg/L		15.5 mV	2.59 ft	360.00 ml/min
4/7/2022 11:23 AM	05:00	6.10 pH	20.70 °C	9,307.5 µS/cm	0.15 mg/L	331.00 NTU	-7.3 mV	2.81 ft	360.00 ml/min
4/7/2022 11:28 AM	10:00	6.09 pH	20.68 °C	9,533.1 µS/cm	0.13 mg/L	145.00 NTU	-10.6 mV	2.82 ft	360.00 ml/min
4/7/2022 11:33 AM	15:00	6.08 pH	20.73 °C	9,646.0 µS/cm	0.11 mg/L	34.80 NTU	-12.4 mV	2.78 ft	360.00 ml/min
4/7/2022 11:38 AM	20:00	6.08 pH	20.75 °C	9,722.3 µS/cm	0.11 mg/L	14.70 NTU	-12.9 mV	2.76 ft	360.00 ml/min
4/7/2022 11:43 AM	25:00	6.08 pH	20.75 °C	9,761.5 µS/cm	0.10 mg/L	12.70 NTU	-13.0 mV	2.76 ft	360.00 ml/min
4/7/2022 11:48 AM	30:00	6.08 pH	20.78 °C	9,794.7 µS/cm	0.10 mg/L	10.80 NTU	-13.1 mV	2.74 ft	360.00 ml/min
4/7/2022 11:53 AM	35:00	6.07 pH	20.75 °C	9,813.3 µS/cm	0.10 mg/L	11.50 NTU	-13.2 mV	2.71 ft	360.00 ml/min
4/7/2022 11:58 AM	40:00	6.07 pH	20.80 °C	9,841.1 µS/cm	0.10 mg/L	5.17 NTU	-13.3 mV	2.69 ft	360.00 ml/min
4/7/2022 12:03 PM	45:00	6.08 pH	20.82 °C	9,855.5 µS/cm	0.09 mg/L	5.81 NTU	-13.3 mV	2.67 ft	360.00 ml/min
4/7/2022 12:08 PM	50:00	6.08 pH	20.84 °C	9,864.7 µS/cm	0.09 mg/L	4.04 NTU	-13.5 mV	2.66 ft	360.00 ml/min
4/7/2022 12:13 PM	55:00	6.08 pH	20.84 °C	9,882.7 µS/cm	0.09 mg/L	3.59 NTU	-13.6 mV	2.65 ft	360.00 ml/min
4/7/2022 12:18 PM	01:00:00	6.08 pH	20.86 °C	9,874.5 µS/cm	0.09 mg/L	2.74 NTU	-14.0 mV	2.65 ft	360.00 ml/min

4/7/2022 12:23 PM	01:05:00	6.07 pH	20.82 °C	9,889.7 µS/cm	0.09 mg/L	2.19 NTU	-14.0 mV	2.63 ft	360.00 ml/min
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Samples

Sample ID:	Description:
APMW-14	Sample time 1225.

Low-Flow Test Report:

Test Date / Time: 4/7/2022 12:51:18 PM

Project: Plant Watson APMW-13

Operator Name: Rick Hagendorfer

Location Name: APMW-13 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 16.5 ft Total Depth: 21.5 ft Initial Depth to Water: 2.62 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 19 ft Estimated Total Volume Pumped: 7200 ml Flow Cell Volume: 90 ml Final Flow Rate: 360 ml/min Final Draw Down: 0.13 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Ferrous Fe = 3.3mg/L H2s will be run later.

Weather Conditions:

Sunny 73. Windy

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	
4/7/2022 12:51 PM	00:00	6.94 pH	29.90 °C	548.85 µS/cm	7.41 mg/L		-1.3 mV	2.62 ft	360.00 ml/min
4/7/2022 12:56 PM	05:00	6.06 pH	21.51 °C	5,773.4 µS/cm	0.15 mg/L	4.05 NTU	2.0 mV	2.80 ft	360.00 ml/min
4/7/2022 1:01 PM	10:00	6.06 pH	21.42 °C	5,781.6 µS/cm	0.13 mg/L	2.10 NTU	-3.3 mV	2.78 ft	360.00 ml/min
4/7/2022 1:06 PM	15:00	6.06 pH	21.43 °C	5,782.4 µS/cm	0.11 mg/L	1.37 NTU	-8.1 mV	2.76 ft	360.00 ml/min
4/7/2022 1:11 PM	20:00	6.07 pH	21.48 °C	5,777.7 µS/cm	0.11 mg/L	1.04 NTU	-12.1 mV	2.75 ft	360.00 ml/min

Samples

Sample ID:	Description:
APMW-13	Sample time 1314.

ANALYTICAL REPORT

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-136321-1

Client Project/Site: Plant Watson Ash Pond

For:

Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Robert Singleton



Authorized for release by:
4/26/2022 9:26:43 AM

Shali Brown, Project Manager II
(615)301-5031

Shali.Brown@et.eurofinsus.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

Job ID: 180-136321-1

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-136321-1

Comments

No additional comments.

Receipt

The samples were received on 4/7/2022 11:10 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 2.4° C, 2.4° C and 2.8° C.

GC Semi VOA

Methods 300.0, 9056A: The following samples were diluted to bring the concentration of target analytes within the calibration range: APMW-1R (180-136321-1), APMW-2 (180-136321-2), APMW-3 (180-136321-3), DUP-01 (180-136321-4) and DUP-02 (180-136321-5), APMW-10 (180-136321-9) and APMW-4D (180-136321-14). Elevated reporting limits (RLs) are provided. As stated in the SOP, due to the sample's conductivity reading, a dilution was performed on the sample's initial analysis, which is an indication of the amount of anions present in the samples. Any non-detection will have elevated reporting levels. Even though the target anions were not detected in the dilution analysis, this is the lowest possible level of detection that can be obtained from the samples' matrix, because there are other high levels of non-target anions present in this sample which would contaminate the IC system, & render it non-operational for hours or even days. As a result, all non-detected anion's values are reported at these elevated reporting levels:

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

Metals

Method 6020B: The serial dilution performed for the following sample associated with batch 180-395393 was outside control limits for iron and boron: APMW-4D (180-136321-14)

Method 6020B: The post digestion spike % recovery for potassium and barium associated with batch 180-395393 was outside of control limits. The associated sample is: APMW-4D (180-136321-14).

Methods 6020A, 6020B: The following samples were diluted to bring the concentration of target analytes within the calibration range: APMW-1R (180-136321-1), APMW-3 (180-136321-3), DUP-01 (180-136321-4), APMW-4D (180-136321-14), (180-136321-E-14-B MS ^10), (180-136321-E-14-C MSD ^10), (180-136321-E-14-A PDS ^10), (180-136321-E-14-A SD ^50), APMW-12 (180-136321-11), APMW-2D (180-136321-12) and APMW-3D (180-136321-13). Elevated reporting limits (RLs) are provided.

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

General Chemistry

Method SM 2320B: The laboratory control sample (LCS) for analytical batch 180-394814 recovered outside control limits for the following analytes: Total Alkalinity as CaCO₃ to pH 4.5. LCS recovered low (89%), where 90% is the bottom limit for QC recovery. However, per SOP, an LLCS (Lower Laboratory Control Sample) is also analyzed for Total Alkalinity. The associated LLCS passed all criteria; therefore, associated samples are able to be reported since they are below 20 mg/L and/or the RL.

Method SM 2320B: The following samples was analyzed outside of analytical holding time due to instrument issues: APMW-11 (180-136321-10).

Method 353.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 180-395167 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method SM 5310C: The following samples were analyzed in duplicate: APMW-2 (180-136321-2), APMW-3 (180-136321-3), DUP-02 (180-136321-5), FB-01 (180-136321-6), APMW-10D (180-136321-7), EB-01 (180-136321-8), APMW-11 (180-136321-10), APMW-12 (180-136321-11), APMW-2D (180-136321-12), APMW-3D (180-136321-13) and APMW-4D (180-136321-14). The RPD between the two replicates was > 10%. However, the difference between duplicate analyses was less than the RL. Therefore, samples will be reported.

Method SM 5310C: The following samples were analyzed in duplicate: APMW-1R (180-136321-1) and DUP-01 (180-136321-4). The RPD

Case Narrative

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

Job ID: 180-136321-1 (Continued)

Laboratory: Eurofins Pittsburgh (Continued)

between the two replicates was > 10%. Re-analysis was not performed due to insufficient sample volume remaining. Samples were analyzed once prior in a separate batch.

Method SM 5310C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 180-394685 and 180-395223.

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

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Definitions/Glossary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

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
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.
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.

General Chemistry

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time
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 Watson Ash Pond

Job ID: 180-136321-1

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	06-27-22
California	State	2891	04-30-22
Connecticut	State	PH-0688	09-30-22
Florida	NELAP	E871008	06-30-22
Georgia	State	PA 02-00416	04-30-22
Illinois	NELAP	004375	06-30-22
Kansas	NELAP	E-10350	03-31-22 *
Kentucky (UST)	State	162013	04-30-22
Kentucky (WW)	State	KY98043	12-31-22
Louisiana	NELAP	04041	06-30-22
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-22
Nevada	State	PA00164	08-31-22
New Hampshire	NELAP	2030	04-04-23
New Jersey	NELAP	PA005	06-30-23
New York	NELAP	11182	04-02-22 *
North Carolina (WW/SW)	State	434	12-31-22
North Dakota	State	R-227	04-30-22
Oregon	NELAP	PA-2151	02-07-23
Pennsylvania	NELAP	02-00416	04-30-22
Rhode Island	State	LAO00362	12-31-21 *
South Carolina	State	89014	06-30-22
Texas	NELAP	T104704528	03-31-23
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-22
Virginia	NELAP	10043	09-15-22
West Virginia DEP	State	142	01-31-23
Wisconsin	State	998027800	08-31-22

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



Sample Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-136321-1	APMW-1R	Water	04/04/22 17:30	04/07/22 11:10
180-136321-2	APMW-2	Water	04/05/22 10:45	04/07/22 11:10
180-136321-3	APMW-3	Water	04/05/22 12:08	04/07/22 11:10
180-136321-4	DUP-01	Water	04/04/22 16:30	04/07/22 11:10
180-136321-5	DUP-02	Water	04/05/22 09:45	04/07/22 11:10
180-136321-6	FB-01	Water	04/05/22 14:55	04/07/22 11:10
180-136321-7	APMW-10D	Water	04/05/22 16:13	04/07/22 11:10
180-136321-8	EB-01	Water	04/05/22 16:28	04/07/22 11:10
180-136321-9	APMW-10	Water	04/05/22 10:54	04/07/22 11:10
180-136321-10	APMW-11	Water	04/04/22 12:20	04/07/22 11:10
180-136321-11	APMW-12	Water	04/04/22 13:40	04/07/22 11:10
180-136321-12	APMW-2D	Water	04/05/22 09:38	04/07/22 11:10
180-136321-13	APMW-3D	Water	04/05/22 13:05	04/07/22 11:10
180-136321-14	APMW-4D	Water	04/05/22 14:50	04/07/22 11:10



Method Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
EPA 353.2	Nitrogen, Nitrate-Nitrite	EPA	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
SM 5310C	Total Organic Carbon	SM	TAL PIT
SM2320 B	Alkalinity, Total	SM18	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

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

Laboratory References:

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

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

Client Sample ID: APMW-1R

Lab Sample ID: 180-136321-1

Date Collected: 04/04/22 17:30

Matrix: Water

Date Received: 04/07/22 11:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5			395439	04/14/22 21:23	JRB	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	395116	04/12/22 10:54	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		10			395518	04/14/22 17:27	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	395116	04/12/22 10:54	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395393	04/13/22 21:58	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			50 mL	50 mL	395825	04/18/22 15:10	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			395971	04/19/22 12:51	KFS	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	395167	04/12/22 16:18	SNR	TAL PIT
Instrument ID: ASTORIA2										
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	394792	04/08/22 16:01	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 5310C		1			395223	04/12/22 18:17	CMT	TAL PIT
Instrument ID: SAM										
Total/NA	Analysis	SM2320 B		1			394814	04/09/22 01:36	CMT	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: APMW-2

Lab Sample ID: 180-136321-2

Date Collected: 04/05/22 10:45

Matrix: Water

Date Received: 04/07/22 11:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5			395439	04/14/22 21:50	JRB	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	395116	04/12/22 10:54	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395518	04/14/22 17:30	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	395116	04/12/22 10:54	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395393	04/13/22 22:12	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			50 mL	50 mL	395825	04/18/22 15:10	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			395971	04/19/22 12:52	KFS	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	395167	04/12/22 16:22	SNR	TAL PIT
Instrument ID: ASTORIA2										
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	394792	04/08/22 16:01	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 5310C		1			394685	04/07/22 21:58	CMT	TAL PIT
Instrument ID: SAM										
Total/NA	Analysis	SM2320 B		1			395077	04/09/22 20:07	CMT	TAL PIT
Instrument ID: PCTITRATOR										

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

Client Sample ID: APMW-3
Date Collected: 04/05/22 12:08
Date Received: 04/07/22 11:10

Lab Sample ID: 180-136321-3
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	300.0		25			395439	04/14/22 22:42	JRB	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	395116	04/12/22 10:54	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		10			395518	04/14/22 17:41	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	395116	04/12/22 10:54	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395393	04/13/22 22:33	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			50 mL	50 mL	395825	04/18/22 15:10	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			395971	04/19/22 12:56	KFS	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	395167	04/12/22 16:24	SNR	TAL PIT
Instrument ID: ASTORIA2										
Total/NA	Analysis	SM 2540C		1	5 mL	100 mL	394796	04/08/22 18:53	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 5310C		1			394685	04/07/22 22:11	CMT	TAL PIT
Instrument ID: SAM										
Total/NA	Analysis	SM2320 B		1			394814	04/09/22 01:52	CMT	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: DUP-01
Date Collected: 04/04/22 16:30
Date Received: 04/07/22 11:10

Lab Sample ID: 180-136321-4
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	300.0		5			395439	04/14/22 23:07	JRB	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	395116	04/12/22 10:54	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		10			395518	04/14/22 17:45	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	395116	04/12/22 10:54	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395393	04/13/22 22:47	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			50 mL	50 mL	395825	04/18/22 15:10	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			395971	04/19/22 12:57	KFS	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	395167	04/12/22 16:26	SNR	TAL PIT
Instrument ID: ASTORIA2										
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	394792	04/08/22 16:01	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 5310C		1			395223	04/12/22 18:31	CMT	TAL PIT
Instrument ID: SAM										
Total/NA	Analysis	SM2320 B		1			394814	04/09/22 01:43	CMT	TAL PIT
Instrument ID: PCTITRATOR										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

Client Sample ID: DUP-02
Date Collected: 04/05/22 09:45
Date Received: 04/07/22 11:10

Lab Sample ID: 180-136321-5
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	300.0		5			395439	04/14/22 23:31	JRB	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	395116	04/12/22 10:54	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395518	04/14/22 17:48	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	395116	04/12/22 10:54	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395393	04/13/22 23:01	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			50 mL	50 mL	395826	04/18/22 15:13	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			395971	04/19/22 13:13	KFS	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	395167	04/12/22 16:27	SNR	TAL PIT
Instrument ID: ASTORIA2										
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	394796	04/08/22 18:53	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 5310C		1			394685	04/07/22 22:38	CMT	TAL PIT
Instrument ID: SAM										
Total/NA	Analysis	SM2320 B		1			395077	04/09/22 20:15	CMT	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: FB-01
Date Collected: 04/05/22 14:55
Date Received: 04/07/22 11:10

Lab Sample ID: 180-136321-6
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	300.0		1			395439	04/14/22 23:56	JRB	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	395116	04/12/22 10:54	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395518	04/14/22 18:03	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	395116	04/12/22 10:54	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395393	04/13/22 23:15	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			50 mL	50 mL	395826	04/18/22 15:13	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			395971	04/19/22 13:14	KFS	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	395167	04/12/22 16:33	SNR	TAL PIT
Instrument ID: ASTORIA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	394796	04/08/22 18:53	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 5310C		1			394685	04/07/22 22:50	CMT	TAL PIT
Instrument ID: SAM										
Total/NA	Analysis	SM2320 B		1			394814	04/08/22 16:53	CMT	TAL PIT
Instrument ID: PCTITRATOR										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

Client Sample ID: APMW-10D

Lab Sample ID: 180-136321-7

Date Collected: 04/05/22 16:13

Matrix: Water

Date Received: 04/07/22 11:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			395384	04/14/22 10:58	JRB	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	395116	04/12/22 10:54	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395518	04/14/22 18:07	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	395116	04/12/22 10:54	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395393	04/13/22 23:18	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			50 mL	50 mL	395826	04/18/22 15:13	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			395971	04/19/22 13:15	KFS	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	395167	04/12/22 16:35	SNR	TAL PIT
Instrument ID: ASTORIA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	394796	04/08/22 18:53	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 5310C		1			394685	04/08/22 00:02	CMT	TAL PIT
Instrument ID: SAM										
Total/NA	Analysis	SM2320 B		1			395077	04/09/22 17:41	CMT	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: EB-01

Lab Sample ID: 180-136321-8

Date Collected: 04/05/22 16:28

Matrix: Water

Date Received: 04/07/22 11:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			395869	04/19/22 10:31	JRB	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	395116	04/12/22 10:54	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395518	04/14/22 18:18	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	395116	04/12/22 10:54	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395393	04/13/22 23:22	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			50 mL	50 mL	395826	04/18/22 15:13	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			395971	04/19/22 13:16	KFS	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	395167	04/12/22 16:37	SNR	TAL PIT
Instrument ID: ASTORIA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	394796	04/08/22 18:53	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 5310C		1			394685	04/08/22 00:14	CMT	TAL PIT
Instrument ID: SAM										
Total/NA	Analysis	SM2320 B		1			394814	04/08/22 17:07	CMT	TAL PIT
Instrument ID: PCTITRATOR										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

Client Sample ID: APMW-10

Lab Sample ID: 180-136321-9

Date Collected: 04/05/22 10:54

Matrix: Water

Date Received: 04/07/22 11:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2.5			395869	04/19/22 10:45	JRB	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	395116	04/12/22 10:54	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395518	04/14/22 18:21	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	395116	04/12/22 10:54	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395393	04/13/22 23:25	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			50 mL	50 mL	395826	04/18/22 15:13	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			395971	04/19/22 13:17	KFS	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	395167	04/12/22 16:38	SNR	TAL PIT
Instrument ID: ASTORIA2										
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	394796	04/08/22 18:53	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 5310C		1			394685	04/08/22 00:28	CMT	TAL PIT
Instrument ID: SAM										
Total/NA	Analysis	SM2320 B		1			394814	04/09/22 01:27	CMT	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: APMW-11

Lab Sample ID: 180-136321-10

Date Collected: 04/04/22 12:20

Matrix: Water

Date Received: 04/07/22 11:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			395869	04/19/22 09:37	JRB	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	395116	04/12/22 10:54	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395518	04/14/22 18:25	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	395116	04/12/22 10:54	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395393	04/13/22 23:29	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			50 mL	50 mL	395826	04/18/22 15:13	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			395971	04/19/22 13:18	KFS	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	395167	04/12/22 16:40	SNR	TAL PIT
Instrument ID: ASTORIA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	394796	04/08/22 18:53	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 5310C		1			394685	04/08/22 02:09	CMT	TAL PIT
Instrument ID: SAM										
Total/NA	Analysis	SM2320 B		1	50 mL	50 mL	396119	04/20/22 10:54	HEK	TAL PIT
Instrument ID: NOEQUIP										

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

Client Sample ID: APMW-12
Date Collected: 04/04/22 13:40
Date Received: 04/07/22 11:10

Lab Sample ID: 180-136321-11
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	300.0		1			395384	04/14/22 11:11	JRB	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	395116	04/12/22 10:54	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395518	04/14/22 18:29	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	395116	04/12/22 10:54	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		10			395518	04/14/22 18:39	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	395116	04/12/22 10:54	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395393	04/13/22 23:32	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			50 mL	50 mL	395826	04/18/22 15:13	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			395971	04/19/22 13:22	KFS	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	395167	04/12/22 16:41	SNR	TAL PIT
Instrument ID: ASTORIA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	394792	04/08/22 16:01	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 5310C		1			394685	04/08/22 02:22	CMT	TAL PIT
Instrument ID: SAM										
Total/NA	Analysis	SM2320 B		1			394814	04/09/22 00:46	CMT	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: APMW-2D
Date Collected: 04/05/22 09:38
Date Received: 04/07/22 11:10

Lab Sample ID: 180-136321-12
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	300.0		1			395869	04/19/22 12:27	JRB	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	395116	04/12/22 10:54	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395518	04/14/22 18:32	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	395116	04/12/22 10:54	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		10			395518	04/14/22 18:43	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	395116	04/12/22 10:54	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395393	04/13/22 23:43	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			50 mL	50 mL	395826	04/18/22 15:13	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			395971	04/19/22 13:24	KFS	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	395167	04/12/22 16:46	SNR	TAL PIT
Instrument ID: ASTORIA2										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

Client Sample ID: APMW-2D

Lab Sample ID: 180-136321-12

Date Collected: 04/05/22 09:38

Matrix: Water

Date Received: 04/07/22 11:10

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	394792	04/08/22 16:01	JCR	TAL PIT
Total/NA	Analysis	SM 5310C		1			394685	04/08/22 02:35	CMT	TAL PIT
		Instrument ID: SAM								
Total/NA	Analysis	SM2320 B		1			394814	04/08/22 18:00	CMT	TAL PIT
		Instrument ID: PCTITRATOR								

Client Sample ID: APMW-3D

Lab Sample ID: 180-136321-13

Date Collected: 04/05/22 13:05

Matrix: Water

Date Received: 04/07/22 11:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			395384	04/14/22 11:25	JRB	TAL PIT
		Instrument ID: INTEGRION								
Total Recoverable	Prep	3005A			25 mL	25 mL	395116	04/12/22 10:54	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395518	04/14/22 18:36	RSK	TAL PIT
		Instrument ID: A								
Total Recoverable	Prep	3005A			25 mL	25 mL	395116	04/12/22 10:54	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		10			395518	04/14/22 18:47	RSK	TAL PIT
		Instrument ID: A								
Total Recoverable	Prep	3005A			25 mL	25 mL	395116	04/12/22 10:54	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395393	04/13/22 23:46	RSK	TAL PIT
		Instrument ID: DORY								
Total/NA	Prep	7470A			50 mL	50 mL	395826	04/18/22 15:13	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			395971	04/19/22 13:25	KFS	TAL PIT
		Instrument ID: HGY								
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	395167	04/12/22 16:52	SNR	TAL PIT
		Instrument ID: ASTORIA2								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	394796	04/08/22 18:53	JCR	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 5310C		1			394685	04/08/22 02:48	CMT	TAL PIT
		Instrument ID: SAM								
Total/NA	Analysis	SM2320 B		1			394814	04/08/22 18:14	CMT	TAL PIT
		Instrument ID: PCTITRATOR								

Client Sample ID: APMW-4D

Lab Sample ID: 180-136321-14

Date Collected: 04/05/22 14:50

Matrix: Water

Date Received: 04/07/22 11:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		25			395384	04/14/22 11:38	JRB	TAL PIT
		Instrument ID: INTEGRION								
Total Recoverable	Prep	3005A			25 mL	25 mL	395116	04/12/22 10:54	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		10			395518	04/14/22 18:58	RSK	TAL PIT
		Instrument ID: A								

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

Client Sample ID: APMW-4D

Lab Sample ID: 180-136321-14

Date Collected: 04/05/22 14:50

Matrix: Water

Date Received: 04/07/22 11:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	395116	04/12/22 10:54	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395393	04/13/22 23:50	RSK	TAL PIT
		Instrument ID: DORY								
Total/NA	Prep	7470A			50 mL	50 mL	395826	04/18/22 15:13	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			395971	04/19/22 13:26	KFS	TAL PIT
		Instrument ID: HGY								
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	395167	04/12/22 16:54	SNR	TAL PIT
		Instrument ID: ASTORIA2								
Total/NA	Analysis	SM 2540C		1	5 mL	100 mL	394796	04/08/22 18:53	JCR	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 5310C		1			394685	04/08/22 04:00	CMT	TAL PIT
		Instrument ID: SAM								
Total/NA	Analysis	SM2320 B		1			394814	04/09/22 01:07	CMT	TAL PIT
		Instrument ID: PCTITRATOR								

Laboratory References:

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

Analyst References:

Lab: TAL PIT

Batch Type: Prep

RGM = Rebecca Manns

RJR = Ron Rosenbaum

Batch Type: Analysis

CMT = Cassandra Tlumac

HEK = Hope Kiesling

JCR = Jessica Rodgers

JRB = James Burzio

KFS = Kelly Shannon

RSK = Robert Kurtz

SNR = Sabra Richart

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

Client Sample ID: APMW-1R

Lab Sample ID: 180-136321-1

Date Collected: 04/04/22 17:30

Matrix: Water

Date Received: 04/07/22 11:10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2500		5.0	3.6	mg/L			04/14/22 21:23	5
Fluoride	0.13	J	1.0	0.13	mg/L			04/14/22 21:23	5
Sulfate	21		5.0	3.8	mg/L			04/14/22 21:23	5
Bromide	15		0.50	0.27	mg/L			04/14/22 21:23	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.016		0.030	0.016	mg/L		04/12/22 10:54	04/13/22 21:58	1
Antimony	<0.00051		0.0020	0.00051	mg/L		04/12/22 10:54	04/13/22 21:58	1
Arsenic	0.00040	J	0.0010	0.00028	mg/L		04/12/22 10:54	04/13/22 21:58	1
Barium	1.6		0.010	0.0031	mg/L		04/12/22 10:54	04/13/22 21:58	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		04/12/22 10:54	04/13/22 21:58	1
Boron	6.6		0.080	0.060	mg/L		04/12/22 10:54	04/13/22 21:58	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/12/22 10:54	04/13/22 21:58	1
Calcium	200		0.50	0.13	mg/L		04/12/22 10:54	04/13/22 21:58	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/12/22 10:54	04/13/22 21:58	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		04/12/22 10:54	04/13/22 21:58	1
Lead	<0.00017		0.0010	0.00017	mg/L		04/12/22 10:54	04/13/22 21:58	1
Lithium	0.023	J B	0.050	0.0083	mg/L		04/12/22 10:54	04/14/22 17:27	10
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/12/22 10:54	04/13/22 21:58	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/12/22 10:54	04/13/22 21:58	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/12/22 10:54	04/13/22 21:58	1
Iron	51		0.050	0.028	mg/L		04/12/22 10:54	04/13/22 21:58	1
Potassium	65		0.50	0.16	mg/L		04/12/22 10:54	04/13/22 21:58	1
Magnesium	68		0.50	0.050	mg/L		04/12/22 10:54	04/13/22 21:58	1
Manganese	0.17		0.0050	0.0013	mg/L		04/12/22 10:54	04/13/22 21:58	1
Sodium	1400		5.0	1.8	mg/L		04/12/22 10:54	04/14/22 17:27	10
Silicon	12		0.50	0.062	mg/L		04/12/22 10:54	04/13/22 21:58	1
Strontium	1.8		0.0050	0.0017	mg/L		04/12/22 10:54	04/13/22 21:58	1
SiO2, Silica	26		1.1	0.15	mg/L		04/12/22 10:54	04/13/22 21:58	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/18/22 15:10	04/19/22 12:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.16	F1	0.10	0.065	mg/L			04/12/22 16:18	1
Total Dissolved Solids	4700		50	50	mg/L			04/08/22 16:01	1
Total Organic Carbon - Duplicates	3.0		1.0	0.51	mg/L			04/12/22 18:17	1
Total Alkalinity as CaCO3 to pH 4.5	320		5.0	5.0	mg/L			04/09/22 01:36	1
Bicarbonate Alkalinity as CaCO3	320		5.0	5.0	mg/L			04/09/22 01:36	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/09/22 01:36	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

Client Sample ID: APMW-2

Lab Sample ID: 180-136321-2

Date Collected: 04/05/22 10:45

Matrix: Water

Date Received: 04/07/22 11:10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2600		5.0	3.6	mg/L			04/14/22 21:50	5
Fluoride	<0.13		1.0	0.13	mg/L			04/14/22 21:50	5
Sulfate	11		5.0	3.8	mg/L			04/14/22 21:50	5
Bromide	14		0.50	0.27	mg/L			04/14/22 21:50	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.016		0.030	0.016	mg/L		04/12/22 10:54	04/13/22 22:12	1
Antimony	<0.00051		0.0020	0.00051	mg/L		04/12/22 10:54	04/13/22 22:12	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		04/12/22 10:54	04/13/22 22:12	1
Barium	3.6		0.010	0.0031	mg/L		04/12/22 10:54	04/13/22 22:12	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		04/12/22 10:54	04/13/22 22:12	1
Boron	3.7		0.080	0.060	mg/L		04/12/22 10:54	04/13/22 22:12	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/12/22 10:54	04/13/22 22:12	1
Calcium	380		0.50	0.13	mg/L		04/12/22 10:54	04/13/22 22:12	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/12/22 10:54	04/13/22 22:12	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		04/12/22 10:54	04/13/22 22:12	1
Lead	0.00022 J		0.0010	0.00017	mg/L		04/12/22 10:54	04/13/22 22:12	1
Lithium	0.037 B		0.0050	0.00083	mg/L		04/12/22 10:54	04/14/22 17:30	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/12/22 10:54	04/13/22 22:12	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/12/22 10:54	04/13/22 22:12	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/12/22 10:54	04/13/22 22:12	1
Iron	130		0.050	0.028	mg/L		04/12/22 10:54	04/13/22 22:12	1
Potassium	38		0.50	0.16	mg/L		04/12/22 10:54	04/13/22 22:12	1
Magnesium	57		0.50	0.050	mg/L		04/12/22 10:54	04/13/22 22:12	1
Manganese	1.2		0.0050	0.0013	mg/L		04/12/22 10:54	04/13/22 22:12	1
Sodium	1100		0.50	0.18	mg/L		04/12/22 10:54	04/13/22 22:12	1
Silicon	16		0.50	0.062	mg/L		04/12/22 10:54	04/13/22 22:12	1
Strontium	3.8		0.0050	0.0017	mg/L		04/12/22 10:54	04/13/22 22:12	1
SiO2, Silica	34		1.1	0.15	mg/L		04/12/22 10:54	04/13/22 22:12	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/18/22 15:10	04/19/22 12:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.069 J		0.10	0.065	mg/L			04/12/22 16:22	1
Total Dissolved Solids	4400		50	50	mg/L			04/08/22 16:01	1
Total Organic Carbon - Duplicates	1.0		1.0	0.51	mg/L			04/07/22 21:58	1
Total Alkalinity as CaCO3 to pH 4.5	32		5.0	5.0	mg/L			04/09/22 20:07	1
Bicarbonate Alkalinity as CaCO3	32		5.0	5.0	mg/L			04/09/22 20:07	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/09/22 20:07	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

Client Sample ID: APMW-3

Lab Sample ID: 180-136321-3

Date Collected: 04/05/22 12:08

Matrix: Water

Date Received: 04/07/22 11:10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9300		25	18	mg/L			04/14/22 22:42	25
Fluoride	<0.65		5.0	0.65	mg/L			04/14/22 22:42	25
Sulfate	1100		25	19	mg/L			04/14/22 22:42	25
Bromide	51		2.5	1.3	mg/L			04/14/22 22:42	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.016		0.030	0.016	mg/L		04/12/22 10:54	04/13/22 22:33	1
Antimony	<0.00051		0.0020	0.00051	mg/L		04/12/22 10:54	04/13/22 22:33	1
Arsenic	0.047		0.0010	0.00028	mg/L		04/12/22 10:54	04/13/22 22:33	1
Barium	0.098		0.010	0.0031	mg/L		04/12/22 10:54	04/13/22 22:33	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		04/12/22 10:54	04/13/22 22:33	1
Boron	6.3		0.080	0.060	mg/L		04/12/22 10:54	04/13/22 22:33	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/12/22 10:54	04/13/22 22:33	1
Calcium	330		0.50	0.13	mg/L		04/12/22 10:54	04/13/22 22:33	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/12/22 10:54	04/13/22 22:33	1
Cobalt	0.0037		0.0025	0.00026	mg/L		04/12/22 10:54	04/13/22 22:33	1
Lead	0.00043	J	0.0010	0.00017	mg/L		04/12/22 10:54	04/13/22 22:33	1
Lithium	0.081	B	0.050	0.0083	mg/L		04/12/22 10:54	04/14/22 17:41	10
Molybdenum	0.071		0.015	0.00061	mg/L		04/12/22 10:54	04/13/22 22:33	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/12/22 10:54	04/13/22 22:33	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/12/22 10:54	04/13/22 22:33	1
Iron	4.0		0.050	0.028	mg/L		04/12/22 10:54	04/13/22 22:33	1
Potassium	180		0.50	0.16	mg/L		04/12/22 10:54	04/13/22 22:33	1
Magnesium	570		0.50	0.050	mg/L		04/12/22 10:54	04/13/22 22:33	1
Manganese	0.25		0.0050	0.0013	mg/L		04/12/22 10:54	04/13/22 22:33	1
Sodium	5200		5.0	1.8	mg/L		04/12/22 10:54	04/14/22 17:41	10
Silicon	7.1		0.50	0.062	mg/L		04/12/22 10:54	04/13/22 22:33	1
Strontium	9.6		0.0050	0.0017	mg/L		04/12/22 10:54	04/13/22 22:33	1
SiO2, Silica	15		1.1	0.15	mg/L		04/12/22 10:54	04/13/22 22:33	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/18/22 15:10	04/19/22 12:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.065		0.10	0.065	mg/L			04/12/22 16:24	1
Total Dissolved Solids	16000		200	200	mg/L			04/08/22 18:53	1
Total Organic Carbon - Duplicates	1.0		1.0	0.51	mg/L			04/07/22 22:11	1
Total Alkalinity as CaCO3 to pH 4.5	280		5.0	5.0	mg/L			04/09/22 01:52	1
Bicarbonate Alkalinity as CaCO3	280		5.0	5.0	mg/L			04/09/22 01:52	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/09/22 01:52	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

Client Sample ID: DUP-01

Lab Sample ID: 180-136321-4

Date Collected: 04/04/22 16:30

Matrix: Water

Date Received: 04/07/22 11:10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2500		5.0	3.6	mg/L			04/14/22 23:07	5
Fluoride	<0.13		1.0	0.13	mg/L			04/14/22 23:07	5
Sulfate	20		5.0	3.8	mg/L			04/14/22 23:07	5
Bromide	14		0.50	0.27	mg/L			04/14/22 23:07	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.016		0.030	0.016	mg/L		04/12/22 10:54	04/13/22 22:47	1
Antimony	<0.00051		0.0020	0.00051	mg/L		04/12/22 10:54	04/13/22 22:47	1
Arsenic	0.00055	J	0.0010	0.00028	mg/L		04/12/22 10:54	04/13/22 22:47	1
Barium	1.6		0.010	0.0031	mg/L		04/12/22 10:54	04/13/22 22:47	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		04/12/22 10:54	04/13/22 22:47	1
Boron	6.7		0.080	0.060	mg/L		04/12/22 10:54	04/13/22 22:47	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/12/22 10:54	04/13/22 22:47	1
Calcium	210		0.50	0.13	mg/L		04/12/22 10:54	04/13/22 22:47	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/12/22 10:54	04/13/22 22:47	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		04/12/22 10:54	04/13/22 22:47	1
Lead	0.00017	J	0.0010	0.00017	mg/L		04/12/22 10:54	04/13/22 22:47	1
Lithium	0.020	J B	0.050	0.0083	mg/L		04/12/22 10:54	04/14/22 17:45	10
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/12/22 10:54	04/13/22 22:47	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/12/22 10:54	04/13/22 22:47	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/12/22 10:54	04/13/22 22:47	1
Iron	52		0.050	0.028	mg/L		04/12/22 10:54	04/13/22 22:47	1
Potassium	67		0.50	0.16	mg/L		04/12/22 10:54	04/13/22 22:47	1
Magnesium	69		0.50	0.050	mg/L		04/12/22 10:54	04/13/22 22:47	1
Manganese	0.17		0.0050	0.0013	mg/L		04/12/22 10:54	04/13/22 22:47	1
Sodium	1400		5.0	1.8	mg/L		04/12/22 10:54	04/14/22 17:45	10
Silicon	12		0.50	0.062	mg/L		04/12/22 10:54	04/13/22 22:47	1
Strontium	1.9		0.0050	0.0017	mg/L		04/12/22 10:54	04/13/22 22:47	1
SiO2, Silica	26		1.1	0.15	mg/L		04/12/22 10:54	04/13/22 22:47	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/18/22 15:10	04/19/22 12:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.065		0.10	0.065	mg/L			04/12/22 16:26	1
Total Dissolved Solids	3500		50	50	mg/L			04/08/22 16:01	1
Total Organic Carbon - Duplicates	3.2		1.0	0.51	mg/L			04/12/22 18:31	1
Total Alkalinity as CaCO3 to pH 4.5	320		5.0	5.0	mg/L			04/09/22 01:43	1
Bicarbonate Alkalinity as CaCO3	320		5.0	5.0	mg/L			04/09/22 01:43	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/09/22 01:43	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

Client Sample ID: DUP-02
Date Collected: 04/05/22 09:45
Date Received: 04/07/22 11:10

Lab Sample ID: 180-136321-5
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2500		5.0	3.6	mg/L			04/14/22 23:31	5
Fluoride	<0.13		1.0	0.13	mg/L			04/14/22 23:31	5
Sulfate	12		5.0	3.8	mg/L			04/14/22 23:31	5
Bromide	14		0.50	0.27	mg/L			04/14/22 23:31	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.016		0.030	0.016	mg/L		04/12/22 10:54	04/13/22 23:01	1
Antimony	<0.00051		0.0020	0.00051	mg/L		04/12/22 10:54	04/13/22 23:01	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		04/12/22 10:54	04/13/22 23:01	1
Barium	3.5		0.010	0.0031	mg/L		04/12/22 10:54	04/13/22 23:01	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		04/12/22 10:54	04/13/22 23:01	1
Boron	3.7		0.080	0.060	mg/L		04/12/22 10:54	04/13/22 23:01	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/12/22 10:54	04/13/22 23:01	1
Calcium	380		0.50	0.13	mg/L		04/12/22 10:54	04/13/22 23:01	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/12/22 10:54	04/13/22 23:01	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		04/12/22 10:54	04/13/22 23:01	1
Lead	0.00018	J	0.0010	0.00017	mg/L		04/12/22 10:54	04/13/22 23:01	1
Lithium	0.036	B	0.0050	0.00083	mg/L		04/12/22 10:54	04/14/22 17:48	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/12/22 10:54	04/13/22 23:01	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/12/22 10:54	04/13/22 23:01	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/12/22 10:54	04/13/22 23:01	1
Iron	140		0.050	0.028	mg/L		04/12/22 10:54	04/13/22 23:01	1
Potassium	38		0.50	0.16	mg/L		04/12/22 10:54	04/13/22 23:01	1
Magnesium	56		0.50	0.050	mg/L		04/12/22 10:54	04/13/22 23:01	1
Manganese	1.2		0.0050	0.0013	mg/L		04/12/22 10:54	04/13/22 23:01	1
Sodium	1000		0.50	0.18	mg/L		04/12/22 10:54	04/13/22 23:01	1
Silicon	15		0.50	0.062	mg/L		04/12/22 10:54	04/13/22 23:01	1
Strontium	3.8		0.0050	0.0017	mg/L		04/12/22 10:54	04/13/22 23:01	1
SiO2, Silica	33		1.1	0.15	mg/L		04/12/22 10:54	04/13/22 23:01	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/18/22 15:13	04/19/22 13:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.085	J	0.10	0.065	mg/L			04/12/22 16:27	1
Total Dissolved Solids	4100		50	50	mg/L			04/08/22 18:53	1
Total Organic Carbon - Duplicates	1.1		1.0	0.51	mg/L			04/07/22 22:38	1
Total Alkalinity as CaCO3 to pH 4.5	39		5.0	5.0	mg/L			04/09/22 20:15	1
Bicarbonate Alkalinity as CaCO3	39		5.0	5.0	mg/L			04/09/22 20:15	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/09/22 20:15	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

Client Sample ID: FB-01

Lab Sample ID: 180-136321-6

Date Collected: 04/05/22 14:55

Matrix: Water

Date Received: 04/07/22 11:10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/14/22 23:56	1
Fluoride	<0.026		0.20	0.026	mg/L			04/14/22 23:56	1
Sulfate	<0.76		1.0	0.76	mg/L			04/14/22 23:56	1
Bromide	<0.053		0.10	0.053	mg/L			04/14/22 23:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.016		0.030	0.016	mg/L		04/12/22 10:54	04/13/22 23:15	1
Antimony	<0.00051		0.0020	0.00051	mg/L		04/12/22 10:54	04/13/22 23:15	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		04/12/22 10:54	04/13/22 23:15	1
Barium	<0.0031		0.010	0.0031	mg/L		04/12/22 10:54	04/13/22 23:15	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		04/12/22 10:54	04/13/22 23:15	1
Boron	<0.060		0.080	0.060	mg/L		04/12/22 10:54	04/13/22 23:15	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/12/22 10:54	04/13/22 23:15	1
Calcium	<0.13		0.50	0.13	mg/L		04/12/22 10:54	04/13/22 23:15	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/12/22 10:54	04/13/22 23:15	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		04/12/22 10:54	04/13/22 23:15	1
Lead	0.00017	J	0.0010	0.00017	mg/L		04/12/22 10:54	04/13/22 23:15	1
Lithium	<0.00083		0.0050	0.00083	mg/L		04/12/22 10:54	04/14/22 18:03	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/12/22 10:54	04/13/22 23:15	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/12/22 10:54	04/13/22 23:15	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/12/22 10:54	04/13/22 23:15	1
Iron	<0.028		0.050	0.028	mg/L		04/12/22 10:54	04/13/22 23:15	1
Potassium	<0.16		0.50	0.16	mg/L		04/12/22 10:54	04/13/22 23:15	1
Magnesium	<0.050		0.50	0.050	mg/L		04/12/22 10:54	04/13/22 23:15	1
Manganese	<0.0013		0.0050	0.0013	mg/L		04/12/22 10:54	04/13/22 23:15	1
Sodium	0.32	J	0.50	0.18	mg/L		04/12/22 10:54	04/13/22 23:15	1
Silicon	<0.062		0.50	0.062	mg/L		04/12/22 10:54	04/13/22 23:15	1
Strontium	<0.0017		0.0050	0.0017	mg/L		04/12/22 10:54	04/13/22 23:15	1
SiO2, Silica	<0.15		1.1	0.15	mg/L		04/12/22 10:54	04/13/22 23:15	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/18/22 15:13	04/19/22 13:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.065		0.10	0.065	mg/L			04/12/22 16:33	1
Total Dissolved Solids	<10		10	10	mg/L			04/08/22 18:53	1
Total Organic Carbon - Duplicates	<0.51		1.0	0.51	mg/L			04/07/22 22:50	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0	*	5.0	5.0	mg/L			04/08/22 16:53	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/08/22 16:53	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/08/22 16:53	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

Client Sample ID: APMW-10D

Lab Sample ID: 180-136321-7

Date Collected: 04/05/22 16:13

Matrix: Water

Date Received: 04/07/22 11:10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.1		1.0	0.71	mg/L			04/14/22 10:58	1
Fluoride	0.19	J	0.20	0.026	mg/L			04/14/22 10:58	1
Sulfate	5.2		1.0	0.76	mg/L			04/14/22 10:58	1
Bromide	<0.053		0.10	0.053	mg/L			04/14/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.079		0.030	0.016	mg/L		04/12/22 10:54	04/13/22 23:18	1
Antimony	<0.00051		0.0020	0.00051	mg/L		04/12/22 10:54	04/13/22 23:18	1
Arsenic	0.016		0.0010	0.00028	mg/L		04/12/22 10:54	04/13/22 23:18	1
Barium	0.027		0.010	0.0031	mg/L		04/12/22 10:54	04/13/22 23:18	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		04/12/22 10:54	04/13/22 23:18	1
Boron	0.15		0.080	0.060	mg/L		04/12/22 10:54	04/13/22 23:18	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/12/22 10:54	04/13/22 23:18	1
Calcium	2.5		0.50	0.13	mg/L		04/12/22 10:54	04/13/22 23:18	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/12/22 10:54	04/13/22 23:18	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		04/12/22 10:54	04/13/22 23:18	1
Lead	0.00058	J	0.0010	0.00017	mg/L		04/12/22 10:54	04/13/22 23:18	1
Lithium	0.012	B	0.0050	0.00083	mg/L		04/12/22 10:54	04/14/22 18:07	1
Molybdenum	0.0058	J	0.015	0.00061	mg/L		04/12/22 10:54	04/13/22 23:18	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/12/22 10:54	04/13/22 23:18	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/12/22 10:54	04/13/22 23:18	1
Iron	0.069		0.050	0.028	mg/L		04/12/22 10:54	04/13/22 23:18	1
Potassium	1.6		0.50	0.16	mg/L		04/12/22 10:54	04/13/22 23:18	1
Magnesium	0.34	J	0.50	0.050	mg/L		04/12/22 10:54	04/13/22 23:18	1
Manganese	0.011		0.0050	0.0013	mg/L		04/12/22 10:54	04/13/22 23:18	1
Sodium	56		0.50	0.18	mg/L		04/12/22 10:54	04/13/22 23:18	1
Silicon	7.7		0.50	0.062	mg/L		04/12/22 10:54	04/13/22 23:18	1
Strontium	0.052		0.0050	0.0017	mg/L		04/12/22 10:54	04/13/22 23:18	1
SiO2, Silica	16		1.1	0.15	mg/L		04/12/22 10:54	04/13/22 23:18	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/18/22 15:13	04/19/22 13:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.065		0.10	0.065	mg/L			04/12/22 16:35	1
Total Dissolved Solids	140		10	10	mg/L			04/08/22 18:53	1
Total Organic Carbon - Duplicates	<0.51		1.0	0.51	mg/L			04/08/22 00:02	1
Total Alkalinity as CaCO3 to pH 4.5	110		5.0	5.0	mg/L			04/09/22 17:41	1
Bicarbonate Alkalinity as CaCO3	100		5.0	5.0	mg/L			04/09/22 17:41	1
Carbonate Alkalinity as CaCO3	8.2		5.0	5.0	mg/L			04/09/22 17:41	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

Client Sample ID: EB-01

Lab Sample ID: 180-136321-8

Date Collected: 04/05/22 16:28

Matrix: Water

Date Received: 04/07/22 11:10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/19/22 10:31	1
Fluoride	0.035	J	0.20	0.026	mg/L			04/19/22 10:31	1
Sulfate	<0.76		1.0	0.76	mg/L			04/19/22 10:31	1
Bromide	<0.053		0.10	0.053	mg/L			04/19/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.016		0.030	0.016	mg/L		04/12/22 10:54	04/13/22 23:22	1
Antimony	<0.00051		0.0020	0.00051	mg/L		04/12/22 10:54	04/13/22 23:22	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		04/12/22 10:54	04/13/22 23:22	1
Barium	<0.0031		0.010	0.0031	mg/L		04/12/22 10:54	04/13/22 23:22	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		04/12/22 10:54	04/13/22 23:22	1
Boron	<0.060		0.080	0.060	mg/L		04/12/22 10:54	04/13/22 23:22	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/12/22 10:54	04/13/22 23:22	1
Calcium	<0.13		0.50	0.13	mg/L		04/12/22 10:54	04/13/22 23:22	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/12/22 10:54	04/13/22 23:22	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		04/12/22 10:54	04/13/22 23:22	1
Lead	<0.00017		0.0010	0.00017	mg/L		04/12/22 10:54	04/13/22 23:22	1
Lithium	<0.00083		0.0050	0.00083	mg/L		04/12/22 10:54	04/14/22 18:18	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/12/22 10:54	04/13/22 23:22	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/12/22 10:54	04/13/22 23:22	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/12/22 10:54	04/13/22 23:22	1
Iron	<0.028		0.050	0.028	mg/L		04/12/22 10:54	04/13/22 23:22	1
Potassium	<0.16		0.50	0.16	mg/L		04/12/22 10:54	04/13/22 23:22	1
Magnesium	<0.050		0.50	0.050	mg/L		04/12/22 10:54	04/13/22 23:22	1
Manganese	<0.0013		0.0050	0.0013	mg/L		04/12/22 10:54	04/13/22 23:22	1
Sodium	<0.18		0.50	0.18	mg/L		04/12/22 10:54	04/13/22 23:22	1
Silicon	<0.062		0.50	0.062	mg/L		04/12/22 10:54	04/13/22 23:22	1
Strontium	<0.0017		0.0050	0.0017	mg/L		04/12/22 10:54	04/13/22 23:22	1
SiO2, Silica	<0.15		1.1	0.15	mg/L		04/12/22 10:54	04/13/22 23:22	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/18/22 15:13	04/19/22 13:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.065		0.10	0.065	mg/L			04/12/22 16:37	1
Total Dissolved Solids	<10		10	10	mg/L			04/08/22 18:53	1
Total Organic Carbon - Duplicates	<0.51		1.0	0.51	mg/L			04/08/22 00:14	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0	*	5.0	5.0	mg/L			04/08/22 17:07	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/08/22 17:07	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/08/22 17:07	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

Client Sample ID: APMW-10

Lab Sample ID: 180-136321-9

Date Collected: 04/05/22 10:54

Matrix: Water

Date Received: 04/07/22 11:10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	760		2.5	1.8	mg/L			04/19/22 10:45	2.5
Fluoride	0.82		0.50	0.065	mg/L			04/19/22 10:45	2.5
Sulfate	7.5		2.5	1.9	mg/L			04/19/22 10:45	2.5
Bromide	2.6		0.25	0.13	mg/L			04/19/22 10:45	2.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.029	J	0.030	0.016	mg/L		04/12/22 10:54	04/13/22 23:25	1
Antimony	<0.00051		0.0020	0.00051	mg/L		04/12/22 10:54	04/13/22 23:25	1
Arsenic	0.039		0.0010	0.00028	mg/L		04/12/22 10:54	04/13/22 23:25	1
Barium	0.37		0.010	0.0031	mg/L		04/12/22 10:54	04/13/22 23:25	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		04/12/22 10:54	04/13/22 23:25	1
Boron	2.1		0.080	0.060	mg/L		04/12/22 10:54	04/13/22 23:25	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/12/22 10:54	04/13/22 23:25	1
Calcium	42		0.50	0.13	mg/L		04/12/22 10:54	04/13/22 23:25	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/12/22 10:54	04/13/22 23:25	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		04/12/22 10:54	04/13/22 23:25	1
Lead	0.00019	J	0.0010	0.00017	mg/L		04/12/22 10:54	04/13/22 23:25	1
Lithium	0.012	B	0.0050	0.00083	mg/L		04/12/22 10:54	04/14/22 18:21	1
Molybdenum	0.043		0.015	0.00061	mg/L		04/12/22 10:54	04/13/22 23:25	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/12/22 10:54	04/13/22 23:25	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/12/22 10:54	04/13/22 23:25	1
Iron	4.6		0.050	0.028	mg/L		04/12/22 10:54	04/13/22 23:25	1
Potassium	27		0.50	0.16	mg/L		04/12/22 10:54	04/13/22 23:25	1
Magnesium	43		0.50	0.050	mg/L		04/12/22 10:54	04/13/22 23:25	1
Manganese	0.092		0.0050	0.0013	mg/L		04/12/22 10:54	04/13/22 23:25	1
Sodium	570		0.50	0.18	mg/L		04/12/22 10:54	04/13/22 23:25	1
Silicon	6.8		0.50	0.062	mg/L		04/12/22 10:54	04/13/22 23:25	1
Strontium	0.48		0.0050	0.0017	mg/L		04/12/22 10:54	04/13/22 23:25	1
SiO2, Silica	15		1.1	0.15	mg/L		04/12/22 10:54	04/13/22 23:25	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/18/22 15:13	04/19/22 13:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.065		0.10	0.065	mg/L			04/12/22 16:38	1
Total Dissolved Solids	1700		20	20	mg/L			04/08/22 18:53	1
Total Organic Carbon - Duplicates	4.2		1.0	0.51	mg/L			04/08/22 00:28	1
Total Alkalinity as CaCO3 to pH 4.5	430		5.0	5.0	mg/L			04/09/22 01:27	1
Bicarbonate Alkalinity as CaCO3	430		5.0	5.0	mg/L			04/09/22 01:27	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/09/22 01:27	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

Client Sample ID: APMW-11

Lab Sample ID: 180-136321-10

Date Collected: 04/04/22 12:20

Matrix: Water

Date Received: 04/07/22 11:10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.4		1.0	0.71	mg/L			04/19/22 09:37	1
Fluoride	0.062	J	0.20	0.026	mg/L			04/19/22 09:37	1
Sulfate	0.91	J	1.0	0.76	mg/L			04/19/22 09:37	1
Bromide	<0.053		0.10	0.053	mg/L			04/19/22 09:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.016		0.030	0.016	mg/L		04/12/22 10:54	04/13/22 23:29	1
Antimony	<0.00051		0.0020	0.00051	mg/L		04/12/22 10:54	04/13/22 23:29	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		04/12/22 10:54	04/13/22 23:29	1
Barium	0.037		0.010	0.0031	mg/L		04/12/22 10:54	04/13/22 23:29	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		04/12/22 10:54	04/13/22 23:29	1
Boron	0.11		0.080	0.060	mg/L		04/12/22 10:54	04/13/22 23:29	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/12/22 10:54	04/13/22 23:29	1
Calcium	11		0.50	0.13	mg/L		04/12/22 10:54	04/13/22 23:29	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/12/22 10:54	04/13/22 23:29	1
Cobalt	0.00063	J	0.0025	0.00026	mg/L		04/12/22 10:54	04/13/22 23:29	1
Lead	0.00063	J	0.0010	0.00017	mg/L		04/12/22 10:54	04/13/22 23:29	1
Lithium	0.011	B	0.0050	0.00083	mg/L		04/12/22 10:54	04/14/22 18:25	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/12/22 10:54	04/13/22 23:29	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/12/22 10:54	04/13/22 23:29	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/12/22 10:54	04/13/22 23:29	1
Iron	1.9		0.050	0.028	mg/L		04/12/22 10:54	04/13/22 23:29	1
Potassium	1.3		0.50	0.16	mg/L		04/12/22 10:54	04/13/22 23:29	1
Magnesium	1.5		0.50	0.050	mg/L		04/12/22 10:54	04/13/22 23:29	1
Manganese	0.039		0.0050	0.0013	mg/L		04/12/22 10:54	04/13/22 23:29	1
Sodium	7.6		0.50	0.18	mg/L		04/12/22 10:54	04/13/22 23:29	1
Silicon	13		0.50	0.062	mg/L		04/12/22 10:54	04/13/22 23:29	1
Strontium	0.041		0.0050	0.0017	mg/L		04/12/22 10:54	04/13/22 23:29	1
SiO2, Silica	28		1.1	0.15	mg/L		04/12/22 10:54	04/13/22 23:29	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/18/22 15:13	04/19/22 13:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.065		0.10	0.065	mg/L			04/12/22 16:40	1
Total Dissolved Solids	78		10	10	mg/L			04/08/22 18:53	1
Total Organic Carbon - Duplicates	<0.51		1.0	0.51	mg/L			04/08/22 02:09	1
Total Alkalinity as CaCO3 to pH 4.5	38	H	5.0	5.0	mg/L			04/20/22 10:54	1
Bicarbonate Alkalinity as CaCO3	38	H	5.0	5.0	mg/L			04/20/22 10:54	1
Carbonate Alkalinity as CaCO3	<5.0	H	5.0	5.0	mg/L			04/20/22 10:54	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

Client Sample ID: APMW-12

Lab Sample ID: 180-136321-11

Date Collected: 04/04/22 13:40

Matrix: Water

Date Received: 04/07/22 11:10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14		1.0	0.71	mg/L			04/14/22 11:11	1
Fluoride	0.051	J	0.20	0.026	mg/L			04/14/22 11:11	1
Sulfate	1.3		1.0	0.76	mg/L			04/14/22 11:11	1
Bromide	<0.053		0.10	0.053	mg/L			04/14/22 11:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.016		0.030	0.016	mg/L		04/12/22 10:54	04/13/22 23:32	1
Antimony	<0.00051		0.0020	0.00051	mg/L		04/12/22 10:54	04/13/22 23:32	1
Arsenic	0.00044	J	0.0010	0.00028	mg/L		04/12/22 10:54	04/13/22 23:32	1
Barium	0.062		0.010	0.0031	mg/L		04/12/22 10:54	04/13/22 23:32	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		04/12/22 10:54	04/13/22 23:32	1
Boron	0.082		0.080	0.060	mg/L		04/12/22 10:54	04/13/22 23:32	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/12/22 10:54	04/13/22 23:32	1
Calcium	12		0.50	0.13	mg/L		04/12/22 10:54	04/13/22 23:32	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/12/22 10:54	04/13/22 23:32	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		04/12/22 10:54	04/13/22 23:32	1
Lead	<0.00017		0.0010	0.00017	mg/L		04/12/22 10:54	04/13/22 23:32	1
Lithium	0.018	B	0.0050	0.00083	mg/L		04/12/22 10:54	04/14/22 18:29	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/12/22 10:54	04/13/22 23:32	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/12/22 10:54	04/13/22 23:32	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/12/22 10:54	04/13/22 23:32	1
Iron	3.6		0.050	0.028	mg/L		04/12/22 10:54	04/13/22 23:32	1
Potassium	1.8		0.50	0.16	mg/L		04/12/22 10:54	04/13/22 23:32	1
Magnesium	2.5		0.50	0.050	mg/L		04/12/22 10:54	04/13/22 23:32	1
Manganese	0.096		0.0050	0.0013	mg/L		04/12/22 10:54	04/13/22 23:32	1
Sodium	16		0.50	0.18	mg/L		04/12/22 10:54	04/13/22 23:32	1
Silicon	24		5.0	0.62	mg/L		04/12/22 10:54	04/14/22 18:39	10
Strontium	0.060		0.0050	0.0017	mg/L		04/12/22 10:54	04/13/22 23:32	1
SiO2, Silica	51		11	1.5	mg/L		04/12/22 10:54	04/14/22 18:39	10

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/18/22 15:13	04/19/22 13:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.065		0.10	0.065	mg/L			04/12/22 16:41	1
Total Dissolved Solids	120		10	10	mg/L			04/08/22 16:01	1
Total Organic Carbon - Duplicates	<0.51		1.0	0.51	mg/L			04/08/22 02:22	1
Total Alkalinity as CaCO3 to pH 4.5	57		5.0	5.0	mg/L			04/09/22 00:46	1
Bicarbonate Alkalinity as CaCO3	57		5.0	5.0	mg/L			04/09/22 00:46	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/09/22 00:46	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

Client Sample ID: APMW-2D

Lab Sample ID: 180-136321-12

Date Collected: 04/05/22 09:38

Matrix: Water

Date Received: 04/07/22 11:10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.9		1.0	0.71	mg/L			04/19/22 12:27	1
Fluoride	0.21		0.20	0.026	mg/L			04/19/22 12:27	1
Sulfate	3.9		1.0	0.76	mg/L			04/19/22 12:27	1
Bromide	<0.053		0.10	0.053	mg/L			04/19/22 12:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.044		0.030	0.016	mg/L		04/12/22 10:54	04/13/22 23:43	1
Antimony	<0.00051		0.0020	0.00051	mg/L		04/12/22 10:54	04/13/22 23:43	1
Arsenic	0.0029		0.0010	0.00028	mg/L		04/12/22 10:54	04/13/22 23:43	1
Barium	0.049		0.010	0.0031	mg/L		04/12/22 10:54	04/13/22 23:43	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		04/12/22 10:54	04/13/22 23:43	1
Boron	0.11		0.080	0.060	mg/L		04/12/22 10:54	04/13/22 23:43	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/12/22 10:54	04/13/22 23:43	1
Calcium	3.3		0.50	0.13	mg/L		04/12/22 10:54	04/13/22 23:43	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/12/22 10:54	04/13/22 23:43	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		04/12/22 10:54	04/13/22 23:43	1
Lead	0.00045	J	0.0010	0.00017	mg/L		04/12/22 10:54	04/13/22 23:43	1
Lithium	0.010	B	0.0050	0.00083	mg/L		04/12/22 10:54	04/14/22 18:32	1
Molybdenum	0.0011	J	0.015	0.00061	mg/L		04/12/22 10:54	04/13/22 23:43	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/12/22 10:54	04/13/22 23:43	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/12/22 10:54	04/13/22 23:43	1
Iron	0.31		0.050	0.028	mg/L		04/12/22 10:54	04/13/22 23:43	1
Potassium	1.9		0.50	0.16	mg/L		04/12/22 10:54	04/13/22 23:43	1
Magnesium	1.0		0.50	0.050	mg/L		04/12/22 10:54	04/13/22 23:43	1
Manganese	0.12		0.0050	0.0013	mg/L		04/12/22 10:54	04/13/22 23:43	1
Sodium	43		0.50	0.18	mg/L		04/12/22 10:54	04/13/22 23:43	1
Silicon	23		5.0	0.62	mg/L		04/12/22 10:54	04/14/22 18:43	10
Strontium	0.050		0.0050	0.0017	mg/L		04/12/22 10:54	04/13/22 23:43	1
SiO2, Silica	48		11	1.5	mg/L		04/12/22 10:54	04/14/22 18:43	10

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/18/22 15:13	04/19/22 13:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.065		0.10	0.065	mg/L			04/12/22 16:46	1
Total Dissolved Solids	140		10	10	mg/L			04/08/22 16:01	1
Total Organic Carbon - Duplicates	<0.51		1.0	0.51	mg/L			04/08/22 02:35	1
Total Alkalinity as CaCO3 to pH 4.5	88		5.0	5.0	mg/L			04/08/22 18:00	1
Bicarbonate Alkalinity as CaCO3	88		5.0	5.0	mg/L			04/08/22 18:00	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/08/22 18:00	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

Client Sample ID: APMW-3D

Lab Sample ID: 180-136321-13

Date Collected: 04/05/22 13:05

Matrix: Water

Date Received: 04/07/22 11:10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15		1.0	0.71	mg/L			04/14/22 11:25	1
Fluoride	0.13	J	0.20	0.026	mg/L			04/14/22 11:25	1
Sulfate	6.6		1.0	0.76	mg/L			04/14/22 11:25	1
Bromide	<0.053		0.10	0.053	mg/L			04/14/22 11:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.016		0.030	0.016	mg/L		04/12/22 10:54	04/13/22 23:46	1
Antimony	<0.00051		0.0020	0.00051	mg/L		04/12/22 10:54	04/13/22 23:46	1
Arsenic	0.0028		0.0010	0.00028	mg/L		04/12/22 10:54	04/13/22 23:46	1
Barium	0.18		0.010	0.0031	mg/L		04/12/22 10:54	04/13/22 23:46	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		04/12/22 10:54	04/13/22 23:46	1
Boron	0.091		0.080	0.060	mg/L		04/12/22 10:54	04/13/22 23:46	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/12/22 10:54	04/13/22 23:46	1
Calcium	10		0.50	0.13	mg/L		04/12/22 10:54	04/13/22 23:46	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/12/22 10:54	04/13/22 23:46	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		04/12/22 10:54	04/13/22 23:46	1
Lead	<0.00017		0.0010	0.00017	mg/L		04/12/22 10:54	04/13/22 23:46	1
Lithium	0.014	B	0.0050	0.00083	mg/L		04/12/22 10:54	04/14/22 18:36	1
Molybdenum	0.00070	J	0.015	0.00061	mg/L		04/12/22 10:54	04/13/22 23:46	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/12/22 10:54	04/13/22 23:46	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/12/22 10:54	04/13/22 23:46	1
Iron	1.8		0.050	0.028	mg/L		04/12/22 10:54	04/13/22 23:46	1
Potassium	2.5		0.50	0.16	mg/L		04/12/22 10:54	04/13/22 23:46	1
Magnesium	3.3		0.50	0.050	mg/L		04/12/22 10:54	04/13/22 23:46	1
Manganese	0.15		0.0050	0.0013	mg/L		04/12/22 10:54	04/13/22 23:46	1
Sodium	36		0.50	0.18	mg/L		04/12/22 10:54	04/13/22 23:46	1
Silicon	25		5.0	0.62	mg/L		04/12/22 10:54	04/14/22 18:47	10
Strontium	0.28		0.0050	0.0017	mg/L		04/12/22 10:54	04/13/22 23:46	1
SiO2, Silica	54		11	1.5	mg/L		04/12/22 10:54	04/14/22 18:47	10

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/18/22 15:13	04/19/22 13:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.065		0.10	0.065	mg/L			04/12/22 16:52	1
Total Dissolved Solids	160		10	10	mg/L			04/08/22 18:53	1
Total Organic Carbon - Duplicates	<0.51		1.0	0.51	mg/L			04/08/22 02:48	1
Total Alkalinity as CaCO3 to pH 4.5	89		5.0	5.0	mg/L			04/08/22 18:14	1
Bicarbonate Alkalinity as CaCO3	89		5.0	5.0	mg/L			04/08/22 18:14	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/08/22 18:14	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

Client Sample ID: APMW-4D

Lab Sample ID: 180-136321-14

Date Collected: 04/05/22 14:50

Matrix: Water

Date Received: 04/07/22 11:10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8200		25	18	mg/L			04/14/22 11:38	25
Fluoride	<0.65		5.0	0.65	mg/L			04/14/22 11:38	25
Sulfate	720		25	19	mg/L			04/14/22 11:38	25
Bromide	32		2.5	1.3	mg/L			04/14/22 11:38	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.016		0.030	0.016	mg/L		04/12/22 10:54	04/13/22 23:50	1
Antimony	<0.00051		0.0020	0.00051	mg/L		04/12/22 10:54	04/13/22 23:50	1
Arsenic	0.0044		0.0010	0.00028	mg/L		04/12/22 10:54	04/13/22 23:50	1
Barium	0.097		0.010	0.0031	mg/L		04/12/22 10:54	04/13/22 23:50	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		04/12/22 10:54	04/13/22 23:50	1
Boron	4.0		0.080	0.060	mg/L		04/12/22 10:54	04/13/22 23:50	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/12/22 10:54	04/13/22 23:50	1
Calcium	230		0.50	0.13	mg/L		04/12/22 10:54	04/13/22 23:50	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/12/22 10:54	04/13/22 23:50	1
Cobalt	0.0055		0.0025	0.00026	mg/L		04/12/22 10:54	04/13/22 23:50	1
Lead	0.00029	J	0.0010	0.00017	mg/L		04/12/22 10:54	04/13/22 23:50	1
Lithium	0.073	B	0.050	0.0083	mg/L		04/12/22 10:54	04/14/22 18:58	10
Molybdenum	0.25		0.015	0.00061	mg/L		04/12/22 10:54	04/13/22 23:50	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/12/22 10:54	04/13/22 23:50	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/12/22 10:54	04/13/22 23:50	1
Iron	8.6		0.050	0.028	mg/L		04/12/22 10:54	04/13/22 23:50	1
Potassium	170		0.50	0.16	mg/L		04/12/22 10:54	04/13/22 23:50	1
Magnesium	470		0.50	0.050	mg/L		04/12/22 10:54	04/13/22 23:50	1
Manganese	0.27		0.0050	0.0013	mg/L		04/12/22 10:54	04/13/22 23:50	1
Sodium	4600		5.0	1.8	mg/L		04/12/22 10:54	04/14/22 18:58	10
Silicon	9.5		0.50	0.062	mg/L		04/12/22 10:54	04/13/22 23:50	1
Strontium	4.8		0.0050	0.0017	mg/L		04/12/22 10:54	04/13/22 23:50	1
SiO2, Silica	20		1.1	0.15	mg/L		04/12/22 10:54	04/13/22 23:50	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/18/22 15:13	04/19/22 13:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.065		0.10	0.065	mg/L			04/12/22 16:54	1
Total Dissolved Solids	14000		200	200	mg/L			04/08/22 18:53	1
Total Organic Carbon - Duplicates	1.4		1.0	0.51	mg/L			04/08/22 04:00	1
Total Alkalinity as CaCO3 to pH 4.5	400		5.0	5.0	mg/L			04/09/22 01:07	1
Bicarbonate Alkalinity as CaCO3	400		5.0	5.0	mg/L			04/09/22 01:07	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/09/22 01:07	1

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 180-395384/7
Matrix: Water
Analysis Batch: 395384

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/14/22 10:17	1
Fluoride	<0.026		0.20	0.026	mg/L			04/14/22 10:17	1
Sulfate	<0.76		1.0	0.76	mg/L			04/14/22 10:17	1
Bromide	<0.053		0.10	0.053	mg/L			04/14/22 10:17	1

Lab Sample ID: LCS 180-395384/6
Matrix: Water
Analysis Batch: 395384

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	50.1		mg/L		100	90 - 110
Fluoride	2.50	2.68		mg/L		107	90 - 110
Sulfate	50.0	50.0		mg/L		100	90 - 110
Bromide	10.0	10.3		mg/L		103	90 - 110

Lab Sample ID: MB 180-395439/7
Matrix: Water
Analysis Batch: 395439

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/14/22 14:42	1
Fluoride	<0.026		0.20	0.026	mg/L			04/14/22 14:42	1
Sulfate	<0.76		1.0	0.76	mg/L			04/14/22 14:42	1
Bromide	<0.053		0.10	0.053	mg/L			04/14/22 14:42	1

Lab Sample ID: LCS 180-395439/5
Matrix: Water
Analysis Batch: 395439

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	50.0		mg/L		100	90 - 110
Fluoride	2.50	2.59		mg/L		104	90 - 110
Sulfate	50.0	51.1		mg/L		102	90 - 110
Bromide	10.0	10.2		mg/L		102	90 - 110

Lab Sample ID: MB 180-395869/7
Matrix: Water
Analysis Batch: 395869

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/19/22 09:24	1
Fluoride	<0.026		0.20	0.026	mg/L			04/19/22 09:24	1
Sulfate	<0.76		1.0	0.76	mg/L			04/19/22 09:24	1
Bromide	<0.053		0.10	0.053	mg/L			04/19/22 09:24	1

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 180-395869/6
Matrix: Water
Analysis Batch: 395869

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	50.0		mg/L		100	90 - 110
Fluoride	2.50	2.42		mg/L		97	90 - 110
Sulfate	50.0	50.3		mg/L		101	90 - 110
Bromide	10.0	10.6		mg/L		106	90 - 110

Lab Sample ID: 180-136321-10 MS
Matrix: Water
Analysis Batch: 395869

Client Sample ID: APMW-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	8.4		50.0	58.4		mg/L		100	90 - 110
Fluoride	0.062	J	2.50	2.68		mg/L		105	90 - 110
Sulfate	0.91	J	50.0	51.1		mg/L		100	90 - 110
Bromide	<0.053		10.0	10.4		mg/L		104	90 - 110

Lab Sample ID: 180-136321-10 MSD
Matrix: Water
Analysis Batch: 395869

Client Sample ID: APMW-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	8.4		50.0	58.2		mg/L		100	90 - 110	0	20
Fluoride	0.062	J	2.50	2.66		mg/L		104	90 - 110	1	20
Sulfate	0.91	J	50.0	50.8		mg/L		100	90 - 110	1	20
Bromide	<0.053		10.0	10.4		mg/L		104	90 - 110	0	20

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

Lab Sample ID: MB 180-395116/1-A
Matrix: Water
Analysis Batch: 395393

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 395116

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.016		0.030	0.016	mg/L		04/12/22 10:54	04/13/22 11:06	1
Antimony	<0.00051		0.0020	0.00051	mg/L		04/12/22 10:54	04/13/22 11:06	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		04/12/22 10:54	04/13/22 11:06	1
Barium	<0.0031		0.010	0.0031	mg/L		04/12/22 10:54	04/13/22 11:06	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		04/12/22 10:54	04/13/22 11:06	1
Boron	<0.060		0.080	0.060	mg/L		04/12/22 10:54	04/13/22 11:06	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/12/22 10:54	04/13/22 11:06	1
Calcium	<0.13		0.50	0.13	mg/L		04/12/22 10:54	04/13/22 11:06	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/12/22 10:54	04/13/22 11:06	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		04/12/22 10:54	04/13/22 11:06	1
Lead	<0.00017		0.0010	0.00017	mg/L		04/12/22 10:54	04/13/22 11:06	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/12/22 10:54	04/13/22 11:06	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/12/22 10:54	04/13/22 11:06	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/12/22 10:54	04/13/22 11:06	1
Iron	<0.028		0.050	0.028	mg/L		04/12/22 10:54	04/13/22 11:06	1
Potassium	<0.16		0.50	0.16	mg/L		04/12/22 10:54	04/13/22 11:06	1
Magnesium	<0.050		0.50	0.050	mg/L		04/12/22 10:54	04/13/22 11:06	1

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

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

Lab Sample ID: MB 180-395116/1-A
Matrix: Water
Analysis Batch: 395393

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 395116

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.0013		0.0050	0.0013	mg/L		04/12/22 10:54	04/13/22 11:06	1
Sodium	<0.18		0.50	0.18	mg/L		04/12/22 10:54	04/13/22 11:06	1
Silicon	<0.062		0.50	0.062	mg/L		04/12/22 10:54	04/13/22 11:06	1
Strontium	<0.0017		0.0050	0.0017	mg/L		04/12/22 10:54	04/13/22 11:06	1
SiO2, Silica	<0.15		1.1	0.15	mg/L		04/12/22 10:54	04/13/22 11:06	1

Lab Sample ID: MB 180-395116/1-A
Matrix: Water
Analysis Batch: 395518

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 395116

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.00328	J	0.0050	0.00083	mg/L		04/12/22 10:54	04/14/22 16:50	1

Lab Sample ID: LCS 180-395116/2-A
Matrix: Water
Analysis Batch: 395393

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 395116

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5.00	4.87		mg/L		97	80 - 120
Antimony	0.250	0.248		mg/L		99	80 - 120
Arsenic	1.00	0.962		mg/L		96	80 - 120
Barium	1.00	1.01		mg/L		101	80 - 120
Beryllium	0.500	0.487		mg/L		97	80 - 120
Boron	1.25	1.21		mg/L		97	80 - 120
Cadmium	0.500	0.506		mg/L		101	80 - 120
Calcium	25.0	26.5		mg/L		106	80 - 120
Chromium	0.500	0.489		mg/L		98	80 - 120
Cobalt	0.500	0.487		mg/L		97	80 - 120
Lead	0.500	0.481		mg/L		96	80 - 120
Molybdenum	0.500	0.500		mg/L		100	80 - 120
Selenium	1.00	0.968		mg/L		97	80 - 120
Thallium	1.00	0.978		mg/L		98	80 - 120
Iron	5.00	4.60		mg/L		92	80 - 120
Potassium	25.0	24.8		mg/L		99	80 - 120
Magnesium	25.0	24.7		mg/L		99	80 - 120
Manganese	0.500	0.478		mg/L		96	80 - 120
Sodium	25.0	25.2		mg/L		101	80 - 120
Silicon	1.00	0.939		mg/L		94	80 - 120
Strontium	0.500	0.486		mg/L		97	80 - 120
SiO2, Silica	2.14	2.01		mg/L		94	80 - 120

Lab Sample ID: LCS 180-395116/2-A
Matrix: Water
Analysis Batch: 395518

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 395116

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.500	0.479		mg/L		96	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

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

Lab Sample ID: 180-136321-14 MS
Matrix: Water
Analysis Batch: 395393

Client Sample ID: APMW-4D
Prep Type: Total Recoverable
Prep Batch: 395116

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	<0.016		5.00	5.10		mg/L		102	75 - 125
Antimony	<0.00051		0.250	0.248		mg/L		99	75 - 125
Arsenic	0.0044		1.00	1.08		mg/L		108	75 - 125
Barium	0.097		1.00	1.07		mg/L		98	75 - 125
Beryllium	<0.00027		0.500	0.455		mg/L		91	75 - 125
Boron	4.0		1.25	5.22		mg/L		100	75 - 125
Cadmium	<0.00022		0.500	0.455		mg/L		91	75 - 125
Calcium	230		25.0	254	4	mg/L		79	75 - 125
Chromium	<0.0015		0.500	0.434		mg/L		87	75 - 125
Cobalt	0.0055		0.500	0.536		mg/L		106	75 - 125
Lead	0.00029	J	0.500	0.411		mg/L		82	75 - 125
Molybdenum	0.25		0.500	0.781		mg/L		107	75 - 125
Selenium	<0.00074		1.00	0.774		mg/L		77	75 - 125
Thallium	<0.00047		1.00	0.836		mg/L		84	75 - 125
Iron	8.6		5.00	13.7		mg/L		103	75 - 125
Potassium	170		25.0	183	4	mg/L		69	75 - 125
Magnesium	470		25.0	470	4	mg/L		15	75 - 125
Manganese	0.27		0.500	0.702		mg/L		87	75 - 125
Silicon	9.5		1.00	10.4	4	mg/L		83	75 - 125
Strontium	4.8		0.500	5.35	4	mg/L		105	75 - 125
SiO2, Silica	20		2.14	22.2	4	mg/L		83	75 - 125

Lab Sample ID: 180-136321-14 MS
Matrix: Water
Analysis Batch: 395518

Client Sample ID: APMW-4D
Prep Type: Total Recoverable
Prep Batch: 395116

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.073	B	0.500	0.580		mg/L		102	75 - 125
Sodium	4600		25.0	4540	4	mg/L		-328	75 - 125

Lab Sample ID: 180-136321-14 MSD
Matrix: Water
Analysis Batch: 395393

Client Sample ID: APMW-4D
Prep Type: Total Recoverable
Prep Batch: 395116

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	<0.016		5.00	5.12		mg/L		102	75 - 125	0	20
Antimony	<0.00051		0.250	0.247		mg/L		99	75 - 125	0	20
Arsenic	0.0044		1.00	1.09		mg/L		108	75 - 125	0	20
Barium	0.097		1.00	1.10		mg/L		101	75 - 125	3	20
Beryllium	<0.00027		0.500	0.459		mg/L		92	75 - 125	1	20
Boron	4.0		1.25	5.14		mg/L		94	75 - 125	2	20
Cadmium	<0.00022		0.500	0.460		mg/L		92	75 - 125	1	20
Calcium	230		25.0	256	4	mg/L		90	75 - 125	1	20
Chromium	<0.0015		0.500	0.454		mg/L		91	75 - 125	5	20
Cobalt	0.0055		0.500	0.529		mg/L		105	75 - 125	1	20
Lead	0.00029	J	0.500	0.431		mg/L		86	75 - 125	5	20
Molybdenum	0.25		0.500	0.791		mg/L		109	75 - 125	1	20
Selenium	<0.00074		1.00	0.807		mg/L		81	75 - 125	4	20
Thallium	<0.00047		1.00	0.876		mg/L		88	75 - 125	5	20

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

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

Lab Sample ID: 180-136321-14 MSD
Matrix: Water
Analysis Batch: 395393

Client Sample ID: APMW-4D
Prep Type: Total Recoverable
Prep Batch: 395116

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	8.6		5.00	13.6		mg/L		100	75 - 125	1	20
Potassium	170		25.0	184	4	mg/L		74	75 - 125	1	20
Magnesium	470		25.0	476	4	mg/L		38	75 - 125	1	20
Manganese	0.27		0.500	0.724		mg/L		92	75 - 125	3	20
Silicon	9.5		1.00	10.6	4	mg/L		101	75 - 125	2	20
Strontium	4.8		0.500	5.27	4	mg/L		89	75 - 125	1	20
SiO2, Silica	20		2.14	22.6	4	mg/L		101	75 - 125	2	20

Lab Sample ID: 180-136321-14 MSD
Matrix: Water
Analysis Batch: 395518

Client Sample ID: APMW-4D
Prep Type: Total Recoverable
Prep Batch: 395116

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	0.073	B	0.500	0.591		mg/L		104	75 - 125	2	20
Sodium	4600		25.0	4530	4	mg/L		-394	75 - 125	0	20

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-395825/1-A
Matrix: Water
Analysis Batch: 395971

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 395825

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/18/22 15:10	04/19/22 12:29	1

Lab Sample ID: LCS 180-395825/2-A
Matrix: Water
Analysis Batch: 395971

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 395825

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00264		mg/L		106	80 - 120

Lab Sample ID: MB 180-395826/1-A
Matrix: Water
Analysis Batch: 395971

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 395826

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/18/22 15:13	04/19/22 12:58	1

Lab Sample ID: LCS 180-395826/2-A
Matrix: Water
Analysis Batch: 395971

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 395826

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00261		mg/L		104	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

Method: EPA 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 180-395167/21
Matrix: Water
Analysis Batch: 395167

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.065		0.10	0.065	mg/L			04/12/22 16:16	1

Lab Sample ID: LCS 180-395167/20
Matrix: Water
Analysis Batch: 395167

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	2.00	2.14		mg/L		107	90 - 110

Lab Sample ID: 180-136321-1 MS
Matrix: Water
Analysis Batch: 395167

Client Sample ID: APMW-1R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	0.16	F1	2.00	1.78	F1	mg/L		81	90 - 110

Lab Sample ID: 180-136321-1 MSD
Matrix: Water
Analysis Batch: 395167

Client Sample ID: APMW-1R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.16	F1	2.00	1.86	F1	mg/L		85	90 - 110	4	20

Lab Sample ID: 180-136321-11 MS
Matrix: Water
Analysis Batch: 395167

Client Sample ID: APMW-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	<0.065		2.00	2.16		mg/L		108	90 - 110

Lab Sample ID: 180-136321-11 MSD
Matrix: Water
Analysis Batch: 395167

Client Sample ID: APMW-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	<0.065		2.00	1.94		mg/L		97	90 - 110	11	20

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

Lab Sample ID: MB 180-394792/2
Matrix: Water
Analysis Batch: 394792

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		10	10	mg/L			04/08/22 16:01	1

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

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

Lab Sample ID: LCS 180-394792/1
Matrix: Water
Analysis Batch: 394792

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	469	466		mg/L		99	85 - 115

Lab Sample ID: MB 180-394796/2
Matrix: Water
Analysis Batch: 394796

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		10	10	mg/L			04/08/22 18:53	1

Lab Sample ID: LCS 180-394796/1
Matrix: Water
Analysis Batch: 394796

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	469	462		mg/L		99	85 - 115

Method: SM 5310C - Total Organic Carbon

Lab Sample ID: MB 180-394685/32
Matrix: Water
Analysis Batch: 394685

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	<0.51		1.0	0.51	mg/L			04/08/22 01:53	1

Lab Sample ID: MB 180-394685/5
Matrix: Water
Analysis Batch: 394685

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	<0.51		1.0	0.51	mg/L			04/07/22 18:08	1

Lab Sample ID: LCS 180-394685/3
Matrix: Water
Analysis Batch: 394685

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Duplicates	20.0	21.1		mg/L		106	85 - 115

Lab Sample ID: LCS 180-394685/30
Matrix: Water
Analysis Batch: 394685

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Duplicates	20.0	21.0		mg/L		105	85 - 115

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

Method: SM 5310C - Total Organic Carbon (Continued)

Lab Sample ID: LCSD 180-394685/31
Matrix: Water
Analysis Batch: 394685

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Duplicates	20.0	21.8		mg/L		109	85 - 115	4	20

Lab Sample ID: LCSD 180-394685/4
Matrix: Water
Analysis Batch: 394685

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Duplicates	20.0	21.1		mg/L		106	85 - 115	0	20

Lab Sample ID: MB 180-395223/5
Matrix: Water
Analysis Batch: 395223

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	<0.51		1.0	0.51	mg/L			04/12/22 17:36	1

Lab Sample ID: LCS 180-395223/3
Matrix: Water
Analysis Batch: 395223

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Duplicates	20.0	21.4		mg/L		107	85 - 115		

Lab Sample ID: LCSD 180-395223/4
Matrix: Water
Analysis Batch: 395223

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Duplicates	20.0	20.9		mg/L		104	85 - 115	3	20

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: MB 180-394814/28
Matrix: Water
Analysis Batch: 394814

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			04/08/22 17:36	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/08/22 17:36	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/08/22 17:36	1

Lab Sample ID: MB 180-394814/4
Matrix: Water
Analysis Batch: 394814

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			04/08/22 14:47	1

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: MB 180-394814/4
Matrix: Water
Analysis Batch: 394814

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/08/22 14:47	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/08/22 14:47	1

Lab Sample ID: MB 180-394814/76
Matrix: Water
Analysis Batch: 394814

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			04/08/22 23:37	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/08/22 23:37	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/08/22 23:37	1

Lab Sample ID: LCS 180-394814/30
Matrix: Water
Analysis Batch: 394814

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	265	238		mg/L		90	90 - 110

Lab Sample ID: LCS 180-394814/6
Matrix: Water
Analysis Batch: 394814

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	265	235	*-	mg/L		89	90 - 110

Lab Sample ID: LCS 180-394814/78
Matrix: Water
Analysis Batch: 394814

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	265	251		mg/L		95	90 - 110

Lab Sample ID: LLCS 180-394814/29
Matrix: Water
Analysis Batch: 394814

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	15.9	14.3		mg/L		90	75 - 125

Lab Sample ID: LLCS 180-394814/5
Matrix: Water
Analysis Batch: 394814

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	15.9	13.9		mg/L		88	75 - 125

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: LLCS 180-394814/77
Matrix: Water
Analysis Batch: 394814

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	15.9	13.9		mg/L		87	75 - 125

Lab Sample ID: 180-136321-12 DU
Matrix: Water
Analysis Batch: 394814

Client Sample ID: APMW-2D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	88		88.8		mg/L		0.4	20
Bicarbonate Alkalinity as CaCO3	88		88.8		mg/L		0.4	20
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	20

Lab Sample ID: 180-136321-14 DU
Matrix: Water
Analysis Batch: 394814

Client Sample ID: APMW-4D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	400		400		mg/L		0.6	20
Bicarbonate Alkalinity as CaCO3	400		400		mg/L		0.6	20
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	20

Lab Sample ID: MB 180-395077/30
Matrix: Water
Analysis Batch: 395077

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			04/09/22 15:28	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/09/22 15:28	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/09/22 15:28	1

Lab Sample ID: MB 180-395077/54
Matrix: Water
Analysis Batch: 395077

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			04/09/22 18:17	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/09/22 18:17	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/09/22 18:17	1

Lab Sample ID: LCS 180-395077/29
Matrix: Water
Analysis Batch: 395077

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	265	241		mg/L		91	90 - 110

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: LCS 180-395077/53
Matrix: Water
Analysis Batch: 395077

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	265	243		mg/L		92	90 - 110

Lab Sample ID: LLCS 180-395077/28
Matrix: Water
Analysis Batch: 395077

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	15.9	14.1		mg/L		89	75 - 125

Lab Sample ID: LLCS 180-395077/52
Matrix: Water
Analysis Batch: 395077

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	15.9	14.0		mg/L		88	75 - 125

Lab Sample ID: MB 180-396119/2
Matrix: Water
Analysis Batch: 396119

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			04/20/22 10:52	1

Lab Sample ID: LCS 180-396119/1
Matrix: Water
Analysis Batch: 396119

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	265	241		mg/L		91	90 - 110

Lab Sample ID: 180-136321-10 DU
Matrix: Water
Analysis Batch: 396119

Client Sample ID: APMW-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Alkalinity as CaCO3 to pH 4.5	38	H	41.8		mg/L		10	20
Bicarbonate Alkalinity as CaCO3	38	H	41.8		mg/L		10	20
Carbonate Alkalinity as CaCO3	<5.0	H	<5.0		mg/L		NC	20

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

HPLC/IC

Analysis Batch: 395384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136321-7	APMW-10D	Total/NA	Water	300.0	
180-136321-11	APMW-12	Total/NA	Water	300.0	
180-136321-13	APMW-3D	Total/NA	Water	300.0	
180-136321-14	APMW-4D	Total/NA	Water	300.0	
MB 180-395384/7	Method Blank	Total/NA	Water	300.0	
LCS 180-395384/6	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 395439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136321-1	APMW-1R	Total/NA	Water	300.0	
180-136321-2	APMW-2	Total/NA	Water	300.0	
180-136321-3	APMW-3	Total/NA	Water	300.0	
180-136321-4	DUP-01	Total/NA	Water	300.0	
180-136321-5	DUP-02	Total/NA	Water	300.0	
180-136321-6	FB-01	Total/NA	Water	300.0	
MB 180-395439/7	Method Blank	Total/NA	Water	300.0	
LCS 180-395439/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 395869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136321-8	EB-01	Total/NA	Water	300.0	
180-136321-9	APMW-10	Total/NA	Water	300.0	
180-136321-10	APMW-11	Total/NA	Water	300.0	
180-136321-12	APMW-2D	Total/NA	Water	300.0	
MB 180-395869/7	Method Blank	Total/NA	Water	300.0	
LCS 180-395869/6	Lab Control Sample	Total/NA	Water	300.0	
180-136321-10 MS	APMW-11	Total/NA	Water	300.0	
180-136321-10 MSD	APMW-11	Total/NA	Water	300.0	

Metals

Prep Batch: 395116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136321-1	APMW-1R	Total Recoverable	Water	3005A	
180-136321-2	APMW-2	Total Recoverable	Water	3005A	
180-136321-3	APMW-3	Total Recoverable	Water	3005A	
180-136321-4	DUP-01	Total Recoverable	Water	3005A	
180-136321-5	DUP-02	Total Recoverable	Water	3005A	
180-136321-6	FB-01	Total Recoverable	Water	3005A	
180-136321-7	APMW-10D	Total Recoverable	Water	3005A	
180-136321-8	EB-01	Total Recoverable	Water	3005A	
180-136321-9	APMW-10	Total Recoverable	Water	3005A	
180-136321-10	APMW-11	Total Recoverable	Water	3005A	
180-136321-11	APMW-12	Total Recoverable	Water	3005A	
180-136321-12	APMW-2D	Total Recoverable	Water	3005A	
180-136321-13	APMW-3D	Total Recoverable	Water	3005A	
180-136321-14	APMW-4D	Total Recoverable	Water	3005A	
MB 180-395116/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-395116/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-136321-14 MS	APMW-4D	Total Recoverable	Water	3005A	
180-136321-14 MSD	APMW-4D	Total Recoverable	Water	3005A	

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QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

Metals

Analysis Batch: 395393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136321-1	APMW-1R	Total Recoverable	Water	EPA 6020B	395116
180-136321-2	APMW-2	Total Recoverable	Water	EPA 6020B	395116
180-136321-3	APMW-3	Total Recoverable	Water	EPA 6020B	395116
180-136321-4	DUP-01	Total Recoverable	Water	EPA 6020B	395116
180-136321-5	DUP-02	Total Recoverable	Water	EPA 6020B	395116
180-136321-6	FB-01	Total Recoverable	Water	EPA 6020B	395116
180-136321-7	APMW-10D	Total Recoverable	Water	EPA 6020B	395116
180-136321-8	EB-01	Total Recoverable	Water	EPA 6020B	395116
180-136321-9	APMW-10	Total Recoverable	Water	EPA 6020B	395116
180-136321-10	APMW-11	Total Recoverable	Water	EPA 6020B	395116
180-136321-11	APMW-12	Total Recoverable	Water	EPA 6020B	395116
180-136321-12	APMW-2D	Total Recoverable	Water	EPA 6020B	395116
180-136321-13	APMW-3D	Total Recoverable	Water	EPA 6020B	395116
180-136321-14	APMW-4D	Total Recoverable	Water	EPA 6020B	395116
MB 180-395116/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	395116
LCS 180-395116/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	395116
180-136321-14 MS	APMW-4D	Total Recoverable	Water	EPA 6020B	395116
180-136321-14 MSD	APMW-4D	Total Recoverable	Water	EPA 6020B	395116

Analysis Batch: 395518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136321-1	APMW-1R	Total Recoverable	Water	EPA 6020B	395116
180-136321-2	APMW-2	Total Recoverable	Water	EPA 6020B	395116
180-136321-3	APMW-3	Total Recoverable	Water	EPA 6020B	395116
180-136321-4	DUP-01	Total Recoverable	Water	EPA 6020B	395116
180-136321-5	DUP-02	Total Recoverable	Water	EPA 6020B	395116
180-136321-6	FB-01	Total Recoverable	Water	EPA 6020B	395116
180-136321-7	APMW-10D	Total Recoverable	Water	EPA 6020B	395116
180-136321-8	EB-01	Total Recoverable	Water	EPA 6020B	395116
180-136321-9	APMW-10	Total Recoverable	Water	EPA 6020B	395116
180-136321-10	APMW-11	Total Recoverable	Water	EPA 6020B	395116
180-136321-11	APMW-12	Total Recoverable	Water	EPA 6020B	395116
180-136321-11	APMW-12	Total Recoverable	Water	EPA 6020B	395116
180-136321-12	APMW-2D	Total Recoverable	Water	EPA 6020B	395116
180-136321-12	APMW-2D	Total Recoverable	Water	EPA 6020B	395116
180-136321-13	APMW-3D	Total Recoverable	Water	EPA 6020B	395116
180-136321-13	APMW-3D	Total Recoverable	Water	EPA 6020B	395116
180-136321-14	APMW-4D	Total Recoverable	Water	EPA 6020B	395116
MB 180-395116/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	395116
LCS 180-395116/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	395116
180-136321-14 MS	APMW-4D	Total Recoverable	Water	EPA 6020B	395116
180-136321-14 MSD	APMW-4D	Total Recoverable	Water	EPA 6020B	395116

Prep Batch: 395825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136321-1	APMW-1R	Total/NA	Water	7470A	
180-136321-2	APMW-2	Total/NA	Water	7470A	
180-136321-3	APMW-3	Total/NA	Water	7470A	
180-136321-4	DUP-01	Total/NA	Water	7470A	
MB 180-395825/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-395825/2-A	Lab Control Sample	Total/NA	Water	7470A	

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QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

Metals

Prep Batch: 395826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136321-5	DUP-02	Total/NA	Water	7470A	
180-136321-6	FB-01	Total/NA	Water	7470A	
180-136321-7	APMW-10D	Total/NA	Water	7470A	
180-136321-8	EB-01	Total/NA	Water	7470A	
180-136321-9	APMW-10	Total/NA	Water	7470A	
180-136321-10	APMW-11	Total/NA	Water	7470A	
180-136321-11	APMW-12	Total/NA	Water	7470A	
180-136321-12	APMW-2D	Total/NA	Water	7470A	
180-136321-13	APMW-3D	Total/NA	Water	7470A	
180-136321-14	APMW-4D	Total/NA	Water	7470A	
MB 180-395826/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-395826/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 395971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136321-1	APMW-1R	Total/NA	Water	EPA 7470A	395825
180-136321-2	APMW-2	Total/NA	Water	EPA 7470A	395825
180-136321-3	APMW-3	Total/NA	Water	EPA 7470A	395825
180-136321-4	DUP-01	Total/NA	Water	EPA 7470A	395825
180-136321-5	DUP-02	Total/NA	Water	EPA 7470A	395826
180-136321-6	FB-01	Total/NA	Water	EPA 7470A	395826
180-136321-7	APMW-10D	Total/NA	Water	EPA 7470A	395826
180-136321-8	EB-01	Total/NA	Water	EPA 7470A	395826
180-136321-9	APMW-10	Total/NA	Water	EPA 7470A	395826
180-136321-10	APMW-11	Total/NA	Water	EPA 7470A	395826
180-136321-11	APMW-12	Total/NA	Water	EPA 7470A	395826
180-136321-12	APMW-2D	Total/NA	Water	EPA 7470A	395826
180-136321-13	APMW-3D	Total/NA	Water	EPA 7470A	395826
180-136321-14	APMW-4D	Total/NA	Water	EPA 7470A	395826
MB 180-395825/1-A	Method Blank	Total/NA	Water	EPA 7470A	395825
MB 180-395826/1-A	Method Blank	Total/NA	Water	EPA 7470A	395826
LCS 180-395825/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	395825
LCS 180-395826/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	395826

General Chemistry

Analysis Batch: 394685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136321-2	APMW-2	Total/NA	Water	SM 5310C	
180-136321-3	APMW-3	Total/NA	Water	SM 5310C	
180-136321-5	DUP-02	Total/NA	Water	SM 5310C	
180-136321-6	FB-01	Total/NA	Water	SM 5310C	
180-136321-7	APMW-10D	Total/NA	Water	SM 5310C	
180-136321-8	EB-01	Total/NA	Water	SM 5310C	
180-136321-9	APMW-10	Total/NA	Water	SM 5310C	
180-136321-10	APMW-11	Total/NA	Water	SM 5310C	
180-136321-11	APMW-12	Total/NA	Water	SM 5310C	
180-136321-12	APMW-2D	Total/NA	Water	SM 5310C	
180-136321-13	APMW-3D	Total/NA	Water	SM 5310C	
180-136321-14	APMW-4D	Total/NA	Water	SM 5310C	
MB 180-394685/32	Method Blank	Total/NA	Water	SM 5310C	

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QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

General Chemistry (Continued)

Analysis Batch: 394685 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-394685/5	Method Blank	Total/NA	Water	SM 5310C	
LCS 180-394685/3	Lab Control Sample	Total/NA	Water	SM 5310C	
LCS 180-394685/30	Lab Control Sample	Total/NA	Water	SM 5310C	
LCSD 180-394685/31	Lab Control Sample Dup	Total/NA	Water	SM 5310C	
LCSD 180-394685/4	Lab Control Sample Dup	Total/NA	Water	SM 5310C	

Analysis Batch: 394792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136321-1	APMW-1R	Total/NA	Water	SM 2540C	
180-136321-2	APMW-2	Total/NA	Water	SM 2540C	
180-136321-4	DUP-01	Total/NA	Water	SM 2540C	
180-136321-11	APMW-12	Total/NA	Water	SM 2540C	
180-136321-12	APMW-2D	Total/NA	Water	SM 2540C	
MB 180-394792/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-394792/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 394796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136321-3	APMW-3	Total/NA	Water	SM 2540C	
180-136321-5	DUP-02	Total/NA	Water	SM 2540C	
180-136321-6	FB-01	Total/NA	Water	SM 2540C	
180-136321-7	APMW-10D	Total/NA	Water	SM 2540C	
180-136321-8	EB-01	Total/NA	Water	SM 2540C	
180-136321-9	APMW-10	Total/NA	Water	SM 2540C	
180-136321-10	APMW-11	Total/NA	Water	SM 2540C	
180-136321-13	APMW-3D	Total/NA	Water	SM 2540C	
180-136321-14	APMW-4D	Total/NA	Water	SM 2540C	
MB 180-394796/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-394796/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 394814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136321-1	APMW-1R	Total/NA	Water	SM2320 B	
180-136321-3	APMW-3	Total/NA	Water	SM2320 B	
180-136321-4	DUP-01	Total/NA	Water	SM2320 B	
180-136321-6	FB-01	Total/NA	Water	SM2320 B	
180-136321-8	EB-01	Total/NA	Water	SM2320 B	
180-136321-9	APMW-10	Total/NA	Water	SM2320 B	
180-136321-11	APMW-12	Total/NA	Water	SM2320 B	
180-136321-12	APMW-2D	Total/NA	Water	SM2320 B	
180-136321-13	APMW-3D	Total/NA	Water	SM2320 B	
180-136321-14	APMW-4D	Total/NA	Water	SM2320 B	
MB 180-394814/28	Method Blank	Total/NA	Water	SM2320 B	
MB 180-394814/4	Method Blank	Total/NA	Water	SM2320 B	
MB 180-394814/76	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-394814/30	Lab Control Sample	Total/NA	Water	SM2320 B	
LCS 180-394814/6	Lab Control Sample	Total/NA	Water	SM2320 B	
LCS 180-394814/78	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-394814/29	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-394814/5	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-394814/77	Lab Control Sample	Total/NA	Water	SM2320 B	

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QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

General Chemistry (Continued)

Analysis Batch: 394814 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136321-12 DU	APMW-2D	Total/NA	Water	SM2320 B	
180-136321-14 DU	APMW-4D	Total/NA	Water	SM2320 B	

Analysis Batch: 395077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136321-2	APMW-2	Total/NA	Water	SM2320 B	
180-136321-5	DUP-02	Total/NA	Water	SM2320 B	
180-136321-7	APMW-10D	Total/NA	Water	SM2320 B	
MB 180-395077/30	Method Blank	Total/NA	Water	SM2320 B	
MB 180-395077/54	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-395077/29	Lab Control Sample	Total/NA	Water	SM2320 B	
LCS 180-395077/53	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-395077/28	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-395077/52	Lab Control Sample	Total/NA	Water	SM2320 B	

Analysis Batch: 395167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136321-1	APMW-1R	Total/NA	Water	EPA 353.2	
180-136321-2	APMW-2	Total/NA	Water	EPA 353.2	
180-136321-3	APMW-3	Total/NA	Water	EPA 353.2	
180-136321-4	DUP-01	Total/NA	Water	EPA 353.2	
180-136321-5	DUP-02	Total/NA	Water	EPA 353.2	
180-136321-6	FB-01	Total/NA	Water	EPA 353.2	
180-136321-7	APMW-10D	Total/NA	Water	EPA 353.2	
180-136321-8	EB-01	Total/NA	Water	EPA 353.2	
180-136321-9	APMW-10	Total/NA	Water	EPA 353.2	
180-136321-10	APMW-11	Total/NA	Water	EPA 353.2	
180-136321-11	APMW-12	Total/NA	Water	EPA 353.2	
180-136321-12	APMW-2D	Total/NA	Water	EPA 353.2	
180-136321-13	APMW-3D	Total/NA	Water	EPA 353.2	
180-136321-14	APMW-4D	Total/NA	Water	EPA 353.2	
MB 180-395167/21	Method Blank	Total/NA	Water	EPA 353.2	
LCS 180-395167/20	Lab Control Sample	Total/NA	Water	EPA 353.2	
180-136321-1 MS	APMW-1R	Total/NA	Water	EPA 353.2	
180-136321-1 MSD	APMW-1R	Total/NA	Water	EPA 353.2	
180-136321-11 MS	APMW-12	Total/NA	Water	EPA 353.2	
180-136321-11 MSD	APMW-12	Total/NA	Water	EPA 353.2	

Analysis Batch: 395223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136321-1	APMW-1R	Total/NA	Water	SM 5310C	
180-136321-4	DUP-01	Total/NA	Water	SM 5310C	
MB 180-395223/5	Method Blank	Total/NA	Water	SM 5310C	
LCS 180-395223/3	Lab Control Sample	Total/NA	Water	SM 5310C	
LCSD 180-395223/4	Lab Control Sample Dup	Total/NA	Water	SM 5310C	

Analysis Batch: 396119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136321-10	APMW-11	Total/NA	Water	SM2320 B	
MB 180-396119/2	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-396119/1	Lab Control Sample	Total/NA	Water	SM2320 B	

Eurofins Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-1

General Chemistry (Continued)

Analysis Batch: 396119 (Continued)

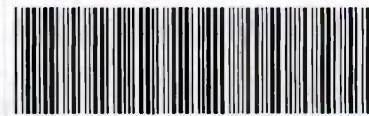
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136321-10 DU	APMW-11	Total/NA	Water	SM2320 B	

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Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
 Pittsburgh, PA 15238
 Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record



180-136321 Chain of Custody

15 Environment Testing
 America

Client Information		Sampler: <u>Philip Evans/Rick H.</u>		Lab PM: <u>Brown, Shali</u>		
Client Contact: <u>SCS Contacts</u>		Phone: <u>850-336-0192</u>		E-Mail: <u>shali.brown@eurofinset.com</u>		
Company: <u>SCS</u>		Analysis Requested				Job #:
Address: <u>3535 Colonnade Pkwy Bin S 530 EC</u>		Due Date Requested:		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 2540C Total Dissolved Solids 300_28Day Chloride Fluoride Sulfate Bromide 6020B/7470 Custom 23 (App/III/APP/IV-9) + Mercury + Fe Mg Na Al Mn K Sr Si and Silica 353.2 Nitrate/Nitrite NOX (pres) 5310C Total Organic Carbon 2320B Alkalinity, Total, Carb, Bicarb 9316_Ra228 Radium 228 9320_Ra228 Radium 228 Combined RAD 2540 Total Suspended Solids Total Number of containers		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Asmchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify) Other:
City: <u>Birmingham</u>		TAT Requested (days):				
State, Zip: <u>AL, 35243</u>		PO #:				
Phone: <u>205-992-6283</u>		WO #:				
Email: <u>SCS Contacts</u>		Project #: <u>18020186</u>				
Project Name: <u>Plant Watson</u>		SSOW#:		Site: <u>Ash Pond</u>		
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Lot # Special Instructions/Note:
				Preservation Code:		
<u>APMW-1R</u>		<u>4/4/22</u>	<u>1730</u>	<u>G</u>	<u>GW</u>	<u>40 ml (H2SO4) - 0000276386</u>
<u>APMW-2</u>		<u>4/5/22</u>	<u>1045</u>	<u>G</u>	<u>GW</u>	<u>1L (HNO3) - 0000280251</u>
<u>APMW-3</u>		<u>4/5/22</u>	<u>1208</u>	<u>G</u>	<u>GW</u>	<u>250 (H2SO4) - 217416</u>
<u>DUP-01</u>		<u>4/4/22</u>	<u>1630</u>	<u>G</u>	<u>GW</u>	<u>500 (None) - 0322101G</u>
<u>DUP-02</u>		<u>4/5/22</u>	<u>0945</u>	<u>G</u>	<u>GW</u>	<u>250 (HNO3) - 000028251</u>
<u>FB-01</u>		<u>4/5/22</u>	<u>1455</u>	<u>G</u>	<u>GW</u>	
<u>APMW-10D</u>		<u>4/5/22</u>	<u>1613</u>	<u>G</u>	<u>GW</u>	
<u>EB-01</u>		<u>4/5/22</u>	<u>1628</u>	<u>G</u>	<u>GW</u>	
<u>APMW-10</u>		<u>4/5/22</u>	<u>1054</u>	<u>G</u>	<u>GW</u>	
<u>APMW-11</u>		<u>4/4/22</u>	<u>1220</u>	<u>G</u>	<u>GW</u>	
Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		
<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				<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)				Special Instructions/QC Requirements:		
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:		
<u>[Signature]</u>		<u>4/5/22</u>	<u>1700</u>	Company: <u>R.D.H.</u>	Received by: <u>[Signature]</u>	Date/Time: <u>4/16/22 900</u>
Relinquished by:		Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:		Date/Time:	Company:	Received by:	Date/Time:	Company:
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Chain of Custody Record



Client Information				Sampler: <u>Philip E. Rick H.</u>		Lab PM: <u>Brown, Shali</u>		Carrier Tracking No(s):		COC No:											
Client Contact				Phone: <u>850-336-0192</u>		E-Mail: <u>shall.brown@eurofinset.com</u>				Page:											
SCS Contacts										Job #:											
Company: SCS				Analysis Requested								Preservation Codes:									
Address: 3535 Colonnade Pkwy Bin S 530 EC				Due Date Requested:								A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - As/NaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)									
City: Birmingham				TAT Requested (days):								Other:									
State, Zip: AL, 35243												Lot #s									
Phone: 205-992-6283				PO #:								Special Instructions/Note:									
Email: SCS Contacts				WO #:																	
Project Name: Plant Watson				Project #: 18020186																	
Site: Ash Pond				SSOW#:																	
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)	Perform MS/MSD (Yes or No)	2540C Total Dissolved Solids	300_28Day Chloride Fluoride Sulfate Bromide	6020B/7470 Custom 23 (App/III/App/IV+9) + Mercury + Fe Mg Na Al Mn K Sr Si and Silica	353.2 Nitrate/Nitrite NOX (pres)	5310C Total Organic Carbon	2320B Alkalinity, Total, Carb, Bicarb	8316_Ra228 Radium 228	9320_Ra228 Radium 228	Combined RAD	2640 Total Suspended Solids	Total Number of Containers	
APMW-12				4/4/22	1340	G	GW	X	X	X	X	X	X	X	X	X	X	X	X	X	40-1(H2SO4) - 0000276386 1L(HNO3) - 0000280251 250(H2SO4) - 217416 500(Non) - 03221619 250(HNO3) - 0000280251
							GW	X	X	X	X	X	X	X	X	X	X	X	X		
							GW	X	X	X	X	X	X	X	X	X	X	X	X		
							GW	X	X	X	X	X	X	X	X	X	X	X	X		
							GW	X	X	X	X	X	X	X	X	X	X	X	X		
APMW-2D				4/5/22	0938	G	GW	X	X	X	X	X	X	X	X	X	X	X	X		
APMW-3D				4/5/22	1305	G	GW	X	X	X	X	X	X	X	X	X	X	X	X		
APMW-4D				4/5/22	1450	G	GW	X	X	X	X	X	X	X	X	X	X	X	X		
							GW	X	X	X	X	X	X	X	X	X	X	X	X		
							GW	X	X	X	X	X	X	X	X	X	X	X	X		
							GW	X	X	X	X	X	X	X	X	X	X	X	X		

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FedEx[®]

Do Not Lift Using This Tag

180-136321 Waybill

ID:PNSA (850) 336-0192
IRONMENTAL
VE DR
FL 32571
STATES US

SHIP DATE: 06APR22
ACTING: 19.00
CAD: 6994785/85FE2300
DIRS: 17X12X15 IN

BILL RECEIPT

**ROPHINS TEST AMERICA
1 ALPHA DR RIDC PARK**

TTSBURGH PA 15238

REF: 98-9998

Part # 156297-435 RPTD EXP 09/22
58DJ2/BDF9/TE48

10:30
4553
A
04.07

FedEx
Express



THU - 07 APR 10:30A

PRIORITY OVERNIGHT

AHS

15238

PA-US PIT

TRK# 2717-3633 4553
0201

XN AGGA

Uncorrected temp 5.2 °C

Thermometer ID 16

CF -0.1

PT-WI-SR-001 effective 1/18/18



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Do Not Lift Using This Tag

ORIGIN ID: PMSA (850) 336-0192
RDH ENVIRONMENTAL
5720 DOVE DR
MILTON, FL 32571
UNITED STATES US

SHIP DATE: 06APR22
ACTWGT: 35.55 LB
CAD: 6994795/SSFE2300
DIMS: 25x14x13 IN
BILL RECIPIENT

EUROPHINS TEST AMERICA
301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238

(888) 888-8888
INV:
PO:

221022010501

FedEx Express

10:30
4127
04:07

98
FL

TRK# 2717 3648 4127
0201
THU - 07 APR 10:30A
PRIORITY OVERNIGHT

XN-AGCA
15238
PA-US PIT

Uncorrected temp _____ °C
Thermometer ID _____

CF-014 Initials _____

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

Part # 156297-435 RRDW2 EXP 09/22
56DJ2/BF9/FE4A



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10:30
9-16
04:07
7
F-98
Do Not Lift Using This Tag

Do Not Lift Using This Tag

ORIGIN ID: PNSA (850) 336-0192
RDH ENVIRONMENTAL
5720 DOVE DR
MILTON, FL 32571
UNITED STATES US

SHIP DATE: 06APR22
ACTWTG: 27.15 LB
CAD: 6994795/S6/FE2300
DIMS: 24X13X12 IN
BILL RECIPIENT

EUROPHINS TEST AMERICA
301 ALPHA DR RIDC PARK
PITTSBURGH PA 15238

(888) 888-8888
TRK# 2717 3641 9410
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THU - 07 APR 10:30A
PRIORITY OVERNIGHT
AHS 15238
PA-US PIT
XN AGCA

Uncorrected temp
Thermometer ID
CF COM Initials S
PT-WI-SR-001 effective 11/8/18

ORIGIN ID: PNSA (850) 336-0192
RDH ENVIRONMENTAL
5720 DOVE DR
MILTON, FL 32571
UNITED STATES US
SHIP DATE: 06APR22
ACTWTG: 27.15 LB
CAD: 6994795/S6/FE2300
DIMS: 24X13X13 IN
BILL RECIPIENT

EUROPHINS TEST AMERICA
301 ALPHA DR RIDC PARK
PITTSBURGH PA 15238

(888) 888-8888
TRK# 2717 3669 0518
0201
REF
DEPT
FedEx Express
E

THU - 07 APR 10:30A
PRIORITY OVERNIGHT
AHS 15238
PA-US PIT
XN AGCA

Uncorrected temp
Thermometer ID
CF COM Initials S
PT-WI-SR-001 effective 11/8/18

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Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-136321-1

Login Number: 136321

List Number: 1

Creator: Jodis, Matthew V

List Source: Eurofins Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-136321-2

Client Project/Site: Plant Watson Ash Pond

For:

Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Robert Singleton



Authorized for release by:
5/6/2022 6:31:39 PM

Shali Brown, Project Manager II
(615)301-5031

Shali.Brown@et.eurofinsus.com

LINKS

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results through
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



Table of Contents

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Case Narrative

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-2

Job ID: 180-136321-2

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-136321-2

Receipt

The samples were received on 4/7/2022 11:10 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 2.4°C, 2.4°C and 2.8°C

Gas Flow Proportional Counter

Method 9315_Ra226: The aliquot was reduced during the initial precipitation for samples APMW-1R (180-136321-1) and DUP-01 (180-136321-4) in batch 160-560010 and 160-560022 due to matrix interferences.

Method 9315_Ra226: Radium-226 Batch 560010 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. APMW-1R (180-136321-1), APMW-2 (180-136321-2), APMW-3 (180-136321-3), DUP-01 (180-136321-4), DUP-02 (180-136321-5), FB-01 (180-136321-6), APMW-10D (180-136321-7), EB-01 (180-136321-8), APMW-10 (180-136321-9), APMW-11 (180-136321-10), APMW-12 (180-136321-11), APMW-2D (180-136321-12), APMW-3D (180-136321-13), APMW-4D (180-136321-14), (LCS 160-560010/1-A), (MB 160-560010/22-A), (160-45065-C-5-A) and (160-45065-C-5-B DU)

Method 9320_Ra228: The aliquot was reduced during the initial precipitation for samples APMW-1R (180-136321-1) and DUP-01 (180-136321-4) in batch 160-560010 and 160-560022 due to matrix interferences.

Method 9320_Ra228: Radium-228 batch 560022 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. APMW-1R (180-136321-1), APMW-2 (180-136321-2), APMW-3 (180-136321-3), DUP-01 (180-136321-4), DUP-02 (180-136321-5), FB-01 (180-136321-6), APMW-10D (180-136321-7), EB-01 (180-136321-8), APMW-10 (180-136321-9), APMW-11 (180-136321-10), APMW-12 (180-136321-11), APMW-2D (180-136321-12), APMW-3D (180-136321-13), APMW-4D (180-136321-14), (LCS 160-560022/1-A), (MB 160-560022/22-A), (160-45065-C-5-C) and (160-45065-C-5-D DU)

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 Watson Ash Pond

Job ID: 180-136321-2

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 Watson Ash Pond

Job ID: 180-136321-2

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	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	07-01-22
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-23
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	NELAP	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

Sample Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-136321-1	APMW-1R	Water	04/04/22 17:30	04/07/22 11:10
180-136321-2	APMW-2	Water	04/05/22 10:45	04/07/22 11:10
180-136321-3	APMW-3	Water	04/05/22 12:08	04/07/22 11:10
180-136321-4	DUP-01	Water	04/04/22 16:30	04/07/22 11:10
180-136321-5	DUP-02	Water	04/05/22 09:45	04/07/22 11:10
180-136321-6	FB-01	Water	04/05/22 14:55	04/07/22 11:10
180-136321-7	APMW-10D	Water	04/05/22 16:13	04/07/22 11:10
180-136321-8	EB-01	Water	04/05/22 16:28	04/07/22 11:10
180-136321-9	APMW-10	Water	04/05/22 10:54	04/07/22 11:10
180-136321-10	APMW-11	Water	04/04/22 12:20	04/07/22 11:10
180-136321-11	APMW-12	Water	04/04/22 13:40	04/07/22 11:10
180-136321-12	APMW-2D	Water	04/05/22 09:38	04/07/22 11:10
180-136321-13	APMW-3D	Water	04/05/22 13:05	04/07/22 11:10
180-136321-14	APMW-4D	Water	04/05/22 14:50	04/07/22 11:10



Method Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-2

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

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

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-2

Client Sample ID: APMW-1R

Lab Sample ID: 180-136321-1

Date Collected: 04/04/22 17:30

Matrix: Water

Date Received: 04/07/22 11:10

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			750.17 mL	1.0 g	560010	04/12/22 16:28	MLK	TAL SL
Total/NA	Analysis	9315		1			563514	05/04/22 17:49	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			750.17 mL	1.0 g	560022	04/12/22 16:28	MLK	TAL SL
Total/NA	Analysis	9320		1			563488	05/03/22 17:08	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			564098	05/06/22 14:04	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-2

Lab Sample ID: 180-136321-2

Date Collected: 04/05/22 10:45

Matrix: Water

Date Received: 04/07/22 11:10

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			999.84 mL	1.0 g	560010	04/12/22 16:28	MLK	TAL SL
Total/NA	Analysis	9315		1			563514	05/04/22 18:26	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			999.84 mL	1.0 g	560022	04/12/22 16:28	MLK	TAL SL
Total/NA	Analysis	9320		1			563488	05/03/22 17:08	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			564098	05/06/22 14:04	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-3

Lab Sample ID: 180-136321-3

Date Collected: 04/05/22 12:08

Matrix: Water

Date Received: 04/07/22 11:10

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			999.68 mL	1.0 g	560010	04/12/22 16:28	MLK	TAL SL
Total/NA	Analysis	9315		1			563514	05/04/22 18:26	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			999.68 mL	1.0 g	560022	04/12/22 16:28	MLK	TAL SL
Total/NA	Analysis	9320		1			563488	05/03/22 17:08	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			564098	05/06/22 14:04	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-01

Lab Sample ID: 180-136321-4

Date Collected: 04/04/22 16:30

Matrix: Water

Date Received: 04/07/22 11:10

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			753.29 mL	1.0 g	560010	04/12/22 16:28	MLK	TAL SL
Total/NA	Analysis	9315		1			563514	05/04/22 18:26	FLC	TAL SL
Instrument ID: GFPCPURPLE										

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-2

Client Sample ID: DUP-01
Date Collected: 04/04/22 16:30
Date Received: 04/07/22 11:10

Lab Sample ID: 180-136321-4
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			753.29 mL	1.0 g	560022	04/12/22 16:28	MLK	TAL SL
Total/NA	Analysis	9320		1			563488	05/03/22 17:08	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			564098	05/06/22 14:04	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-02
Date Collected: 04/05/22 09:45
Date Received: 04/07/22 11:10

Lab Sample ID: 180-136321-5
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			998.15 mL	1.0 g	560010	04/12/22 16:28	MLK	TAL SL
Total/NA	Analysis	9315		1			563514	05/04/22 18:27	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			998.15 mL	1.0 g	560022	04/12/22 16:28	MLK	TAL SL
Total/NA	Analysis	9320		1			563488	05/03/22 17:08	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			564098	05/06/22 14:04	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-01
Date Collected: 04/05/22 14:55
Date Received: 04/07/22 11:10

Lab Sample ID: 180-136321-6
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			1001.59 mL	1.0 g	560010	04/12/22 16:28	MLK	TAL SL
Total/NA	Analysis	9315		1			563516	05/04/22 18:28	JCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1001.59 mL	1.0 g	560022	04/12/22 16:28	MLK	TAL SL
Total/NA	Analysis	9320		1			563488	05/03/22 17:09	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			564098	05/06/22 14:04	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-10D
Date Collected: 04/05/22 16:13
Date Received: 04/07/22 11:10

Lab Sample ID: 180-136321-7
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			1000.49 mL	1.0 g	560010	04/12/22 16:28	MLK	TAL SL
Total/NA	Analysis	9315		1			563516	05/04/22 18:29	JCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.49 mL	1.0 g	560022	04/12/22 16:28	MLK	TAL SL
Total/NA	Analysis	9320		1			563488	05/03/22 17:09	FLC	TAL SL
Instrument ID: GFPCBLUE										

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-2

Client Sample ID: APMW-10D

Lab Sample ID: 180-136321-7

Date Collected: 04/05/22 16:13

Matrix: Water

Date Received: 04/07/22 11:10

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			564098	05/06/22 14:04	SCB	TAL SL

Client Sample ID: EB-01

Lab Sample ID: 180-136321-8

Date Collected: 04/05/22 16:28

Matrix: Water

Date Received: 04/07/22 11:10

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			1001.94 mL	1.0 g	560010	04/12/22 16:28	MLK	TAL SL
Total/NA	Analysis	9315		1			563516	05/04/22 18:29	JCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1001.94 mL	1.0 g	560022	04/12/22 16:28	MLK	TAL SL
Total/NA	Analysis	9320		1			563488	05/03/22 17:09	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			564098	05/06/22 14:04	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-10

Lab Sample ID: 180-136321-9

Date Collected: 04/05/22 10:54

Matrix: Water

Date Received: 04/07/22 11:10

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			1000.66 mL	1.0 g	560010	04/12/22 16:28	MLK	TAL SL
Total/NA	Analysis	9315		1			563516	05/04/22 18:29	JCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.66 mL	1.0 g	560022	04/12/22 16:28	MLK	TAL SL
Total/NA	Analysis	9320		1			563488	05/03/22 17:10	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			564098	05/06/22 14:04	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-11

Lab Sample ID: 180-136321-10

Date Collected: 04/04/22 12:20

Matrix: Water

Date Received: 04/07/22 11:10

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			999.47 mL	1.0 g	560010	04/12/22 16:28	MLK	TAL SL
Total/NA	Analysis	9315		1			563516	05/04/22 20:29	JCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.47 mL	1.0 g	560022	04/12/22 16:28	MLK	TAL SL
Total/NA	Analysis	9320		1			563488	05/03/22 17:10	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			564098	05/06/22 14:04	SCB	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-2

Client Sample ID: APMW-12

Date Collected: 04/04/22 13:40

Date Received: 04/07/22 11:10

Lab Sample ID: 180-136321-11

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			996.80 mL	1.0 g	560010	04/12/22 16:28	MLK	TAL SL
Total/NA	Analysis	9315		1			563516	05/04/22 20:29	JCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			996.80 mL	1.0 g	560022	04/12/22 16:28	MLK	TAL SL
Total/NA	Analysis	9320		1			563488	05/03/22 17:10	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			564098	05/06/22 14:04	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-2D

Date Collected: 04/05/22 09:38

Date Received: 04/07/22 11:10

Lab Sample ID: 180-136321-12

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			999.74 mL	1.0 g	560010	04/12/22 16:28	MLK	TAL SL
Total/NA	Analysis	9315		1			563516	05/04/22 20:29	JCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.74 mL	1.0 g	560022	04/12/22 16:28	MLK	TAL SL
Total/NA	Analysis	9320		1			563488	05/03/22 17:10	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			564098	05/06/22 14:04	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-3D

Date Collected: 04/05/22 13:05

Date Received: 04/07/22 11:10

Lab Sample ID: 180-136321-13

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			1000.36 mL	1.0 g	560010	04/12/22 16:28	MLK	TAL SL
Total/NA	Analysis	9315		1			563516	05/04/22 20:29	JCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.36 mL	1.0 g	560022	04/12/22 16:28	MLK	TAL SL
Total/NA	Analysis	9320		1			563488	05/03/22 17:10	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			564098	05/06/22 14:04	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-4D

Date Collected: 04/05/22 14:50

Date Received: 04/07/22 11:10

Lab Sample ID: 180-136321-14

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			1000.52 mL	1.0 g	560010	04/12/22 16:28	MLK	TAL SL
Total/NA	Analysis	9315		1			563514	05/04/22 20:30	FLC	TAL SL
Instrument ID: GFPCPURPLE										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-2

Client Sample ID: APMW-4D

Lab Sample ID: 180-136321-14

Date Collected: 04/05/22 14:50

Matrix: Water

Date Received: 04/07/22 11:10

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			1000.52 mL	1.0 g	560022	04/12/22 16:28	MLK	TAL SL
Total/NA	Analysis	9320		1			563488	05/03/22 17:10	FLC	TAL SL
		Instrument ID: GFPCBLUE								
Total/NA	Analysis	Ra226_Ra228		1			564098	05/06/22 14:04	SCB	TAL SL
		Instrument ID: NOEQUIP								

Laboratory References:

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

Analyst References:

Lab: TAL SL

Batch Type: Prep

MLK = Micha Korrinhizer

Batch Type: Analysis

FLC = Fernando Cruz

JCB = Jacob Boyd

SCB = Sarah Bernsen

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-2

Client Sample ID: APMW-1R

Lab Sample ID: 180-136321-1

Date Collected: 04/04/22 17:30

Matrix: Water

Date Received: 04/07/22 11:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	5.87		0.709	0.884	1.00	0.341	pCi/L	04/12/22 16:28	05/04/22 17:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		40 - 110					04/12/22 16:28	05/04/22 17:49	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	6.67		0.639	0.886	1.00	0.441	pCi/L	04/12/22 16:28	05/03/22 17:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		40 - 110					04/12/22 16:28	05/03/22 17:08	1
Y Carrier	85.2		40 - 110					04/12/22 16:28	05/03/22 17:08	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	12.5		0.954	1.25	5.00	0.441	pCi/L		05/06/22 14:04	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-2

Client Sample ID: APMW-2

Lab Sample ID: 180-136321-2

Date Collected: 04/05/22 10:45

Matrix: Water

Date Received: 04/07/22 11:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	10.2		0.793	1.22	1.00	0.269	pCi/L	04/12/22 16:28	05/04/22 18:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	104		40 - 110					04/12/22 16:28	05/04/22 18:26	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	7.12		0.572	0.869	1.00	0.375	pCi/L	04/12/22 16:28	05/03/22 17:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	104		40 - 110					04/12/22 16:28	05/03/22 17:08	1
Y Carrier	82.6		40 - 110					04/12/22 16:28	05/03/22 17:08	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	17.4		0.978	1.50	5.00	0.375	pCi/L		05/06/22 14:04	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-2

Client Sample ID: APMW-3

Lab Sample ID: 180-136321-3

Date Collected: 04/05/22 12:08

Matrix: Water

Date Received: 04/07/22 11:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.811		0.262	0.272	1.00	0.249	pCi/L	04/12/22 16:28	05/04/22 18:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.8		40 - 110					04/12/22 16:28	05/04/22 18:26	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	6.64		0.563	0.830	1.00	0.380	pCi/L	04/12/22 16:28	05/03/22 17:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.8		40 - 110					04/12/22 16:28	05/03/22 17:08	1
Y Carrier	87.9		40 - 110					04/12/22 16:28	05/03/22 17:08	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	7.45		0.621	0.873	5.00	0.380	pCi/L		05/06/22 14:04	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-2

Client Sample ID: DUP-01
 Date Collected: 04/04/22 16:30
 Date Received: 04/07/22 11:10

Lab Sample ID: 180-136321-4
 Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	5.66		0.688	0.856	1.00	0.337	pCi/L	04/12/22 16:28	05/04/22 18:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	107		40 - 110					04/12/22 16:28	05/04/22 18:26	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	6.94		0.632	0.898	1.00	0.403	pCi/L	04/12/22 16:28	05/03/22 17:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	107		40 - 110					04/12/22 16:28	05/03/22 17:08	1
Y Carrier	86.0		40 - 110					04/12/22 16:28	05/03/22 17:08	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	12.6		0.934	1.24	5.00	0.403	pCi/L		05/06/22 14:04	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-2

Client Sample ID: DUP-02
Date Collected: 04/05/22 09:45
Date Received: 04/07/22 11:10

Lab Sample ID: 180-136321-5
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	11.6		0.835	1.33	1.00	0.238	pCi/L	04/12/22 16:28	05/04/22 18:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	108		40 - 110					04/12/22 16:28	05/04/22 18:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	6.93		0.524	0.825	1.00	0.297	pCi/L	04/12/22 16:28	05/03/22 17:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	108		40 - 110					04/12/22 16:28	05/03/22 17:08	1
Y Carrier	88.2		40 - 110					04/12/22 16:28	05/03/22 17:08	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	18.5		0.986	1.57	5.00	0.297	pCi/L		05/06/22 14:04	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-2

Client Sample ID: FB-01

Lab Sample ID: 180-136321-6

Date Collected: 04/05/22 14:55

Matrix: Water

Date Received: 04/07/22 11:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0278	U	0.119	0.119	1.00	0.257	pCi/L	04/12/22 16:28	05/04/22 18:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		40 - 110					04/12/22 16:28	05/04/22 18:28	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.299	U	0.231	0.233	1.00	0.365	pCi/L	04/12/22 16:28	05/03/22 17:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		40 - 110					04/12/22 16:28	05/03/22 17:09	1
Y Carrier	86.4		40 - 110					04/12/22 16:28	05/03/22 17:09	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.271	U	0.260	0.262	5.00	0.365	pCi/L		05/06/22 14:04	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-2

Client Sample ID: APMW-10D

Lab Sample ID: 180-136321-7

Date Collected: 04/05/22 16:13

Matrix: Water

Date Received: 04/07/22 11:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.302	U	0.218	0.219	1.00	0.317	pCi/L	04/12/22 16:28	05/04/22 18:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.6		40 - 110					04/12/22 16:28	05/04/22 18:29	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.292	U	0.242	0.243	1.00	0.385	pCi/L	04/12/22 16:28	05/03/22 17:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.6		40 - 110					04/12/22 16:28	05/03/22 17:09	1
Y Carrier	85.6		40 - 110					04/12/22 16:28	05/03/22 17:09	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.594		0.326	0.327	5.00	0.385	pCi/L		05/06/22 14:04	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-2

Client Sample ID: EB-01

Lab Sample ID: 180-136321-8

Date Collected: 04/05/22 16:28

Matrix: Water

Date Received: 04/07/22 11:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0321	U	0.128	0.128	1.00	0.243	pCi/L	04/12/22 16:28	05/04/22 18:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.0		40 - 110					04/12/22 16:28	05/04/22 18:29	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.337	U	0.243	0.245	1.00	0.381	pCi/L	04/12/22 16:28	05/03/22 17:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.0		40 - 110					04/12/22 16:28	05/03/22 17:09	1
Y Carrier	86.7		40 - 110					04/12/22 16:28	05/03/22 17:09	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.369	U	0.275	0.276	5.00	0.381	pCi/L		05/06/22 14:04	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-2

Client Sample ID: APMW-10

Lab Sample ID: 180-136321-9

Date Collected: 04/05/22 10:54

Matrix: Water

Date Received: 04/07/22 11:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.39		0.346	0.368	1.00	0.337	pCi/L	04/12/22 16:28	05/04/22 18:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.3		40 - 110					04/12/22 16:28	05/04/22 18:29	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.72		0.338	0.373	1.00	0.379	pCi/L	04/12/22 16:28	05/03/22 17:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.3		40 - 110					04/12/22 16:28	05/03/22 17:10	1
Y Carrier	85.2		40 - 110					04/12/22 16:28	05/03/22 17:10	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	3.10		0.484	0.524	5.00	0.379	pCi/L		05/06/22 14:04	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-2

Client Sample ID: APMW-11
 Date Collected: 04/04/22 12:20
 Date Received: 04/07/22 11:10

Lab Sample ID: 180-136321-10
 Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.137	U	0.160	0.160	1.00	0.261	pCi/L	04/12/22 16:28	05/04/22 20:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.1		40 - 110					04/12/22 16:28	05/04/22 20:29	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.341	U	0.247	0.249	1.00	0.388	pCi/L	04/12/22 16:28	05/03/22 17:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.1		40 - 110					04/12/22 16:28	05/03/22 17:10	1
Y Carrier	86.0		40 - 110					04/12/22 16:28	05/03/22 17:10	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.478		0.294	0.296	5.00	0.388	pCi/L		05/06/22 14:04	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-2

Client Sample ID: APMW-12

Lab Sample ID: 180-136321-11

Date Collected: 04/04/22 13:40

Matrix: Water

Date Received: 04/07/22 11:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.212	U	0.190	0.191	1.00	0.293	pCi/L	04/12/22 16:28	05/04/22 20:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					04/12/22 16:28	05/04/22 20:29	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.528		0.263	0.267	1.00	0.389	pCi/L	04/12/22 16:28	05/03/22 17:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					04/12/22 16:28	05/03/22 17:10	1
Y Carrier	86.0		40 - 110					04/12/22 16:28	05/03/22 17:10	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.740		0.324	0.328	5.00	0.389	pCi/L		05/06/22 14:04	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-2

Client Sample ID: APMW-2D

Lab Sample ID: 180-136321-12

Date Collected: 04/05/22 09:38

Matrix: Water

Date Received: 04/07/22 11:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.141	U	0.168	0.169	1.00	0.276	pCi/L	04/12/22 16:28	05/04/22 20:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.0		40 - 110					04/12/22 16:28	05/04/22 20:29	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0238	U	0.238	0.238	1.00	0.431	pCi/L	04/12/22 16:28	05/03/22 17:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.0		40 - 110					04/12/22 16:28	05/03/22 17:10	1
Y Carrier	86.7		40 - 110					04/12/22 16:28	05/03/22 17:10	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.117	U	0.291	0.292	5.00	0.431	pCi/L		05/06/22 14:04	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-2

Client Sample ID: APMW-3D

Lab Sample ID: 180-136321-13

Date Collected: 04/05/22 13:05

Matrix: Water

Date Received: 04/07/22 11:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.385		0.230	0.233	1.00	0.328	pCi/L	04/12/22 16:28	05/04/22 20:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.8		40 - 110					04/12/22 16:28	05/04/22 20:29	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.469		0.235	0.238	1.00	0.343	pCi/L	04/12/22 16:28	05/03/22 17:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.8		40 - 110					04/12/22 16:28	05/03/22 17:10	1
Y Carrier	86.4		40 - 110					04/12/22 16:28	05/03/22 17:10	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.853		0.329	0.333	5.00	0.343	pCi/L		05/06/22 14:04	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-2

Client Sample ID: APMW-4D

Lab Sample ID: 180-136321-14

Date Collected: 04/05/22 14:50

Matrix: Water

Date Received: 04/07/22 11:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.820		0.263	0.274	1.00	0.275	pCi/L	04/12/22 16:28	05/04/22 20:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.0		40 - 110					04/12/22 16:28	05/04/22 20:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	6.27		0.532	0.785	1.00	0.338	pCi/L	04/12/22 16:28	05/03/22 17:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.0		40 - 110					04/12/22 16:28	05/03/22 17:10	1
Y Carrier	87.1		40 - 110					04/12/22 16:28	05/03/22 17:10	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	7.09		0.593	0.831	5.00	0.338	pCi/L		05/06/22 14:04	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-560010/22-A
Matrix: Water
Analysis Batch: 563515

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 560010

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.03270	U	0.121	0.121	1.00	0.232	pCi/L	04/12/22 16:31	05/04/22 20:32	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	
Ba Carrier	95.6		40 - 110				04/12/22 16:31		05/04/22 20:32	

Lab Sample ID: LCS 160-560010/1-A
Matrix: Water
Analysis Batch: 563515

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 560010

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	8.747		1.12	1.00	0.241	pCi/L	77	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	86.4		40 - 110						

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-560022/22-A
Matrix: Water
Analysis Batch: 563502

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 560022

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.02634	U	0.205	0.205	1.00	0.364	pCi/L	04/12/22 16:31	05/03/22 17:12	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	
Ba Carrier	95.6		40 - 110				04/12/22 16:31		05/03/22 17:12	
Y Carrier	87.5		40 - 110				04/12/22 16:31		05/03/22 17:12	

Lab Sample ID: LCS 160-560022/1-A
Matrix: Water
Analysis Batch: 563488

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 560022

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-228	8.65	7.852		0.962	1.00	0.374	pCi/L	91	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	86.4		40 - 110						
Y Carrier	84.9		40 - 110						

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136321-2

Rad

Prep Batch: 560010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136321-1	APMW-1R	Total/NA	Water	PrecSep-21	
180-136321-2	APMW-2	Total/NA	Water	PrecSep-21	
180-136321-3	APMW-3	Total/NA	Water	PrecSep-21	
180-136321-4	DUP-01	Total/NA	Water	PrecSep-21	
180-136321-5	DUP-02	Total/NA	Water	PrecSep-21	
180-136321-6	FB-01	Total/NA	Water	PrecSep-21	
180-136321-7	APMW-10D	Total/NA	Water	PrecSep-21	
180-136321-8	EB-01	Total/NA	Water	PrecSep-21	
180-136321-9	APMW-10	Total/NA	Water	PrecSep-21	
180-136321-10	APMW-11	Total/NA	Water	PrecSep-21	
180-136321-11	APMW-12	Total/NA	Water	PrecSep-21	
180-136321-12	APMW-2D	Total/NA	Water	PrecSep-21	
180-136321-13	APMW-3D	Total/NA	Water	PrecSep-21	
180-136321-14	APMW-4D	Total/NA	Water	PrecSep-21	
MB 160-560010/22-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-560010/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 560022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136321-1	APMW-1R	Total/NA	Water	PrecSep_0	
180-136321-2	APMW-2	Total/NA	Water	PrecSep_0	
180-136321-3	APMW-3	Total/NA	Water	PrecSep_0	
180-136321-4	DUP-01	Total/NA	Water	PrecSep_0	
180-136321-5	DUP-02	Total/NA	Water	PrecSep_0	
180-136321-6	FB-01	Total/NA	Water	PrecSep_0	
180-136321-7	APMW-10D	Total/NA	Water	PrecSep_0	
180-136321-8	EB-01	Total/NA	Water	PrecSep_0	
180-136321-9	APMW-10	Total/NA	Water	PrecSep_0	
180-136321-10	APMW-11	Total/NA	Water	PrecSep_0	
180-136321-11	APMW-12	Total/NA	Water	PrecSep_0	
180-136321-12	APMW-2D	Total/NA	Water	PrecSep_0	
180-136321-13	APMW-3D	Total/NA	Water	PrecSep_0	
180-136321-14	APMW-4D	Total/NA	Water	PrecSep_0	
MB 160-560022/22-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-560022/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
 Pittsburgh, PA 15238
 Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record



180-136321 Chain of Custody

15 Environment Testing
 America

Client Information					Sampler: Philip Evans/Rick H.	Lab PM: Brown, Shali																	
Client Contact: SCS Contacts					Phone: 850-336-0192	E-Mail: shall.brown@eurofinset.com																	
Company: SCS					Analysis Requested										Job #:								
Address: 3535 Colonnade Pkwy Bin S 530 EC															Due Date Requested:								
City: Birmingham					TAT Requested (days):											Preservation Codes:							
State, Zip: AL, 35243					PO #:											A - HCL	M - Hexane						
Phone: 205-992-6283					WO #:											B - NaOH	N - None						
Email: SCS Contacts					Project #: 18020186											C - Zn Acetate	O - AsNaO2						
Project Name: Plant Watson					SSOW#:											D - Nitric Acid	P - Na2O4S						
Site: Ash Pond					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)	Perform MS/MSD (Yes or No)	2540C Total Dissolved Solids	300_28Day Chloride Fluoride Sulfate Bromide	6020B/7470 Custom 23 (App/III/APP/IV-9) + Mercury	+ Fe Mg Na Al Mn K Sr Si and Silica	353.2 Nitrate/Nitrite NOX (pres)	5310C Total Organic Carbon	2320B Alkalinity, Total, Carb, Bicarb	9316_Ra228 Radium 228	9320_Ra228 Radium 228	Combined RAD	2540 Total Suspended Solids	Total Number of containers	Other:
Sample Identification					Preservation Code:	Lot #s	Special Instructions/Note:																
APMW-1R					4/4/22	1730	G	GW			X	X	X	X	X	X	X	X	X	X		40 ml (H2SO4) - 0000276386	
APMW-2					4/5/22	1045	G	GW			X	X	X	X	X	X	X	X	X	X		1L (HNO3) - 0000280251	
APMW-3					4/5/22	1208	G	GW			X	X	X	X	X	X	X	X	X	X		250 (H2SO4) - 217416	
APMW-4								GW			X	X	X	X	X	X	X	X	X	X		500 (None) - 0322101G	
DUP-01					4/4/22	1630	G	GW			X	X	X	X	X	X	X	X	X	X		250 (HNO3) - 000028251	
DUP-02					4/5/22	0945	G	GW			X	X	X	X	X	X	X	X	X	X			
FB-01					4/5/22	1455	G	GW			X	X	X	X	X	X	X	X	X	X			
APMW-10D					4/5/22	1613	G	GW			X	X	X	X	X	X	X	X	X	X			
EB-01					4/5/22	1628	G	GW			X	X	X	X	X	X	X	X	X	X			
APMW-10					4/5/22	1054	G	GW			X	X	X	X	X	X	X	X	X	X			
APMW-11					4/4/22	1220	G	GW			X	X	X	X	X	X	X	X	X	X			
Possible Hazard Identification															Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)								
<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															<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)															Special Instructions/QC Requirements:								
Empty Kit Relinquished by:					Date:	Time:	Method of Shipment:																
Relinquished by:					Date/Time: 4/5/22 1700	Company: RDH	Received by:	Date/Time: 4/13/22 900	Company: ERTAS #														
Relinquished by:					Date/Time:	Company:	Received by:	Date/Time:	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:							

Chain of Custody Record



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Client Information	Sampler: <u>Philip E. / Rick H.</u>	Lab PM: Brown, Shali	Carrier Tracking No(s):	COC No:
Client Contact	Phone: <u>850-336-0192</u>	E-Mail: shall.brown@eurofinset.com		Page:
SCS Contacts				
Company: SCS	Analysis Requested			Job #:

Address: 3535 Colonnade Pkwy Bin S 530 EC	Due Date Requested:	Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 2540C Total Dissolved Solids 300_28Day Chloride Fluoride Sulfate Bromide 6020B/7470 Custom 23 (App/III/APP/IV+9) + Mercury + Fe Mg Na Al Mn K Sr Si and Silica 353.2 Nitrate/Nitrite NOX (pres) 5310C Total Organic Carbon 2320B Alkalinity, Total, Carb, Bicarb 8315_Ra228 Radium 228 9320_Ra228 Radium 228 Combined RAD 2640 Total Suspended Solids	Total Number of containers	Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - As/NaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:				
City: Birmingham	TAT Requested (days):			Lot #s Special Instructions/Note:				
State, Zip: AL, 35243	PO #:							
Phone: 205-992-6283	WO #:							
Email: SCS Contacts	Project #: 18020186							
Project Name: Plant Watson	SSOW#:							
Site: Ash Pond								
Sample Identification	Sample Date				Sample Time	Sample Type (C=comp, G=grab)	MATRIX (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code:

APMW-12	4/1/22	1340	G	GW	X	X	X	X	X	X	X	X	X	X	X	40-1(H2SO4) - 0000276386
				GW	X	X	X	X	X	X	X	X	X	X	X	1L(HNO3) - 0000280251
				GW	X	X	X	X	X	X	X	X	X	X	X	250(H2SO4) - 217416
				GW	X	X	X	X	X	X	X	X	X	X	X	500(NONE) - 03221619
				GW	X	X	X	X	X	X	X	X	X	X	X	250(HNO3) - 0000280251
APMW-2D	4/5/22	0938	G	GW	X	X	X	X	X	X	X	X	X	X	X	
APMW-3D	4/5/22	1305	G	GW	X	X	X	X	X	X	X	X	X	X	X	
APMW-4D	4/5/22	1450	G	GW	X	X	X	X	X	X	X	X	X	X	X	
				GW	X	X	X	X	X	X	X	X	X	X	X	
				GW	X	X	X	X	X	X	X	X	X	X	X	
				GW	X	X	X	X	X	X	X	X	X	X	X	

Possible Hazard Identification <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) <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)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date: 4/5/22	Time: 1700	Company: RDIH	Received By:	Date/Time: 4/7/22 900	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	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:
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FedEx®

Do Not Lift Using This Tag

180-136321 Waybill

ID:PNSA (850) 336-0192
IRONMENTAL
VE DR
FL 32571
STATES US

SHIP DATE: 06APR22
ACTING: 19.00
CAD: 6994785/85FE2300
DIRS: 17X12X15 IN
BILL RECEIPT

Part # 156297-435 RPTD EXP 09/22
58DJ2/BDF9/TE48

**ROPHINS TEST AMERICA
1 ALPHA DR RIDC PARK**

TTSBURGH PA 15238
REF: 98-9988

98
10:30
4553
04.07
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**FedEx
Express**



J2210220105010

TRK# 2717-3633 4553
0201

**THU - 07 APR 10:30A
PRIORITY OVERNIGHT
AHS
15238
PA-US PIT**

XN AGGA

Uncorrected temp 5.2 °C
Thermometer ID 16
CF -0.1
PT-WI-SR-001 effective 1/18/18



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Do Not Lift Using This Tag

ORIGIN ID: PMSA (850) 336-0192
RDH ENVIRONMENTAL
5720 DOVE DR
MILTON, FL 32571
UNITED STATES US

SHIP DATE: 06APR22
ACTWGT: 35.55 LB
CAD: 6994795/SSFE2300
DIMS: 25x14x13 IN
BILL RECIPIENT

Part # 156297-435 RRDW2 EXP 09/22
56DJ2/BF9/FE4A
Z21022010501

EUROPHINS TEST AMERICA
301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238

(888) 888-8888
INV:
PO:



TRK# 2717 3648 4127
0201
THU - 07 APR 10:30A
PRIORITY OVERNIGHT

XN-AGCA
15238
PA-US PIT

Uncorrected temp _____ °C
Thermometer ID _____
CF-014 Initials _____
PT-WI-SR-001 effective 11/8/18

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FedEx

FedEx

7-98
10:30
9-16
04:07
A

Do Not Lift Using This Tag

Do Not Lift Using This Tag

Part # 156297-435 RRDW2 EXP 09/22

Part # 156297-435 RRDW2 EXP

ORIGIN ID:PNSA (850) 336-0192
RDH ENVIRONMENTAL
5720 DOVE DR
MILTON, FL 32571
UNITED STATES US

SHIP DATE: 06APR22
ACTWGT: 27.15 LB
CAD: 6994795/S6FE2300
DIMS: 24X13X12 IN
BILL RECIPIENT

ORIGIN ID:PNSA (850) 336-0192
RDH ENVIRONMENTAL
5720 DOVE DR
MILTON, FL 32571
UNITED STATES US

EUROPHINS TEST AMERICA
301 ALPHA DR RIDC PARK
PITTSBURGH PA 15238

EUROPHINS TEST AMERICA
301 ALPHA DR RIDC PARK
PITTSBURGH PA 15238

(888) 888-8888
TRK# 2717 3641 9410

(888) 888-8888
TRK# 2717 3669 0518

FedEx
Express

FedEx
Express



THU - 07 APR 10:30A
PRIORITY OVERNIGHT
AHS 15238
PA-US PIT

THU - 07 APR 10:30A
PRIORITY OVERNIGHT
AHS 15238
PA-US PIT

XN AGCA

XN AGCA

Uncorrected temp
Thermometer ID

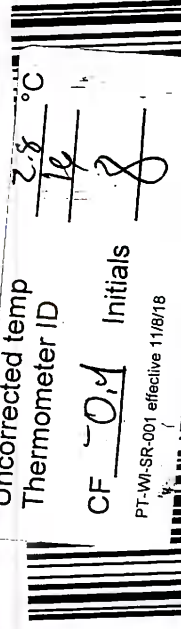
Uncorrected temp
Thermometer ID

CF OM Initials S

CF OM Initials S

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

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



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Chain of Custody Record



Environment Testing
America



Client Information (Sub Contract Lab)	Lab PM: Brown, Shali	Carrier Tracking No(s): 180-458877-1	COC No: 180-458877-1	Page: Page 1 of 2									
Client Contact: Shipping/Receiving	E-Mail: Shali.Brown@eurofins.com	State of Origin: Georgia	Job #: 180-136321-2	Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - H2SO4 S - Amchlor H - Ascorbic Acid T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 L - EDTA Z - other (specify) Other:									
Company: Test/America 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 Watson Ash Pond													
Site: 18020186													
SSOW#:													
Due Date Requested: 4/17/2022													
TAT Requested (days):													
PO #:													
WO #:													
Field Filtered Sample (Yes or No)													
Perform MS/MSD (Yes or No)													
9320_Ra226/Presep_0 Radium 228													
9315_Ra226/Presep_21 Radium 226													
Radium-228													
Radium-228													
Total Number of Containers													
Special Instructions/Note:													
Analysis Requested													
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/soil, BT=Issue, A=Air)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9320_Ra226/Presep_0 Radium 228	9315_Ra226/Presep_21 Radium 226	Radium-228	Radium-228	Total Number of Containers	Special Instructions/Note:
APMW-1R (180-136321-1)	4/4/22	17:30 Eastern	Water	Water		X	X	X	X			2	
APMW-2 (180-136321-2)	4/5/22	10:45 Eastern	Water	Water		X	X	X	X			2	
APMW-3 (180-136321-3)	4/5/22	12:08 Eastern	Water	Water		X	X	X	X			2	
DUP-01 (180-136321-4)	4/4/22	16:30 Eastern	Water	Water		X	X	X	X			2	
DUP-02 (180-136321-5)	4/5/22	09:45 Eastern	Water	Water		X	X	X	X			2	
FB-01 (180-136321-6)	4/5/22	14:55 Eastern	Water	Water		X	X	X	X			2	
APMW-10D (180-136321-7)	4/5/22	16:13 Eastern	Water	Water		X	X	X	X			2	
EB-01 (180-136321-8)	4/5/22	16:28 Eastern	Water	Water		X	X	X	X			2	
APMW-10 (180-136321-9)	4/5/22	10:54 Eastern	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 out 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													
Special Instructions/QC Requirements:													
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)													
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months													
Empty Kit Relinquished by:													
Date/Time: _____ Method of Shipment:													
Relinquished by: <i>MO</i> FED EX Received by: FED EX Date/Time: _____ Company:													
Relinquished by: FED EX Received by: <i>Autumn Johnson</i> Date/Time: _____ Company:													
Relinquished by: _____ Received by: Autumn R. Johnson Date/Time: APR 11 2022 09:00 EST Company:													
Custody Seals Intact: _____ Cooler Temperature(s) °C and Other Remarks:													
Δ Yes Δ No													

Chain of Custody Record

Client Information (Sub Contract Lab)		Lab PM Brown, Shali	Carrier Tracking No(s): 180-458877.2	COC No: 180-458877.2
Client Contact Shipping/Receiving		E-Mail Shali.Brown@et.eurofins.com	State of Origin: Georgia	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): 180-136321-2		
Address 13715 Rider Trail North,		Job #: 180-136321-2		
City Earth City		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Y - EDA Z - other (specify)		
State, Zip MO, 63045		Other:		
Phone 314-298-9566(Tel) 314-298-8757(Fax)				
Email:				
Project # 18020186				
Site Plant Watson Ash Pond				
Due Date Requested: 4/17/2022				
TAT Requested (days):				
PO #				
WO #				
Sample Date				
Sample Time				
Sample Type (C=comp, G=grab)				
Matrix (W=water, S=solid, O=soil, A=air, T=tissue)				
Preservation Code:				
Sample Identification - Client ID (Lab ID)				
APMW-11 (180-136321-10)	4/4/22	12:20 Eastern	Water	Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>
APMW-12 (180-136321-11)	4/4/22	13:40 Eastern	Water	Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/>
APMW-2D (180-136321-12)	4/5/22	09:38 Eastern	Water	9320 Ra226/PreSep_0 Radium 228
APMW-3D (180-136321-13)	4/5/22	13:05 Eastern	Water	9315 Ra226/PreSep_21 Radium 226
APMW-4D (180-136321-14)	4/5/22	14:50 Eastern	Water	Ra226Ra228 GFC/ Combined Radium 226 and Radium-228
				Total Number of containers
				Special Instructions/Note:
<p>Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon out 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>				
Possible Hazard Identification				
Unconfirmed				
Deliverable Requested: I, II, III, IV, Other (specify)				
Primary Deliverable Rank: 2				
Empty Kit Relinquished by:				
Date: 4-8-22 17:00				
Relinquished by: <i>[Signature]</i>				
Relinquished by: FEDEX				
Relinquished by: FEDEX				
Relinquished by:				
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No				
Custody Seal No.:				
Cooler Temperature(s) °C and Other Remarks				
Received by: FEDEX				
Received by: <i>[Signature]</i>				
Received by: Autumn R. Johnson				
Date: APR 11 2022 09:00				
Date/Time: ETL-STC				
Date/Time:				
Method of Shipment:				
Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months				
Special Instructions/QC Requirements:				
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-136321-2

Login Number: 136321

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Jodis, Matthew V

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: 180-136321-2

Login Number: 136321

List Number: 2

Creator: Johnson, Autumn R

List Source: Eurofins St. Louis

List Creation: 04/11/22 04:05 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	



ANALYTICAL REPORT

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-136424-1

Client Project/Site: Plant Watson Ash Pond

For:

Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Robert Singleton



Authorized for release by:
4/27/2022 10:22:21 PM

Shali Brown, Project Manager II
(615)301-5031

Shali.Brown@et.eurofinsus.com

LINKS

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results through
TotalAccess

Have a Question?



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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Job ID: 180-136424-1

Laboratory: Eurofins Pittsburgh

Narrative

**Job Narrative
180-136424-1**

Comments

No additional comments.

Receipt

The samples were received on 4/8/2022 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 3.9° C, 4.3° C, 4.6° C, 4.7° C and 5.4° C.

GC Semi VOA

Method 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: PZ-4 (180-136424-1), APMW-4 (180-136424-4), APMW-5 (180-136424-5), APMW-6R (180-136424-6), APMW-7 (180-136424-7), APMW-8 (180-136424-8), APMW-9 (180-136424-9) and DUP-03 (180-136424-10), APMW-13 (180-136424-12), APMW-14 (180-136424-13), APMW-15 (180-136424-14) and APMW-16 (180-136424-15). Elevated reporting limits (RLs) are provided. As stated in the SOP, due to the sample's conductivity reading, a dilution was performed on the sample's initial analysis, which is an indication of the amount of anions present in the samples. Any non-detection will have elevated reporting levels. Even though the target anions were not detected in the dilution analysis, this is the lowest possible level of detection that can be obtained from the samples' matrix, because there are other high levels of non-target anions present in this sample which would contaminate the IC system, & render it non-operational for hours or even days. As a result, all non-detected anion's values are reported at these elevated reporting levels:

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

Metals

Method 6020B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 180-395483 and analytical batch 180-395659 were outside control limits for potassium. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6020B: The post digestion spike % recovery for silicon and silicon dioxide associated with batch 180-395659 was outside of control limits. The associated sample is: PZ-4 (180-136424-1).

Methods 200.8, 6020A, 6020B: The ICB for AB# 395659 recovered above half the RL for aluminum. Aluminum is a common lab contaminate; therefore, the data has been reported. (ICB 180-395659/6)

Method 6020B: The following sample was diluted to bring the concentration of target analytes within the calibration range: APMW-5D (180-136424-16). Elevated reporting limits (RLs) are provided.

Method 6020B: The following samples were diluted due to the nature of the sample matrix: PZ-4 (180-136424-1), (180-136424-E-1-B MS ^5), (180-136424-E-1-C MSD ^5), (180-136424-E-1-A PDS), (180-136424-E-1-A SD ^25), APMW-4 (180-136424-4), APMW-5 (180-136424-5), APMW-6R (180-136424-6), APMW-7 (180-136424-7), APMW-8 (180-136424-8), APMW-9 (180-136424-9), DUP-03 (180-136424-10), APMW-14 (180-136424-13), APMW-15 (180-136424-14) and APMW-16 (180-136424-15). Elevated reporting limits (RLs) are provided.

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

General Chemistry

Method 353.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 180-395642 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method SM 5310C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 180-395080 and 180-395223. An LCS/LCSD pair was analyzed instead.

Method SM 5310C: The following samples were analyzed in duplicate: PZ-4 (180-136424-1), PZ-4 (180-136424-1), APMW-4 (180-136424-4), APMW-5 (180-136424-5), APMW-7 (180-136424-7), APMW-9 (180-136424-9), DUP-03 (180-136424-10), DUP-04

Case Narrative

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Job ID: 180-136424-1 (Continued)

Laboratory: Eurofins Pittsburgh (Continued)

(180-136424-11) and APMW-15 (180-136424-14), APMW-16 (180-136424-15). The RPD between the two replicates was > 10%. However, the difference between duplicate analyses was less than the RL. Therefore, samples will be reported.

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

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Definitions/Glossary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

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
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.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

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 Watson Ash Pond

Job ID: 180-136424-1

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	06-27-22
California	State	2891	04-30-22
Connecticut	State	PH-0688	09-30-22
Florida	NELAP	E871008	06-30-22
Georgia	State	PA 02-00416	04-30-22
Illinois	NELAP	004375	06-30-22
Kansas	NELAP	E-10350	03-31-22 *
Kentucky (UST)	State	162013	04-30-22
Kentucky (WW)	State	KY98043	12-31-22
Louisiana	NELAP	04041	06-30-22
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-22
Nevada	State	PA00164	08-31-22
New Hampshire	NELAP	2030	04-04-23
New Jersey	NELAP	PA005	06-30-23
New York	NELAP	11182	04-02-22 *
North Carolina (WW/SW)	State	434	12-31-22
North Dakota	State	R-227	04-30-22
Oregon	NELAP	PA-2151	02-07-23
Pennsylvania	NELAP	02-00416	04-30-22
Rhode Island	State	LAO00362	12-31-21 *
South Carolina	State	89014	06-30-22
Texas	NELAP	T104704528	03-31-23
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-22
Virginia	NELAP	10043	09-15-22
West Virginia DEP	State	142	01-31-23
Wisconsin	State	998027800	08-31-22

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

Eurofins Pittsburgh

Sample Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-136424-1	PZ-4	Water	04/06/22 17:45	04/08/22 09:00
180-136424-2	EB-02	Water	04/07/22 08:58	04/08/22 09:00
180-136424-3	FB-02	Water	04/07/22 08:15	04/08/22 09:00
180-136424-4	APMW-4	Water	04/06/22 09:02	04/08/22 09:00
180-136424-5	APMW-5	Water	04/06/22 14:50	04/08/22 09:00
180-136424-6	APMW-6R	Water	04/07/22 10:47	04/08/22 09:00
180-136424-7	APMW-7	Water	04/06/22 15:15	04/08/22 09:00
180-136424-8	APMW-8	Water	04/06/22 10:36	04/08/22 09:00
180-136424-9	APMW-9	Water	04/06/22 08:31	04/08/22 09:00
180-136424-10	DUP-03	Water	04/06/22 14:15	04/08/22 09:00
180-136424-11	DUP-04	Water	04/07/22 07:10	04/08/22 09:00
180-136424-12	APMW-13	Water	04/07/22 13:14	04/08/22 09:00
180-136424-13	APMW-14	Water	04/07/22 12:25	04/08/22 09:00
180-136424-14	APMW-15	Water	04/07/22 10:43	04/08/22 09:00
180-136424-15	APMW-16	Water	04/07/22 09:43	04/08/22 09:00
180-136424-16	APMW-5D	Water	04/06/22 13:25	04/08/22 09:00
180-136424-17	APMW-6D	Water	04/07/22 08:10	04/08/22 09:00
180-136424-18	APMW-8D	Water	04/06/22 12:30	04/08/22 09:00



Method Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
EPA 353.2	Nitrogen, Nitrate-Nitrite	EPA	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
SM 5310C	Total Organic Carbon	SM	TAL PIT
SM2320 B	Alkalinity, Total	SM18	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

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

Laboratory References:

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

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Client Sample ID: PZ-4

Lab Sample ID: 180-136424-1

Date Collected: 04/06/22 17:45

Matrix: Water

Date Received: 04/08/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5			396178	04/21/22 20:08	JRB	TAL PIT
Instrument ID: CHICS2100B										
Total/NA	Analysis	300.0		5			395869	04/19/22 20:34	JRB	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	395483	04/14/22 14:39	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395659	04/15/22 19:34	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	395483	04/14/22 14:39	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		5			396006	04/16/22 11:05	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	396036	04/20/22 08:07	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			396234	04/21/22 11:00	KFS	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	395642	04/15/22 13:37	SNR	TAL PIT
Instrument ID: ASTORIA2										
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	394988	04/11/22 14:34	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 5310C		1			395223	04/12/22 18:44	CMT	TAL PIT
Instrument ID: SAM										
Total/NA	Analysis	SM2320 B		1			395077	04/09/22 20:40	CMT	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: EB-02

Lab Sample ID: 180-136424-2

Date Collected: 04/07/22 08:58

Matrix: Water

Date Received: 04/08/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			396178	04/21/22 20:54	JRB	TAL PIT
Instrument ID: CHICS2100B										
Total/NA	Analysis	300.0		1			395869	04/19/22 21:28	JRB	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	395483	04/14/22 14:39	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395659	04/15/22 19:59	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	395483	04/14/22 14:39	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			396006	04/16/22 12:15	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	396036	04/20/22 08:07	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			396234	04/21/22 11:03	KFS	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	395642	04/15/22 13:38	SNR	TAL PIT
Instrument ID: ASTORIA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	394988	04/11/22 14:34	JCR	TAL PIT
Instrument ID: NOEQUIP										

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Client Sample ID: EB-02
Date Collected: 04/07/22 08:58
Date Received: 04/08/22 09:00

Lab Sample ID: 180-136424-2
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	SM 5310C		1			395080	04/09/22 16:32	CMT	TAL PIT
Total/NA	Analysis	SM2320 B		1	50 mL	50 mL	396119	04/20/22 11:56	HEK	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: FB-02
Date Collected: 04/07/22 08:15
Date Received: 04/08/22 09:00

Lab Sample ID: 180-136424-3
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	300.0		1			396178	04/21/22 21:05	JRB	TAL PIT
Instrument ID: CHICS2100B										
Total/NA	Analysis	300.0		1			395869	04/19/22 21:42	JRB	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	395483	04/14/22 14:39	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395659	04/15/22 20:02	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	395483	04/14/22 14:39	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			396006	04/16/22 12:18	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	396036	04/20/22 08:07	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			396234	04/21/22 11:08	KFS	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	395642	04/15/22 13:40	SNR	TAL PIT
Instrument ID: ASTORIA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	394988	04/11/22 14:34	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 5310C		1			395080	04/09/22 16:45	CMT	TAL PIT
Instrument ID: SAM										
Total/NA	Analysis	SM2320 B		1			395077	04/09/22 15:35	CMT	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: APMW-4
Date Collected: 04/06/22 09:02
Date Received: 04/08/22 09:00

Lab Sample ID: 180-136424-4
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	300.0		5			396178	04/21/22 21:16	JRB	TAL PIT
Instrument ID: CHICS2100B										
Total/NA	Analysis	300.0		5			395869	04/19/22 21:55	JRB	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	395483	04/14/22 14:39	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395659	04/15/22 20:06	RSK	TAL PIT
Instrument ID: A										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Client Sample ID: APMW-4

Lab Sample ID: 180-136424-4

Date Collected: 04/06/22 09:02

Matrix: Water

Date Received: 04/08/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	395483	04/14/22 14:39	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		5			396006	04/16/22 12:22	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Prep	7470A			50 mL	50 mL	396036	04/20/22 08:07	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			396234	04/21/22 11:09	KFS	TAL PIT
		Instrument ID: HGY								
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	395642	04/15/22 13:41	SNR	TAL PIT
		Instrument ID: ASTORIA2								
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	394988	04/11/22 14:34	JCR	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 5310C		1			395223	04/12/22 18:57	CMT	TAL PIT
		Instrument ID: SAM								
Total/NA	Analysis	SM2320 B		1			395077	04/09/22 19:29	CMT	TAL PIT
		Instrument ID: PCTITRATOR								

Client Sample ID: APMW-5

Lab Sample ID: 180-136424-5

Date Collected: 04/06/22 14:50

Matrix: Water

Date Received: 04/08/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		25			396178	04/21/22 21:28	JRB	TAL PIT
		Instrument ID: CHICS2100B								
Total/NA	Analysis	300.0		25			395869	04/19/22 22:50	JRB	TAL PIT
		Instrument ID: INTEGRION								
Total Recoverable	Prep	3005A			25 mL	25 mL	395483	04/14/22 14:39	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395659	04/15/22 20:21	RSK	TAL PIT
		Instrument ID: A								
Total Recoverable	Prep	3005A			25 mL	25 mL	395483	04/14/22 14:39	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		5			396006	04/16/22 12:26	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Prep	7470A			50 mL	50 mL	396036	04/20/22 08:07	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			396234	04/21/22 11:10	KFS	TAL PIT
		Instrument ID: HGY								
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	395642	04/15/22 13:43	SNR	TAL PIT
		Instrument ID: ASTORIA2								
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	395009	04/11/22 19:01	JCR	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 5310C		1			395223	04/12/22 20:21	CMT	TAL PIT
		Instrument ID: SAM								
Total/NA	Analysis	SM2320 B		1	10 mL	10 mL	395892	04/14/22 18:17	CMT	TAL PIT
		Instrument ID: PCTITRATOR								

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Client Sample ID: APMW-6R

Lab Sample ID: 180-136424-6

Date Collected: 04/07/22 10:47

Matrix: Water

Date Received: 04/08/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			396178	04/21/22 22:02	JRB	TAL PIT
Instrument ID: CHICS2100B										
Total/NA	Analysis	300.0		10			395869	04/19/22 23:17	JRB	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	395483	04/14/22 14:39	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395659	04/15/22 20:35	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	395483	04/14/22 14:39	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		5			396006	04/16/22 12:29	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	396036	04/20/22 08:07	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			396234	04/21/22 11:11	KFS	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	395642	04/15/22 13:45	SNR	TAL PIT
Instrument ID: ASTORIA2										
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	394988	04/11/22 14:34	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 5310C		1			395080	04/09/22 19:54	CMT	TAL PIT
Instrument ID: SAM										
Total/NA	Analysis	SM2320 B		1			395077	04/09/22 20:30	CMT	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: APMW-7

Lab Sample ID: 180-136424-7

Date Collected: 04/06/22 15:15

Matrix: Water

Date Received: 04/08/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			396178	04/21/22 22:13	JRB	TAL PIT
Instrument ID: CHICS2100B										
Total/NA	Analysis	300.0		10			395869	04/19/22 23:44	JRB	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	395483	04/14/22 14:39	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395659	04/15/22 20:50	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	395483	04/14/22 14:39	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		5			396006	04/16/22 12:33	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	396036	04/20/22 08:07	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			396234	04/21/22 11:12	KFS	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	395642	04/15/22 13:49	SNR	TAL PIT
Instrument ID: ASTORIA2										
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	394988	04/11/22 14:34	JCR	TAL PIT
Instrument ID: NOEQUIP										

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Client Sample ID: APMW-7

Lab Sample ID: 180-136424-7

Date Collected: 04/06/22 15:15

Matrix: Water

Date Received: 04/08/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5310C		1			395223	04/12/22 20:34	CMT	TAL PIT
Total/NA	Analysis	SM2320 B		1	10 mL	10 mL	395892	04/14/22 18:25	CMT	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: APMW-8

Lab Sample ID: 180-136424-8

Date Collected: 04/06/22 10:36

Matrix: Water

Date Received: 04/08/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			396178	04/21/22 22:25	JRB	TAL PIT
Instrument ID: CHICS2100B										
Total/NA	Analysis	300.0		10			395869	04/20/22 00:11	JRB	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	395483	04/14/22 14:39	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395659	04/15/22 21:12	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	395483	04/14/22 14:39	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		5			396006	04/16/22 12:47	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	396036	04/20/22 08:07	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			396234	04/21/22 11:13	KFS	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	395642	04/15/22 13:56	SNR	TAL PIT
Instrument ID: ASTORIA2										
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	394988	04/11/22 14:34	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 5310C		1			395080	04/09/22 17:51	CMT	TAL PIT
Instrument ID: SAM										
Total/NA	Analysis	SM2320 B		1	10 mL	10 mL	395892	04/14/22 16:55	CMT	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: APMW-9

Lab Sample ID: 180-136424-9

Date Collected: 04/06/22 08:31

Matrix: Water

Date Received: 04/08/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5			396178	04/21/22 22:36	JRB	TAL PIT
Instrument ID: CHICS2100B										
Total/NA	Analysis	300.0		5			395869	04/20/22 00:38	JRB	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	395483	04/14/22 14:39	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395659	04/15/22 21:26	RSK	TAL PIT
Instrument ID: A										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Client Sample ID: APMW-9

Lab Sample ID: 180-136424-9

Date Collected: 04/06/22 08:31

Matrix: Water

Date Received: 04/08/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	395483	04/14/22 14:39	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		5			396006	04/16/22 13:02	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Prep	7470A			50 mL	50 mL	396036	04/20/22 08:07	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			396234	04/21/22 11:14	KFS	TAL PIT
		Instrument ID: HGY								
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	395642	04/15/22 13:57	SNR	TAL PIT
		Instrument ID: ASTORIA2								
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	394988	04/11/22 14:34	JCR	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 5310C		1			395080	04/09/22 18:03	CMT	TAL PIT
		Instrument ID: SAM								
Total/NA	Analysis	SM2320 B		1	10 mL	10 mL	395892	04/14/22 16:47	CMT	TAL PIT
		Instrument ID: PCTITRATOR								

Client Sample ID: DUP-03

Lab Sample ID: 180-136424-10

Date Collected: 04/06/22 14:15

Matrix: Water

Date Received: 04/08/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			396178	04/21/22 22:47	JRB	TAL PIT
		Instrument ID: CHICS2100B								
Total/NA	Analysis	300.0		10			395869	04/20/22 01:32	JRB	TAL PIT
		Instrument ID: INTEGRION								
Total Recoverable	Prep	3005A			25 mL	25 mL	395483	04/14/22 14:39	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395659	04/15/22 21:41	RSK	TAL PIT
		Instrument ID: A								
Total Recoverable	Prep	3005A			25 mL	25 mL	395483	04/14/22 14:39	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		5			396006	04/16/22 13:06	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Prep	7470A			50 mL	50 mL	396036	04/20/22 08:07	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			396234	04/21/22 11:15	KFS	TAL PIT
		Instrument ID: HGY								
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	395642	04/15/22 13:59	SNR	TAL PIT
		Instrument ID: ASTORIA2								
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	394988	04/11/22 14:34	JCR	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 5310C		1			395223	04/12/22 17:52	CMT	TAL PIT
		Instrument ID: SAM								
Total/NA	Analysis	SM2320 B		1			395077	04/09/22 21:24	CMT	TAL PIT
		Instrument ID: PCTITRATOR								

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Client Sample ID: DUP-04
Date Collected: 04/07/22 07:10
Date Received: 04/08/22 09:00

Lab Sample ID: 180-136424-11
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	300.0		1			395866	04/19/22 20:29	JRB	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	395483	04/14/22 14:39	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395659	04/15/22 21:55	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	396036	04/20/22 08:07	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			396234	04/21/22 11:16	KFS	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	395642	04/15/22 14:00	SNR	TAL PIT
Instrument ID: ASTORIA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	394988	04/11/22 14:34	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 5310C		1			395080	04/09/22 20:06	CMT	TAL PIT
Instrument ID: SAM										
Total/NA	Analysis	SM2320 B		1			395395	04/13/22 21:59	CMT	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: APMW-13
Date Collected: 04/07/22 13:14
Date Received: 04/08/22 09:00

Lab Sample ID: 180-136424-12
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	300.0		5			395866	04/19/22 16:28	JRB	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	395483	04/14/22 14:39	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395659	04/15/22 21:59	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	396036	04/20/22 08:07	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			396234	04/21/22 11:17	KFS	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	395642	04/15/22 14:02	SNR	TAL PIT
Instrument ID: ASTORIA2										
Total/NA	Analysis	SM 2540C		1	25 mL	100 mL	394988	04/11/22 14:34	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 5310C		1			395080	04/09/22 21:48	CMT	TAL PIT
Instrument ID: SAM										
Total/NA	Analysis	SM2320 B		1			395077	04/09/22 17:33	CMT	TAL PIT
Instrument ID: PCTITRATOR										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Client Sample ID: APMW-14

Lab Sample ID: 180-136424-13

Date Collected: 04/07/22 12:25

Matrix: Water

Date Received: 04/08/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			395866	04/19/22 19:26	JRB	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	395483	04/14/22 14:39	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395659	04/15/22 22:02	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	395483	04/14/22 14:39	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		5			396006	04/16/22 13:09	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	396036	04/20/22 08:07	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			396234	04/21/22 11:21	KFS	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	395642	04/15/22 14:04	SNR	TAL PIT
Instrument ID: ASTORIA2										
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	394988	04/11/22 14:34	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 5310C		1			395080	04/09/22 22:01	CMT	TAL PIT
Instrument ID: SAM										
Total/NA	Analysis	SM2320 B		1			395077	04/09/22 20:22	CMT	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: APMW-15

Lab Sample ID: 180-136424-14

Date Collected: 04/07/22 10:43

Matrix: Water

Date Received: 04/08/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5			395866	04/19/22 18:53	JRB	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	395483	04/14/22 14:39	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395659	04/15/22 22:17	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	395483	04/14/22 14:39	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		5			396006	04/16/22 13:13	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	396036	04/20/22 08:07	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			396234	04/21/22 11:22	KFS	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	395642	04/15/22 14:05	SNR	TAL PIT
Instrument ID: ASTORIA2										
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	394988	04/11/22 14:34	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 5310C		1			395223	04/12/22 20:47	CMT	TAL PIT
Instrument ID: SAM										
Total/NA	Analysis	SM2320 B		1	50 mL	50 mL	396119	04/20/22 12:00	HEK	TAL PIT
Instrument ID: NOEQUIP										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Client Sample ID: APMW-16

Lab Sample ID: 180-136424-15

Date Collected: 04/07/22 09:43

Matrix: Water

Date Received: 04/08/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5			395866	04/19/22 18:20	JRB	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	395483	04/14/22 14:39	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395659	04/15/22 22:28	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	395483	04/14/22 14:39	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		5			396006	04/16/22 13:17	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	396036	04/20/22 08:07	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			396234	04/21/22 11:23	KFS	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	395642	04/15/22 14:07	SNR	TAL PIT
Instrument ID: ASTORIA2										
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	394988	04/11/22 14:34	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 5310C		1			395223	04/12/22 21:12	CMT	TAL PIT
Instrument ID: SAM										
Total/NA	Analysis	SM2320 B		1	50 mL	50 mL	396119	04/20/22 11:12	HEK	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-5D

Lab Sample ID: 180-136424-16

Date Collected: 04/06/22 13:25

Matrix: Water

Date Received: 04/08/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			395866	04/19/22 18:05	JRB	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	395483	04/14/22 14:39	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395659	04/15/22 22:42	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	395483	04/14/22 14:39	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		5			396006	04/16/22 13:20	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	396036	04/20/22 08:07	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			396234	04/21/22 11:24	KFS	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	395642	04/15/22 14:16	SNR	TAL PIT
Instrument ID: ASTORIA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	394988	04/11/22 14:34	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 5310C		1			395080	04/09/22 18:29	CMT	TAL PIT
Instrument ID: SAM										
Total/NA	Analysis	SM2320 B		1	50 mL	50 mL	396119	04/20/22 11:58	HEK	TAL PIT
Instrument ID: NOEQUIP										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Client Sample ID: APMW-6D

Lab Sample ID: 180-136424-17

Date Collected: 04/07/22 08:10

Matrix: Water

Date Received: 04/08/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			395866	04/19/22 17:49	JRB	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	395483	04/14/22 14:39	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395659	04/15/22 22:53	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	396036	04/20/22 08:07	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			396234	04/21/22 11:25	KFS	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	395642	04/15/22 14:21	SNR	TAL PIT
Instrument ID: ASTORIA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	395009	04/11/22 19:01	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 5310C		1			395080	04/09/22 23:38	CMT	TAL PIT
Instrument ID: SAM										
Total/NA	Analysis	SM2320 B		1			395077	04/09/22 17:27	CMT	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: APMW-8D

Lab Sample ID: 180-136424-18

Date Collected: 04/06/22 12:30

Matrix: Water

Date Received: 04/08/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			395866	04/19/22 17:32	JRB	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	395483	04/14/22 14:39	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			395659	04/15/22 22:57	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	396036	04/20/22 08:07	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			396234	04/21/22 11:26	KFS	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	395642	04/15/22 14:23	SNR	TAL PIT
Instrument ID: ASTORIA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	394982	04/11/22 14:14	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 5310C		1			395080	04/09/22 19:40	CMT	TAL PIT
Instrument ID: SAM										
Total/NA	Analysis	SM2320 B		1	50 mL	50 mL	396119	04/20/22 11:10	HEK	TAL PIT
Instrument ID: NOEQUIP										

Laboratory References:

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

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Analyst References:

Lab: TAL PIT

Batch Type: Prep

KFS = Kelly Shannon

RJR = Ron Rosenbaum

Batch Type: Analysis

CMT = Cassandra Tlumac

HEK = Hope Kiesling

JCR = Jessica Rodgers

JRB = James Burzio

KFS = Kelly Shannon

RSK = Robert Kurtz

SNR = Sabra Richart



Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Client Sample ID: PZ-4

Lab Sample ID: 180-136424-1

Date Collected: 04/06/22 17:45

Matrix: Water

Date Received: 04/08/22 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	12		0.50	0.27	mg/L			04/21/22 20:08	5
Chloride	2300		5.0	3.6	mg/L			04/19/22 20:34	5
Fluoride	1.7		1.0	0.13	mg/L			04/21/22 20:08	5
Sulfate	260		5.0	3.8	mg/L			04/19/22 20:34	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.016		0.030	0.016	mg/L		04/14/22 14:39	04/15/22 19:34	1
Antimony	<0.00051		0.0020	0.00051	mg/L		04/14/22 14:39	04/15/22 19:34	1
Arsenic	0.21		0.0010	0.00028	mg/L		04/14/22 14:39	04/15/22 19:34	1
Barium	0.22		0.050	0.016	mg/L		04/14/22 14:39	04/16/22 11:05	5
Beryllium	<0.0014		0.013	0.0014	mg/L		04/14/22 14:39	04/16/22 11:05	5
Boron	13		0.40	0.30	mg/L		04/14/22 14:39	04/16/22 11:05	5
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/14/22 14:39	04/15/22 19:34	1
Calcium	310		2.5	0.64	mg/L		04/14/22 14:39	04/16/22 11:05	5
Chromium	<0.0015		0.0020	0.0015	mg/L		04/14/22 14:39	04/15/22 19:34	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		04/14/22 14:39	04/15/22 19:34	1
Lead	<0.00017		0.0010	0.00017	mg/L		04/14/22 14:39	04/15/22 19:34	1
Lithium	0.020	J	0.025	0.0042	mg/L		04/14/22 14:39	04/16/22 11:05	5
Molybdenum	0.53		0.015	0.00061	mg/L		04/14/22 14:39	04/15/22 19:34	1
Selenium	0.00079	J	0.0050	0.00074	mg/L		04/14/22 14:39	04/15/22 19:34	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/14/22 14:39	04/15/22 19:34	1
Iron	25		0.050	0.028	mg/L		04/14/22 14:39	04/15/22 19:34	1
Potassium	57	F1	0.50	0.16	mg/L		04/14/22 14:39	04/15/22 19:34	1
Magnesium	41		0.50	0.050	mg/L		04/14/22 14:39	04/15/22 19:34	1
Manganese	0.45		0.0050	0.0013	mg/L		04/14/22 14:39	04/15/22 19:34	1
Sodium	1300		2.5	0.92	mg/L		04/14/22 14:39	04/16/22 11:05	5
Silicon	7.2		0.50	0.062	mg/L		04/14/22 14:39	04/15/22 19:34	1
Strontium	4.0		0.025	0.0085	mg/L		04/14/22 14:39	04/16/22 11:05	5
SiO2, Silica	15		1.1	0.15	mg/L		04/14/22 14:39	04/15/22 19:34	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/20/22 08:07	04/21/22 11:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.065		0.10	0.065	mg/L			04/15/22 13:37	1
Total Dissolved Solids	4500		50	50	mg/L			04/11/22 14:34	1
Total Organic Carbon - Duplicates	2.4		1.0	0.51	mg/L			04/12/22 18:44	1
Total Alkalinity as CaCO3 to pH 4.5	180		5.0	5.0	mg/L			04/09/22 20:40	1
Bicarbonate Alkalinity as CaCO3	180		5.0	5.0	mg/L			04/09/22 20:40	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/09/22 20:40	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Client Sample ID: EB-02

Lab Sample ID: 180-136424-2

Date Collected: 04/07/22 08:58

Matrix: Water

Date Received: 04/08/22 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.053		0.10	0.053	mg/L			04/21/22 20:54	1
Chloride	<0.71		1.0	0.71	mg/L			04/19/22 21:28	1
Fluoride	<0.026		0.20	0.026	mg/L			04/21/22 20:54	1
Sulfate	<0.76		1.0	0.76	mg/L			04/19/22 21:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.016		0.030	0.016	mg/L		04/14/22 14:39	04/15/22 19:59	1
Antimony	<0.00051		0.0020	0.00051	mg/L		04/14/22 14:39	04/15/22 19:59	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		04/14/22 14:39	04/15/22 19:59	1
Barium	<0.0031		0.010	0.0031	mg/L		04/14/22 14:39	04/16/22 12:15	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		04/14/22 14:39	04/16/22 12:15	1
Boron	<0.060		0.080	0.060	mg/L		04/14/22 14:39	04/16/22 12:15	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/14/22 14:39	04/15/22 19:59	1
Calcium	<0.13		0.50	0.13	mg/L		04/14/22 14:39	04/16/22 12:15	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/14/22 14:39	04/15/22 19:59	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		04/14/22 14:39	04/15/22 19:59	1
Lead	<0.00017		0.0010	0.00017	mg/L		04/14/22 14:39	04/15/22 19:59	1
Lithium	<0.00083		0.0050	0.00083	mg/L		04/14/22 14:39	04/16/22 12:15	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/14/22 14:39	04/15/22 19:59	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/14/22 14:39	04/15/22 19:59	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/14/22 14:39	04/15/22 19:59	1
Iron	<0.028		0.050	0.028	mg/L		04/14/22 14:39	04/15/22 19:59	1
Potassium	<0.16		0.50	0.16	mg/L		04/14/22 14:39	04/15/22 19:59	1
Magnesium	<0.050		0.50	0.050	mg/L		04/14/22 14:39	04/15/22 19:59	1
Manganese	<0.0013		0.0050	0.0013	mg/L		04/14/22 14:39	04/15/22 19:59	1
Sodium	<0.18		0.50	0.18	mg/L		04/14/22 14:39	04/16/22 12:15	1
Silicon	<0.062		0.50	0.062	mg/L		04/14/22 14:39	04/15/22 19:59	1
Strontium	<0.0017		0.0050	0.0017	mg/L		04/14/22 14:39	04/16/22 12:15	1
SiO2, Silica	<0.15		1.1	0.15	mg/L		04/14/22 14:39	04/15/22 19:59	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/20/22 08:07	04/21/22 11:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.065		0.10	0.065	mg/L			04/15/22 13:38	1
Total Dissolved Solids	<10		10	10	mg/L			04/11/22 14:34	1
Total Organic Carbon - Duplicates	<0.51		1.0	0.51	mg/L			04/09/22 16:32	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			04/20/22 11:56	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/20/22 11:56	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/20/22 11:56	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Client Sample ID: FB-02

Lab Sample ID: 180-136424-3

Date Collected: 04/07/22 08:15

Matrix: Water

Date Received: 04/08/22 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.059	J	0.10	0.053	mg/L			04/21/22 21:05	1
Chloride	<0.71		1.0	0.71	mg/L			04/19/22 21:42	1
Fluoride	0.052	J	0.20	0.026	mg/L			04/21/22 21:05	1
Sulfate	<0.76		1.0	0.76	mg/L			04/19/22 21:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.016		0.030	0.016	mg/L		04/14/22 14:39	04/15/22 20:02	1
Antimony	<0.00051		0.0020	0.00051	mg/L		04/14/22 14:39	04/15/22 20:02	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		04/14/22 14:39	04/15/22 20:02	1
Barium	<0.0031		0.010	0.0031	mg/L		04/14/22 14:39	04/16/22 12:18	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		04/14/22 14:39	04/16/22 12:18	1
Boron	<0.060		0.080	0.060	mg/L		04/14/22 14:39	04/16/22 12:18	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/14/22 14:39	04/15/22 20:02	1
Calcium	<0.13		0.50	0.13	mg/L		04/14/22 14:39	04/16/22 12:18	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/14/22 14:39	04/15/22 20:02	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		04/14/22 14:39	04/15/22 20:02	1
Lead	<0.00017		0.0010	0.00017	mg/L		04/14/22 14:39	04/15/22 20:02	1
Lithium	<0.00083		0.0050	0.00083	mg/L		04/14/22 14:39	04/16/22 12:18	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/14/22 14:39	04/15/22 20:02	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/14/22 14:39	04/15/22 20:02	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/14/22 14:39	04/15/22 20:02	1
Iron	<0.028		0.050	0.028	mg/L		04/14/22 14:39	04/15/22 20:02	1
Potassium	<0.16		0.50	0.16	mg/L		04/14/22 14:39	04/15/22 20:02	1
Magnesium	<0.050		0.50	0.050	mg/L		04/14/22 14:39	04/15/22 20:02	1
Manganese	<0.0013		0.0050	0.0013	mg/L		04/14/22 14:39	04/15/22 20:02	1
Sodium	<0.18		0.50	0.18	mg/L		04/14/22 14:39	04/16/22 12:18	1
Silicon	<0.062		0.50	0.062	mg/L		04/14/22 14:39	04/15/22 20:02	1
Strontium	<0.0017		0.0050	0.0017	mg/L		04/14/22 14:39	04/16/22 12:18	1
SiO2, Silica	<0.15		1.1	0.15	mg/L		04/14/22 14:39	04/15/22 20:02	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/20/22 08:07	04/21/22 11:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.065		0.10	0.065	mg/L			04/15/22 13:40	1
Total Dissolved Solids	<10		10	10	mg/L			04/11/22 14:34	1
Total Organic Carbon - Duplicates	<0.51		1.0	0.51	mg/L			04/09/22 16:45	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			04/09/22 15:35	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/09/22 15:35	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/09/22 15:35	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Client Sample ID: APMW-4

Lab Sample ID: 180-136424-4

Date Collected: 04/06/22 09:02

Matrix: Water

Date Received: 04/08/22 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	15		0.50	0.27	mg/L			04/21/22 21:16	5
Chloride	2800		5.0	3.6	mg/L			04/19/22 21:55	5
Fluoride	0.36	J	1.0	0.13	mg/L			04/21/22 21:16	5
Sulfate	300		5.0	3.8	mg/L			04/19/22 21:55	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.016		0.030	0.016	mg/L		04/14/22 14:39	04/15/22 20:06	1
Antimony	<0.00051		0.0020	0.00051	mg/L		04/14/22 14:39	04/15/22 20:06	1
Arsenic	0.011		0.0010	0.00028	mg/L		04/14/22 14:39	04/15/22 20:06	1
Barium	0.17		0.050	0.016	mg/L		04/14/22 14:39	04/16/22 12:22	5
Beryllium	<0.0014		0.013	0.0014	mg/L		04/14/22 14:39	04/16/22 12:22	5
Boron	1.1		0.40	0.30	mg/L		04/14/22 14:39	04/16/22 12:22	5
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/14/22 14:39	04/15/22 20:06	1
Calcium	130		2.5	0.64	mg/L		04/14/22 14:39	04/16/22 12:22	5
Chromium	<0.0015		0.0020	0.0015	mg/L		04/14/22 14:39	04/15/22 20:06	1
Cobalt	0.0034		0.0025	0.00026	mg/L		04/14/22 14:39	04/15/22 20:06	1
Lead	<0.00017		0.0010	0.00017	mg/L		04/14/22 14:39	04/15/22 20:06	1
Lithium	0.046		0.025	0.0042	mg/L		04/14/22 14:39	04/16/22 12:22	5
Molybdenum	0.0050	J	0.015	0.00061	mg/L		04/14/22 14:39	04/15/22 20:06	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/14/22 14:39	04/15/22 20:06	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/14/22 14:39	04/15/22 20:06	1
Iron	4.0		0.050	0.028	mg/L		04/14/22 14:39	04/15/22 20:06	1
Potassium	48		0.50	0.16	mg/L		04/14/22 14:39	04/15/22 20:06	1
Magnesium	160		0.50	0.050	mg/L		04/14/22 14:39	04/15/22 20:06	1
Manganese	1.8		0.0050	0.0013	mg/L		04/14/22 14:39	04/15/22 20:06	1
Sodium	1500		2.5	0.92	mg/L		04/14/22 14:39	04/16/22 12:22	5
Silicon	15		0.50	0.062	mg/L		04/14/22 14:39	04/15/22 20:06	1
Strontium	2.1		0.025	0.0085	mg/L		04/14/22 14:39	04/16/22 12:22	5
SiO2, Silica	32		1.1	0.15	mg/L		04/14/22 14:39	04/15/22 20:06	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/20/22 08:07	04/21/22 11:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.065		0.10	0.065	mg/L			04/15/22 13:41	1
Total Dissolved Solids	5200		50	50	mg/L			04/11/22 14:34	1
Total Organic Carbon - Duplicates	3.0		1.0	0.51	mg/L			04/12/22 18:57	1
Total Alkalinity as CaCO3 to pH 4.5	160		5.0	5.0	mg/L			04/09/22 19:29	1
Bicarbonate Alkalinity as CaCO3	160		5.0	5.0	mg/L			04/09/22 19:29	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/09/22 19:29	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Client Sample ID: APMW-5

Lab Sample ID: 180-136424-5

Date Collected: 04/06/22 14:50

Matrix: Water

Date Received: 04/08/22 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	43		2.5	1.3	mg/L			04/21/22 21:28	25
Chloride	8400		25	18	mg/L			04/19/22 22:50	25
Fluoride	<0.65		5.0	0.65	mg/L			04/21/22 21:28	25
Sulfate	910		25	19	mg/L			04/19/22 22:50	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.016		0.030	0.016	mg/L		04/14/22 14:39	04/15/22 20:21	1
Antimony	<0.00051		0.0020	0.00051	mg/L		04/14/22 14:39	04/15/22 20:21	1
Arsenic	0.21		0.0010	0.00028	mg/L		04/14/22 14:39	04/15/22 20:21	1
Barium	0.11		0.050	0.016	mg/L		04/14/22 14:39	04/16/22 12:26	5
Beryllium	<0.0014		0.013	0.0014	mg/L		04/14/22 14:39	04/16/22 12:26	5
Boron	5.8		0.40	0.30	mg/L		04/14/22 14:39	04/16/22 12:26	5
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/14/22 14:39	04/15/22 20:21	1
Calcium	320		2.5	0.64	mg/L		04/14/22 14:39	04/16/22 12:26	5
Chromium	<0.0015		0.0020	0.0015	mg/L		04/14/22 14:39	04/15/22 20:21	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		04/14/22 14:39	04/15/22 20:21	1
Lead	<0.00017		0.0010	0.00017	mg/L		04/14/22 14:39	04/15/22 20:21	1
Lithium	0.046		0.025	0.0042	mg/L		04/14/22 14:39	04/16/22 12:26	5
Molybdenum	0.074		0.015	0.00061	mg/L		04/14/22 14:39	04/15/22 20:21	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/14/22 14:39	04/15/22 20:21	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/14/22 14:39	04/15/22 20:21	1
Iron	24		0.050	0.028	mg/L		04/14/22 14:39	04/15/22 20:21	1
Potassium	140		0.50	0.16	mg/L		04/14/22 14:39	04/15/22 20:21	1
Magnesium	470		0.50	0.050	mg/L		04/14/22 14:39	04/15/22 20:21	1
Manganese	0.56		0.0050	0.0013	mg/L		04/14/22 14:39	04/15/22 20:21	1
Sodium	4500		2.5	0.92	mg/L		04/14/22 14:39	04/16/22 12:26	5
Silicon	12		0.50	0.062	mg/L		04/14/22 14:39	04/15/22 20:21	1
Strontium	5.0		0.025	0.0085	mg/L		04/14/22 14:39	04/16/22 12:26	5
SiO2, Silica	25		1.1	0.15	mg/L		04/14/22 14:39	04/15/22 20:21	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/20/22 08:07	04/21/22 11:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.065		0.10	0.065	mg/L			04/15/22 13:43	1
Total Dissolved Solids	15000		100	100	mg/L			04/11/22 19:01	1
Total Organic Carbon - Duplicates	2.0		1.0	0.51	mg/L			04/12/22 20:21	1
Total Alkalinity as CaCO3 to pH 4.5	170		5.0	5.0	mg/L			04/14/22 18:17	1
Bicarbonate Alkalinity as CaCO3	170		5.0	5.0	mg/L			04/14/22 18:17	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/14/22 18:17	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Client Sample ID: APMW-6R

Lab Sample ID: 180-136424-6

Date Collected: 04/07/22 10:47

Matrix: Water

Date Received: 04/08/22 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.59	J	1.0	0.53	mg/L			04/21/22 22:02	10
Chloride	3900		10	7.1	mg/L			04/19/22 23:17	10
Fluoride	6.4		2.0	0.26	mg/L			04/21/22 22:02	10
Sulfate	820		10	7.6	mg/L			04/19/22 23:17	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.016		0.030	0.016	mg/L		04/14/22 14:39	04/15/22 20:35	1
Antimony	<0.00051		0.0020	0.00051	mg/L		04/14/22 14:39	04/15/22 20:35	1
Arsenic	0.21		0.0010	0.00028	mg/L		04/14/22 14:39	04/15/22 20:35	1
Barium	0.043	J	0.050	0.016	mg/L		04/14/22 14:39	04/16/22 12:29	5
Beryllium	<0.0014		0.013	0.0014	mg/L		04/14/22 14:39	04/16/22 12:29	5
Boron	10		0.40	0.30	mg/L		04/14/22 14:39	04/16/22 12:29	5
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/14/22 14:39	04/15/22 20:35	1
Calcium	390		2.5	0.64	mg/L		04/14/22 14:39	04/16/22 12:29	5
Chromium	<0.0015		0.0020	0.0015	mg/L		04/14/22 14:39	04/15/22 20:35	1
Cobalt	0.0028		0.0025	0.00026	mg/L		04/14/22 14:39	04/15/22 20:35	1
Lead	<0.00017		0.0010	0.00017	mg/L		04/14/22 14:39	04/15/22 20:35	1
Lithium	0.057		0.025	0.0042	mg/L		04/14/22 14:39	04/16/22 12:29	5
Molybdenum	0.50		0.015	0.00061	mg/L		04/14/22 14:39	04/15/22 20:35	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/14/22 14:39	04/15/22 20:35	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/14/22 14:39	04/15/22 20:35	1
Iron	240		0.050	0.028	mg/L		04/14/22 14:39	04/15/22 20:35	1
Potassium	17		0.50	0.16	mg/L		04/14/22 14:39	04/15/22 20:35	1
Magnesium	140		0.50	0.050	mg/L		04/14/22 14:39	04/15/22 20:35	1
Manganese	5.0		0.0050	0.0013	mg/L		04/14/22 14:39	04/15/22 20:35	1
Sodium	2000		2.5	0.92	mg/L		04/14/22 14:39	04/16/22 12:29	5
Silicon	16		0.50	0.062	mg/L		04/14/22 14:39	04/15/22 20:35	1
Strontium	3.6		0.025	0.0085	mg/L		04/14/22 14:39	04/16/22 12:29	5
SiO2, Silica	34		1.1	0.15	mg/L		04/14/22 14:39	04/15/22 20:35	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/20/22 08:07	04/21/22 11:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.13	F1	0.10	0.065	mg/L			04/15/22 13:45	1
Total Dissolved Solids	7600		50	50	mg/L			04/11/22 14:34	1
Total Organic Carbon - Duplicates	1.1		1.0	0.51	mg/L			04/09/22 19:54	1
Total Alkalinity as CaCO3 to pH 4.5	24		5.0	5.0	mg/L			04/09/22 20:30	1
Bicarbonate Alkalinity as CaCO3	24		5.0	5.0	mg/L			04/09/22 20:30	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/09/22 20:30	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Client Sample ID: APMW-7

Lab Sample ID: 180-136424-7

Date Collected: 04/06/22 15:15

Matrix: Water

Date Received: 04/08/22 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.53		1.0	0.53	mg/L			04/21/22 22:13	10
Chloride	4200		10	7.1	mg/L			04/19/22 23:44	10
Fluoride	1.2	J	2.0	0.26	mg/L			04/21/22 22:13	10
Sulfate	98		10	7.6	mg/L			04/19/22 23:44	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.016		0.030	0.016	mg/L		04/14/22 14:39	04/15/22 20:50	1
Antimony	<0.00051		0.0020	0.00051	mg/L		04/14/22 14:39	04/15/22 20:50	1
Arsenic	0.00048	J	0.0010	0.00028	mg/L		04/14/22 14:39	04/15/22 20:50	1
Barium	0.61		0.050	0.016	mg/L		04/14/22 14:39	04/16/22 12:33	5
Beryllium	<0.0014		0.013	0.0014	mg/L		04/14/22 14:39	04/16/22 12:33	5
Boron	1.4		0.40	0.30	mg/L		04/14/22 14:39	04/16/22 12:33	5
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/14/22 14:39	04/15/22 20:50	1
Calcium	110		2.5	0.64	mg/L		04/14/22 14:39	04/16/22 12:33	5
Chromium	<0.0015		0.0020	0.0015	mg/L		04/14/22 14:39	04/15/22 20:50	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		04/14/22 14:39	04/15/22 20:50	1
Lead	<0.00017		0.0010	0.00017	mg/L		04/14/22 14:39	04/15/22 20:50	1
Lithium	0.0043	J	0.025	0.0042	mg/L		04/14/22 14:39	04/16/22 12:33	5
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/14/22 14:39	04/15/22 20:50	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/14/22 14:39	04/15/22 20:50	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/14/22 14:39	04/15/22 20:50	1
Iron	2.4		0.050	0.028	mg/L		04/14/22 14:39	04/15/22 20:50	1
Potassium	50		0.50	0.16	mg/L		04/14/22 14:39	04/15/22 20:50	1
Magnesium	290		0.50	0.050	mg/L		04/14/22 14:39	04/15/22 20:50	1
Manganese	0.079		0.0050	0.0013	mg/L		04/14/22 14:39	04/15/22 20:50	1
Sodium	2300		2.5	0.92	mg/L		04/14/22 14:39	04/16/22 12:33	5
Silicon	14		0.50	0.062	mg/L		04/14/22 14:39	04/15/22 20:50	1
Strontium	1.9		0.025	0.0085	mg/L		04/14/22 14:39	04/16/22 12:33	5
SiO2, Silica	29		1.1	0.15	mg/L		04/14/22 14:39	04/15/22 20:50	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/20/22 08:07	04/21/22 11:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.065		0.10	0.065	mg/L			04/15/22 13:49	1
Total Dissolved Solids	7700		50	50	mg/L			04/11/22 14:34	1
Total Organic Carbon - Duplicates	4.3		1.0	0.51	mg/L			04/12/22 20:34	1
Total Alkalinity as CaCO3 to pH 4.5	540		5.0	5.0	mg/L			04/14/22 18:25	1
Bicarbonate Alkalinity as CaCO3	540		5.0	5.0	mg/L			04/14/22 18:25	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/14/22 18:25	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Client Sample ID: APMW-8

Lab Sample ID: 180-136424-8

Date Collected: 04/06/22 10:36

Matrix: Water

Date Received: 04/08/22 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	1.3		1.0	0.53	mg/L			04/21/22 22:25	10
Chloride	3400		10	7.1	mg/L			04/20/22 00:11	10
Fluoride	16		2.0	0.26	mg/L			04/21/22 22:25	10
Sulfate	610		10	7.6	mg/L			04/20/22 00:11	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.016		0.030	0.016	mg/L		04/14/22 14:39	04/15/22 21:12	1
Antimony	0.00066	J B	0.0020	0.00051	mg/L		04/14/22 14:39	04/15/22 21:12	1
Arsenic	0.023		0.0010	0.00028	mg/L		04/14/22 14:39	04/15/22 21:12	1
Barium	0.24		0.010	0.0031	mg/L		04/14/22 14:39	04/15/22 21:12	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		04/14/22 14:39	04/15/22 21:12	1
Boron	19		0.40	0.30	mg/L		04/14/22 14:39	04/16/22 12:47	5
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/14/22 14:39	04/15/22 21:12	1
Calcium	460		0.50	0.13	mg/L		04/14/22 14:39	04/15/22 21:12	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/14/22 14:39	04/15/22 21:12	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		04/14/22 14:39	04/15/22 21:12	1
Lead	<0.00017		0.0010	0.00017	mg/L		04/14/22 14:39	04/15/22 21:12	1
Lithium	0.075		0.0050	0.00083	mg/L		04/14/22 14:39	04/15/22 21:12	1
Molybdenum	0.053		0.015	0.00061	mg/L		04/14/22 14:39	04/15/22 21:12	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/14/22 14:39	04/15/22 21:12	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/14/22 14:39	04/15/22 21:12	1
Iron	1.7		0.050	0.028	mg/L		04/14/22 14:39	04/15/22 21:12	1
Potassium	81		0.50	0.16	mg/L		04/14/22 14:39	04/15/22 21:12	1
Magnesium	82		0.50	0.050	mg/L		04/14/22 14:39	04/15/22 21:12	1
Manganese	0.087		0.0050	0.0013	mg/L		04/14/22 14:39	04/15/22 21:12	1
Sodium	1800		2.5	0.92	mg/L		04/14/22 14:39	04/16/22 12:47	5
Silicon	7.3		0.50	0.062	mg/L		04/14/22 14:39	04/15/22 21:12	1
Strontium	5.2		0.0050	0.0017	mg/L		04/14/22 14:39	04/15/22 21:12	1
SiO2, Silica	16		1.1	0.15	mg/L		04/14/22 14:39	04/15/22 21:12	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/20/22 08:07	04/21/22 11:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.065		0.10	0.065	mg/L			04/15/22 13:56	1
Total Dissolved Solids	8900		50	50	mg/L			04/11/22 14:34	1
Total Organic Carbon - Duplicates	2.3		1.0	0.51	mg/L			04/09/22 17:51	1
Total Alkalinity as CaCO3 to pH 4.5	340		5.0	5.0	mg/L			04/14/22 16:55	1
Bicarbonate Alkalinity as CaCO3	340		5.0	5.0	mg/L			04/14/22 16:55	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/14/22 16:55	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Client Sample ID: APMW-9

Lab Sample ID: 180-136424-9

Date Collected: 04/06/22 08:31

Matrix: Water

Date Received: 04/08/22 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.27		0.50	0.27	mg/L			04/21/22 22:36	5
Chloride	2900		5.0	3.6	mg/L			04/20/22 00:38	5
Fluoride	0.82	J	1.0	0.13	mg/L			04/21/22 22:36	5
Sulfate	290		5.0	3.8	mg/L			04/20/22 00:38	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.016		0.030	0.016	mg/L		04/14/22 14:39	04/15/22 21:26	1
Antimony	<0.00051		0.0020	0.00051	mg/L		04/14/22 14:39	04/15/22 21:26	1
Arsenic	0.0013		0.0010	0.00028	mg/L		04/14/22 14:39	04/15/22 21:26	1
Barium	0.52		0.010	0.0031	mg/L		04/14/22 14:39	04/15/22 21:26	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		04/14/22 14:39	04/15/22 21:26	1
Boron	5.9		0.080	0.060	mg/L		04/14/22 14:39	04/15/22 21:26	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/14/22 14:39	04/15/22 21:26	1
Calcium	300		0.50	0.13	mg/L		04/14/22 14:39	04/15/22 21:26	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/14/22 14:39	04/15/22 21:26	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		04/14/22 14:39	04/15/22 21:26	1
Lead	<0.00017		0.0010	0.00017	mg/L		04/14/22 14:39	04/15/22 21:26	1
Lithium	0.0084		0.0050	0.00083	mg/L		04/14/22 14:39	04/15/22 21:26	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/14/22 14:39	04/15/22 21:26	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/14/22 14:39	04/15/22 21:26	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/14/22 14:39	04/15/22 21:26	1
Iron	39		0.050	0.028	mg/L		04/14/22 14:39	04/15/22 21:26	1
Potassium	62		0.50	0.16	mg/L		04/14/22 14:39	04/15/22 21:26	1
Magnesium	92		0.50	0.050	mg/L		04/14/22 14:39	04/15/22 21:26	1
Manganese	0.39		0.0050	0.0013	mg/L		04/14/22 14:39	04/15/22 21:26	1
Sodium	1500		2.5	0.92	mg/L		04/14/22 14:39	04/16/22 13:02	5
Silicon	4.1		0.50	0.062	mg/L		04/14/22 14:39	04/15/22 21:26	1
Strontium	2.4		0.0050	0.0017	mg/L		04/14/22 14:39	04/15/22 21:26	1
SiO2, Silica	8.7		1.1	0.15	mg/L		04/14/22 14:39	04/15/22 21:26	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/20/22 08:07	04/21/22 11:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.065		0.10	0.065	mg/L			04/15/22 13:57	1
Total Dissolved Solids	5600		50	50	mg/L			04/11/22 14:34	1
Total Organic Carbon - Duplicates	1.1		1.0	0.51	mg/L			04/09/22 18:03	1
Total Alkalinity as CaCO3 to pH 4.5	160		5.0	5.0	mg/L			04/14/22 16:47	1
Bicarbonate Alkalinity as CaCO3	160		5.0	5.0	mg/L			04/14/22 16:47	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/14/22 16:47	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Client Sample ID: DUP-03

Lab Sample ID: 180-136424-10

Date Collected: 04/06/22 14:15

Matrix: Water

Date Received: 04/08/22 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.53		1.0	0.53	mg/L			04/21/22 22:47	10
Chloride	4200		10	7.1	mg/L			04/20/22 01:32	10
Fluoride	2.2		2.0	0.26	mg/L			04/21/22 22:47	10
Sulfate	90		10	7.6	mg/L			04/20/22 01:32	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.016		0.030	0.016	mg/L		04/14/22 14:39	04/15/22 21:41	1
Antimony	<0.00051		0.0020	0.00051	mg/L		04/14/22 14:39	04/15/22 21:41	1
Arsenic	0.00051	J	0.0010	0.00028	mg/L		04/14/22 14:39	04/15/22 21:41	1
Barium	0.59		0.010	0.0031	mg/L		04/14/22 14:39	04/15/22 21:41	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		04/14/22 14:39	04/15/22 21:41	1
Boron	0.98		0.080	0.060	mg/L		04/14/22 14:39	04/15/22 21:41	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/14/22 14:39	04/15/22 21:41	1
Calcium	100		0.50	0.13	mg/L		04/14/22 14:39	04/15/22 21:41	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/14/22 14:39	04/15/22 21:41	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		04/14/22 14:39	04/15/22 21:41	1
Lead	<0.00017		0.0010	0.00017	mg/L		04/14/22 14:39	04/15/22 21:41	1
Lithium	0.0056		0.0050	0.00083	mg/L		04/14/22 14:39	04/15/22 21:41	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/14/22 14:39	04/15/22 21:41	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/14/22 14:39	04/15/22 21:41	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/14/22 14:39	04/15/22 21:41	1
Iron	2.2		0.050	0.028	mg/L		04/14/22 14:39	04/15/22 21:41	1
Potassium	47		0.50	0.16	mg/L		04/14/22 14:39	04/15/22 21:41	1
Magnesium	260		0.50	0.050	mg/L		04/14/22 14:39	04/15/22 21:41	1
Manganese	0.077		0.0050	0.0013	mg/L		04/14/22 14:39	04/15/22 21:41	1
Sodium	2200		2.5	0.92	mg/L		04/14/22 14:39	04/16/22 13:06	5
Silicon	13		0.50	0.062	mg/L		04/14/22 14:39	04/15/22 21:41	1
Strontium	1.8		0.0050	0.0017	mg/L		04/14/22 14:39	04/15/22 21:41	1
SiO2, Silica	28		1.1	0.15	mg/L		04/14/22 14:39	04/15/22 21:41	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/20/22 08:07	04/21/22 11:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.065		0.10	0.065	mg/L			04/15/22 13:59	1
Total Dissolved Solids	7500		50	50	mg/L			04/11/22 14:34	1
Total Organic Carbon - Duplicates	4.3		1.0	0.51	mg/L			04/12/22 17:52	1
Total Alkalinity as CaCO3 to pH 4.5	570		5.0	5.0	mg/L			04/09/22 21:24	1
Bicarbonate Alkalinity as CaCO3	570		5.0	5.0	mg/L			04/09/22 21:24	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/09/22 21:24	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Client Sample ID: DUP-04

Lab Sample ID: 180-136424-11

Date Collected: 04/07/22 07:10

Matrix: Water

Date Received: 04/08/22 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.16		0.10	0.053	mg/L			04/19/22 20:29	1
Chloride	19		1.0	0.71	mg/L			04/19/22 20:29	1
Fluoride	0.21		0.20	0.026	mg/L			04/19/22 20:29	1
Sulfate	11		1.0	0.76	mg/L			04/19/22 20:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.016		0.030	0.016	mg/L		04/14/22 14:39	04/15/22 21:55	1
Antimony	<0.00051		0.0020	0.00051	mg/L		04/14/22 14:39	04/15/22 21:55	1
Arsenic	0.0051		0.0010	0.00028	mg/L		04/14/22 14:39	04/15/22 21:55	1
Barium	0.13		0.010	0.0031	mg/L		04/14/22 14:39	04/15/22 21:55	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		04/14/22 14:39	04/15/22 21:55	1
Boron	0.14		0.080	0.060	mg/L		04/14/22 14:39	04/15/22 21:55	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/14/22 14:39	04/15/22 21:55	1
Calcium	10		0.50	0.13	mg/L		04/14/22 14:39	04/15/22 21:55	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/14/22 14:39	04/15/22 21:55	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		04/14/22 14:39	04/15/22 21:55	1
Lead	<0.00017		0.0010	0.00017	mg/L		04/14/22 14:39	04/15/22 21:55	1
Lithium	0.012		0.0050	0.00083	mg/L		04/14/22 14:39	04/15/22 21:55	1
Molybdenum	0.00097	J	0.015	0.00061	mg/L		04/14/22 14:39	04/15/22 21:55	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/14/22 14:39	04/15/22 21:55	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/14/22 14:39	04/15/22 21:55	1
Iron	1.5		0.050	0.028	mg/L		04/14/22 14:39	04/15/22 21:55	1
Potassium	3.5		0.50	0.16	mg/L		04/14/22 14:39	04/15/22 21:55	1
Magnesium	1.8		0.50	0.050	mg/L		04/14/22 14:39	04/15/22 21:55	1
Manganese	0.14		0.0050	0.0013	mg/L		04/14/22 14:39	04/15/22 21:55	1
Sodium	39		0.50	0.18	mg/L		04/14/22 14:39	04/15/22 21:55	1
Silicon	20		0.50	0.062	mg/L		04/14/22 14:39	04/15/22 21:55	1
Strontium	0.31		0.0050	0.0017	mg/L		04/14/22 14:39	04/15/22 21:55	1
SiO2, Silica	42		1.1	0.15	mg/L		04/14/22 14:39	04/15/22 21:55	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/20/22 08:07	04/21/22 11:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.065		0.10	0.065	mg/L			04/15/22 14:00	1
Total Dissolved Solids	160		10	10	mg/L			04/11/22 14:34	1
Total Organic Carbon - Duplicates	<0.51		1.0	0.51	mg/L			04/09/22 20:06	1
Total Alkalinity as CaCO3 to pH 4.5	78		5.0	5.0	mg/L			04/13/22 21:59	1
Bicarbonate Alkalinity as CaCO3	78		5.0	5.0	mg/L			04/13/22 21:59	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/13/22 21:59	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Client Sample ID: APMW-13

Lab Sample ID: 180-136424-12

Date Collected: 04/07/22 13:14

Matrix: Water

Date Received: 04/08/22 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	4.3		0.50	0.27	mg/L			04/19/22 16:28	5
Chloride	1400		5.0	3.6	mg/L			04/19/22 16:28	5
Fluoride	0.39	J	1.0	0.13	mg/L			04/19/22 16:28	5
Sulfate	810		5.0	3.8	mg/L			04/19/22 16:28	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.026	J	0.030	0.016	mg/L		04/14/22 14:39	04/15/22 21:59	1
Antimony	<0.00051		0.0020	0.00051	mg/L		04/14/22 14:39	04/15/22 21:59	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		04/14/22 14:39	04/15/22 21:59	1
Barium	0.24		0.010	0.0031	mg/L		04/14/22 14:39	04/15/22 21:59	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		04/14/22 14:39	04/15/22 21:59	1
Boron	0.61		0.080	0.060	mg/L		04/14/22 14:39	04/15/22 21:59	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/14/22 14:39	04/15/22 21:59	1
Calcium	96		0.50	0.13	mg/L		04/14/22 14:39	04/15/22 21:59	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/14/22 14:39	04/15/22 21:59	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		04/14/22 14:39	04/15/22 21:59	1
Lead	<0.00017		0.0010	0.00017	mg/L		04/14/22 14:39	04/15/22 21:59	1
Lithium	0.0045	J	0.0050	0.00083	mg/L		04/14/22 14:39	04/15/22 21:59	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/14/22 14:39	04/15/22 21:59	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/14/22 14:39	04/15/22 21:59	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/14/22 14:39	04/15/22 21:59	1
Iron	33		0.050	0.028	mg/L		04/14/22 14:39	04/15/22 21:59	1
Potassium	43		0.50	0.16	mg/L		04/14/22 14:39	04/15/22 21:59	1
Magnesium	190		0.50	0.050	mg/L		04/14/22 14:39	04/15/22 21:59	1
Manganese	1.1		0.0050	0.0013	mg/L		04/14/22 14:39	04/15/22 21:59	1
Sodium	860		0.50	0.18	mg/L		04/14/22 14:39	04/15/22 21:59	1
Silicon	12		0.50	0.062	mg/L		04/14/22 14:39	04/15/22 21:59	1
Strontium	1.3		0.0050	0.0017	mg/L		04/14/22 14:39	04/15/22 21:59	1
SiO2, Silica	25		1.1	0.15	mg/L		04/14/22 14:39	04/15/22 21:59	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/20/22 08:07	04/21/22 11:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.065		0.10	0.065	mg/L			04/15/22 14:02	1
Total Dissolved Solids	3400		40	40	mg/L			04/11/22 14:34	1
Total Organic Carbon - Duplicates	2.9		1.0	0.51	mg/L			04/09/22 21:48	1
Total Alkalinity as CaCO3 to pH 4.5	180		5.0	5.0	mg/L			04/09/22 17:33	1
Bicarbonate Alkalinity as CaCO3	180		5.0	5.0	mg/L			04/09/22 17:33	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/09/22 17:33	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Client Sample ID: APMW-14

Lab Sample ID: 180-136424-13

Date Collected: 04/07/22 12:25

Matrix: Water

Date Received: 04/08/22 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	8.9		1.0	0.53	mg/L			04/19/22 19:26	10
Chloride	2900		10	7.1	mg/L			04/19/22 19:26	10
Fluoride	<0.26		2.0	0.26	mg/L			04/19/22 19:26	10
Sulfate	810		10	7.6	mg/L			04/19/22 19:26	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.016		0.030	0.016	mg/L		04/14/22 14:39	04/15/22 22:02	1
Antimony	<0.00051		0.0020	0.00051	mg/L		04/14/22 14:39	04/15/22 22:02	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		04/14/22 14:39	04/15/22 22:02	1
Barium	0.23		0.010	0.0031	mg/L		04/14/22 14:39	04/15/22 22:02	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		04/14/22 14:39	04/15/22 22:02	1
Boron	0.71		0.080	0.060	mg/L		04/14/22 14:39	04/15/22 22:02	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/14/22 14:39	04/15/22 22:02	1
Calcium	110		0.50	0.13	mg/L		04/14/22 14:39	04/15/22 22:02	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/14/22 14:39	04/15/22 22:02	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		04/14/22 14:39	04/15/22 22:02	1
Lead	<0.00017		0.0010	0.00017	mg/L		04/14/22 14:39	04/15/22 22:02	1
Lithium	0.0044	J	0.0050	0.00083	mg/L		04/14/22 14:39	04/15/22 22:02	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/14/22 14:39	04/15/22 22:02	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/14/22 14:39	04/15/22 22:02	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/14/22 14:39	04/15/22 22:02	1
Iron	34		0.050	0.028	mg/L		04/14/22 14:39	04/15/22 22:02	1
Potassium	55		0.50	0.16	mg/L		04/14/22 14:39	04/15/22 22:02	1
Magnesium	260		0.50	0.050	mg/L		04/14/22 14:39	04/15/22 22:02	1
Manganese	0.78		0.0050	0.0013	mg/L		04/14/22 14:39	04/15/22 22:02	1
Sodium	1600		2.5	0.92	mg/L		04/14/22 14:39	04/16/22 13:09	5
Silicon	4.8		0.50	0.062	mg/L		04/14/22 14:39	04/15/22 22:02	1
Strontium	1.7		0.0050	0.0017	mg/L		04/14/22 14:39	04/15/22 22:02	1
SiO2, Silica	10		1.1	0.15	mg/L		04/14/22 14:39	04/15/22 22:02	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/20/22 08:07	04/21/22 11:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.065		0.10	0.065	mg/L			04/15/22 14:04	1
Total Dissolved Solids	6000		50	50	mg/L			04/11/22 14:34	1
Total Organic Carbon - Duplicates	1.4		1.0	0.51	mg/L			04/09/22 22:01	1
Total Alkalinity as CaCO3 to pH 4.5	120		5.0	5.0	mg/L			04/09/22 20:22	1
Bicarbonate Alkalinity as CaCO3	120		5.0	5.0	mg/L			04/09/22 20:22	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/09/22 20:22	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Client Sample ID: APMW-15

Lab Sample ID: 180-136424-14

Date Collected: 04/07/22 10:43

Matrix: Water

Date Received: 04/08/22 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	16		0.50	0.27	mg/L			04/19/22 18:53	5
Chloride	3000		5.0	3.6	mg/L			04/19/22 18:53	5
Fluoride	0.25	J	1.0	0.13	mg/L			04/19/22 18:53	5
Sulfate	160		5.0	3.8	mg/L			04/19/22 18:53	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.042		0.030	0.016	mg/L		04/14/22 14:39	04/15/22 22:17	1
Antimony	<0.00051		0.0020	0.00051	mg/L		04/14/22 14:39	04/15/22 22:17	1
Arsenic	0.00063	J	0.0010	0.00028	mg/L		04/14/22 14:39	04/15/22 22:17	1
Barium	0.048		0.010	0.0031	mg/L		04/14/22 14:39	04/15/22 22:17	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		04/14/22 14:39	04/15/22 22:17	1
Boron	0.61		0.080	0.060	mg/L		04/14/22 14:39	04/15/22 22:17	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/14/22 14:39	04/15/22 22:17	1
Calcium	64		0.50	0.13	mg/L		04/14/22 14:39	04/15/22 22:17	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/14/22 14:39	04/15/22 22:17	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		04/14/22 14:39	04/15/22 22:17	1
Lead	<0.00017		0.0010	0.00017	mg/L		04/14/22 14:39	04/15/22 22:17	1
Lithium	0.0084		0.0050	0.00083	mg/L		04/14/22 14:39	04/15/22 22:17	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/14/22 14:39	04/15/22 22:17	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/14/22 14:39	04/15/22 22:17	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/14/22 14:39	04/15/22 22:17	1
Iron	0.076		0.050	0.028	mg/L		04/14/22 14:39	04/15/22 22:17	1
Potassium	48		0.50	0.16	mg/L		04/14/22 14:39	04/15/22 22:17	1
Magnesium	190		0.50	0.050	mg/L		04/14/22 14:39	04/15/22 22:17	1
Manganese	0.18		0.0050	0.0013	mg/L		04/14/22 14:39	04/15/22 22:17	1
Sodium	1500		2.5	0.92	mg/L		04/14/22 14:39	04/16/22 13:13	5
Silicon	17		0.50	0.062	mg/L		04/14/22 14:39	04/15/22 22:17	1
Strontium	1.2		0.0050	0.0017	mg/L		04/14/22 14:39	04/15/22 22:17	1
SiO2, Silica	37		1.1	0.15	mg/L		04/14/22 14:39	04/15/22 22:17	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/20/22 08:07	04/21/22 11:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.065		0.10	0.065	mg/L			04/15/22 14:05	1
Total Dissolved Solids	5100		50	50	mg/L			04/11/22 14:34	1
Total Organic Carbon - Duplicates	4.0		1.0	0.51	mg/L			04/12/22 20:47	1
Total Alkalinity as CaCO3 to pH 4.5	250		5.0	5.0	mg/L			04/20/22 12:00	1
Bicarbonate Alkalinity as CaCO3	250		5.0	5.0	mg/L			04/20/22 12:00	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/20/22 12:00	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Client Sample ID: APMW-16

Lab Sample ID: 180-136424-15

Date Collected: 04/07/22 09:43

Matrix: Water

Date Received: 04/08/22 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	17		0.50	0.27	mg/L			04/19/22 18:20	5
Chloride	3100		5.0	3.6	mg/L			04/19/22 18:20	5
Fluoride	0.54	J	1.0	0.13	mg/L			04/19/22 18:20	5
Sulfate	140		5.0	3.8	mg/L			04/19/22 18:20	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.034		0.030	0.016	mg/L		04/14/22 14:39	04/15/22 22:28	1
Antimony	<0.00051		0.0020	0.00051	mg/L		04/14/22 14:39	04/15/22 22:28	1
Arsenic	0.00078	J	0.0010	0.00028	mg/L		04/14/22 14:39	04/15/22 22:28	1
Barium	0.067		0.010	0.0031	mg/L		04/14/22 14:39	04/15/22 22:28	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		04/14/22 14:39	04/15/22 22:28	1
Boron	0.58		0.080	0.060	mg/L		04/14/22 14:39	04/15/22 22:28	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/14/22 14:39	04/15/22 22:28	1
Calcium	67		0.50	0.13	mg/L		04/14/22 14:39	04/15/22 22:28	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/14/22 14:39	04/15/22 22:28	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		04/14/22 14:39	04/15/22 22:28	1
Lead	<0.00017		0.0010	0.00017	mg/L		04/14/22 14:39	04/15/22 22:28	1
Lithium	0.0097		0.0050	0.00083	mg/L		04/14/22 14:39	04/15/22 22:28	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/14/22 14:39	04/15/22 22:28	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/14/22 14:39	04/15/22 22:28	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/14/22 14:39	04/15/22 22:28	1
Iron	<0.028		0.050	0.028	mg/L		04/14/22 14:39	04/15/22 22:28	1
Potassium	47		0.50	0.16	mg/L		04/14/22 14:39	04/15/22 22:28	1
Magnesium	190		0.50	0.050	mg/L		04/14/22 14:39	04/15/22 22:28	1
Manganese	0.17		0.0050	0.0013	mg/L		04/14/22 14:39	04/15/22 22:28	1
Sodium	1500		2.5	0.92	mg/L		04/14/22 14:39	04/16/22 13:17	5
Silicon	17		0.50	0.062	mg/L		04/14/22 14:39	04/15/22 22:28	1
Strontium	1.2		0.0050	0.0017	mg/L		04/14/22 14:39	04/15/22 22:28	1
SiO2, Silica	37		1.1	0.15	mg/L		04/14/22 14:39	04/15/22 22:28	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/20/22 08:07	04/21/22 11:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.065		0.10	0.065	mg/L			04/15/22 14:07	1
Total Dissolved Solids	5100		50	50	mg/L			04/11/22 14:34	1
Total Organic Carbon - Duplicates	3.7		1.0	0.51	mg/L			04/12/22 21:12	1
Total Alkalinity as CaCO3 to pH 4.5	320		5.0	5.0	mg/L			04/20/22 11:12	1
Bicarbonate Alkalinity as CaCO3	320		5.0	5.0	mg/L			04/20/22 11:12	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/20/22 11:12	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Client Sample ID: APMW-5D

Lab Sample ID: 180-136424-16

Date Collected: 04/06/22 13:25

Matrix: Water

Date Received: 04/08/22 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.16		0.10	0.053	mg/L			04/19/22 18:05	1
Chloride	8.2		1.0	0.71	mg/L			04/19/22 18:05	1
Fluoride	0.27		0.20	0.026	mg/L			04/19/22 18:05	1
Sulfate	10		1.0	0.76	mg/L			04/19/22 18:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.41		0.030	0.016	mg/L		04/14/22 14:39	04/15/22 22:42	1
Antimony	<0.00051		0.0020	0.00051	mg/L		04/14/22 14:39	04/15/22 22:42	1
Arsenic	0.016		0.0010	0.00028	mg/L		04/14/22 14:39	04/15/22 22:42	1
Barium	0.053		0.010	0.0031	mg/L		04/14/22 14:39	04/15/22 22:42	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		04/14/22 14:39	04/15/22 22:42	1
Boron	0.086		0.080	0.060	mg/L		04/14/22 14:39	04/15/22 22:42	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/14/22 14:39	04/15/22 22:42	1
Calcium	1.2		0.50	0.13	mg/L		04/14/22 14:39	04/15/22 22:42	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/14/22 14:39	04/15/22 22:42	1
Cobalt	0.00033	J	0.0025	0.00026	mg/L		04/14/22 14:39	04/15/22 22:42	1
Lead	0.00026	J	0.0010	0.00017	mg/L		04/14/22 14:39	04/15/22 22:42	1
Lithium	0.0088		0.0050	0.00083	mg/L		04/14/22 14:39	04/15/22 22:42	1
Molybdenum	0.00078	J	0.015	0.00061	mg/L		04/14/22 14:39	04/15/22 22:42	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/14/22 14:39	04/15/22 22:42	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/14/22 14:39	04/15/22 22:42	1
Iron	1.3		0.050	0.028	mg/L		04/14/22 14:39	04/15/22 22:42	1
Potassium	3.5		0.50	0.16	mg/L		04/14/22 14:39	04/15/22 22:42	1
Magnesium	0.83		0.50	0.050	mg/L		04/14/22 14:39	04/15/22 22:42	1
Manganese	0.036		0.0050	0.0013	mg/L		04/14/22 14:39	04/15/22 22:42	1
Sodium	39		0.50	0.18	mg/L		04/14/22 14:39	04/15/22 22:42	1
Silicon	21		2.5	0.31	mg/L		04/14/22 14:39	04/16/22 13:20	5
Strontium	0.025		0.0050	0.0017	mg/L		04/14/22 14:39	04/15/22 22:42	1
SiO2, Silica	44		5.4	0.76	mg/L		04/14/22 14:39	04/16/22 13:20	5

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/20/22 08:07	04/21/22 11:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.065		0.10	0.065	mg/L			04/15/22 14:16	1
Total Dissolved Solids	130		10	10	mg/L			04/11/22 14:34	1
Total Organic Carbon - Duplicates	<0.51		1.0	0.51	mg/L			04/09/22 18:29	1
Total Alkalinity as CaCO3 to pH 4.5	84		5.0	5.0	mg/L			04/20/22 11:58	1
Bicarbonate Alkalinity as CaCO3	84		5.0	5.0	mg/L			04/20/22 11:58	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/20/22 11:58	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Client Sample ID: APMW-6D

Lab Sample ID: 180-136424-17

Date Collected: 04/07/22 08:10

Matrix: Water

Date Received: 04/08/22 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.15		0.10	0.053	mg/L			04/19/22 17:49	1
Chloride	19		1.0	0.71	mg/L			04/19/22 17:49	1
Fluoride	0.20		0.20	0.026	mg/L			04/19/22 17:49	1
Sulfate	11		1.0	0.76	mg/L			04/19/22 17:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.029	J	0.030	0.016	mg/L		04/14/22 14:39	04/15/22 22:53	1
Antimony	0.00075	J B	0.0020	0.00051	mg/L		04/14/22 14:39	04/15/22 22:53	1
Arsenic	0.0052		0.0010	0.00028	mg/L		04/14/22 14:39	04/15/22 22:53	1
Barium	0.13		0.010	0.0031	mg/L		04/14/22 14:39	04/15/22 22:53	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		04/14/22 14:39	04/15/22 22:53	1
Boron	0.089		0.080	0.060	mg/L		04/14/22 14:39	04/15/22 22:53	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/14/22 14:39	04/15/22 22:53	1
Calcium	10		0.50	0.13	mg/L		04/14/22 14:39	04/15/22 22:53	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/14/22 14:39	04/15/22 22:53	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		04/14/22 14:39	04/15/22 22:53	1
Lead	<0.00017		0.0010	0.00017	mg/L		04/14/22 14:39	04/15/22 22:53	1
Lithium	0.011		0.0050	0.00083	mg/L		04/14/22 14:39	04/15/22 22:53	1
Molybdenum	0.00098	J	0.015	0.00061	mg/L		04/14/22 14:39	04/15/22 22:53	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/14/22 14:39	04/15/22 22:53	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/14/22 14:39	04/15/22 22:53	1
Iron	1.5		0.050	0.028	mg/L		04/14/22 14:39	04/15/22 22:53	1
Potassium	3.4		0.50	0.16	mg/L		04/14/22 14:39	04/15/22 22:53	1
Magnesium	1.8		0.50	0.050	mg/L		04/14/22 14:39	04/15/22 22:53	1
Manganese	0.14		0.0050	0.0013	mg/L		04/14/22 14:39	04/15/22 22:53	1
Sodium	37		0.50	0.18	mg/L		04/14/22 14:39	04/15/22 22:53	1
Silicon	19		0.50	0.062	mg/L		04/14/22 14:39	04/15/22 22:53	1
Strontium	0.31		0.0050	0.0017	mg/L		04/14/22 14:39	04/15/22 22:53	1
SiO2, Silica	40		1.1	0.15	mg/L		04/14/22 14:39	04/15/22 22:53	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/20/22 08:07	04/21/22 11:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.065		0.10	0.065	mg/L			04/15/22 14:21	1
Total Dissolved Solids	160		10	10	mg/L			04/11/22 19:01	1
Total Organic Carbon - Duplicates	<0.51		1.0	0.51	mg/L			04/09/22 23:38	1
Total Alkalinity as CaCO3 to pH 4.5	80		5.0	5.0	mg/L			04/09/22 17:27	1
Bicarbonate Alkalinity as CaCO3	80		5.0	5.0	mg/L			04/09/22 17:27	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/09/22 17:27	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Client Sample ID: APMW-8D

Lab Sample ID: 180-136424-18

Date Collected: 04/06/22 12:30

Matrix: Water

Date Received: 04/08/22 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.053		0.10	0.053	mg/L			04/19/22 17:32	1
Chloride	7.3		1.0	0.71	mg/L			04/19/22 17:32	1
Fluoride	0.14	J	0.20	0.026	mg/L			04/19/22 17:32	1
Sulfate	15		1.0	0.76	mg/L			04/19/22 17:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.016		0.030	0.016	mg/L		04/14/22 14:39	04/15/22 22:57	1
Antimony	<0.00051		0.0020	0.00051	mg/L		04/14/22 14:39	04/15/22 22:57	1
Arsenic	0.0028		0.0010	0.00028	mg/L		04/14/22 14:39	04/15/22 22:57	1
Barium	0.12		0.010	0.0031	mg/L		04/14/22 14:39	04/15/22 22:57	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		04/14/22 14:39	04/15/22 22:57	1
Boron	0.066	J	0.080	0.060	mg/L		04/14/22 14:39	04/15/22 22:57	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/14/22 14:39	04/15/22 22:57	1
Calcium	7.7		0.50	0.13	mg/L		04/14/22 14:39	04/15/22 22:57	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/14/22 14:39	04/15/22 22:57	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		04/14/22 14:39	04/15/22 22:57	1
Lead	<0.00017		0.0010	0.00017	mg/L		04/14/22 14:39	04/15/22 22:57	1
Lithium	0.0032	J	0.0050	0.00083	mg/L		04/14/22 14:39	04/15/22 22:57	1
Molybdenum	0.0011	J	0.015	0.00061	mg/L		04/14/22 14:39	04/15/22 22:57	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/14/22 14:39	04/15/22 22:57	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/14/22 14:39	04/15/22 22:57	1
Iron	6.4		0.050	0.028	mg/L		04/14/22 14:39	04/15/22 22:57	1
Potassium	2.3		0.50	0.16	mg/L		04/14/22 14:39	04/15/22 22:57	1
Magnesium	2.6		0.50	0.050	mg/L		04/14/22 14:39	04/15/22 22:57	1
Manganese	0.14		0.0050	0.0013	mg/L		04/14/22 14:39	04/15/22 22:57	1
Sodium	31		0.50	0.18	mg/L		04/14/22 14:39	04/15/22 22:57	1
Silicon	15		0.50	0.062	mg/L		04/14/22 14:39	04/15/22 22:57	1
Strontium	0.10		0.0050	0.0017	mg/L		04/14/22 14:39	04/15/22 22:57	1
SiO2, Silica	31		1.1	0.15	mg/L		04/14/22 14:39	04/15/22 22:57	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/20/22 08:07	04/21/22 11:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.065		0.10	0.065	mg/L			04/15/22 14:23	1
Total Dissolved Solids	130		10	10	mg/L			04/11/22 14:14	1
Total Organic Carbon - Duplicates	<0.51		1.0	0.51	mg/L			04/09/22 19:40	1
Total Alkalinity as CaCO3 to pH 4.5	82		5.0	5.0	mg/L			04/20/22 11:10	1
Bicarbonate Alkalinity as CaCO3	82		5.0	5.0	mg/L			04/20/22 11:10	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/20/22 11:10	1

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 180-395866/7
Matrix: Water
Analysis Batch: 395866

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.053		0.10	0.053	mg/L			04/19/22 08:25	1
Chloride	<0.71		1.0	0.71	mg/L			04/19/22 08:25	1
Fluoride	<0.026		0.20	0.026	mg/L			04/19/22 08:25	1
Sulfate	<0.76		1.0	0.76	mg/L			04/19/22 08:25	1

Lab Sample ID: LCS 180-395866/5
Matrix: Water
Analysis Batch: 395866

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	10.0	10.6		mg/L		106	90 - 110
Chloride	50.0	51.6		mg/L		103	90 - 110
Fluoride	2.50	2.66		mg/L		106	90 - 110
Sulfate	50.0	52.7		mg/L		105	90 - 110

Lab Sample ID: 180-136424-11 MS
Matrix: Water
Analysis Batch: 395866

Client Sample ID: DUP-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	0.16		10.0	11.1		mg/L		109	90 - 110
Chloride	19		50.0	71.1		mg/L		104	90 - 110
Fluoride	0.21		2.50	2.97		mg/L		110	90 - 110
Sulfate	11		50.0	65.2		mg/L		108	90 - 110

Lab Sample ID: 180-136424-11 MSD
Matrix: Water
Analysis Batch: 395866

Client Sample ID: DUP-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	0.16		10.0	10.8		mg/L		106	90 - 110	3	20
Chloride	19		50.0	69.2		mg/L		101	90 - 110	3	20
Fluoride	0.21		2.50	2.91		mg/L		108	90 - 110	2	20
Sulfate	11		50.0	62.8		mg/L		104	90 - 110	4	20

Lab Sample ID: MB 180-395869/50
Matrix: Water
Analysis Batch: 395869

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.053		0.10	0.053	mg/L			04/19/22 20:21	1
Chloride	<0.71		1.0	0.71	mg/L			04/19/22 20:21	1
Fluoride	<0.026		0.20	0.026	mg/L			04/19/22 20:21	1
Sulfate	<0.76		1.0	0.76	mg/L			04/19/22 20:21	1

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 180-395869/49
Matrix: Water
Analysis Batch: 395869

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	50.0		mg/L		100	90 - 110
Fluoride	2.50	2.43		mg/L		97	90 - 110
Sulfate	50.0	49.6		mg/L		99	90 - 110

Lab Sample ID: 180-136424-1 MS
Matrix: Water
Analysis Batch: 395869

Client Sample ID: PZ-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2400		2500	4860		mg/L		99	90 - 110
Sulfate	280		2500	2790		mg/L		100	90 - 110

Lab Sample ID: 180-136424-1 MSD
Matrix: Water
Analysis Batch: 395869

Client Sample ID: PZ-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	2400		2500	4850		mg/L		99	90 - 110	0	20
Sulfate	280		2500	2770		mg/L		100	90 - 110	1	20

Lab Sample ID: MB 180-396178/48
Matrix: Water
Analysis Batch: 396178

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.053		0.10	0.053	mg/L			04/21/22 19:57	1
Chloride	<0.71		1.0	0.71	mg/L			04/21/22 19:57	1
Fluoride	<0.026		0.20	0.026	mg/L			04/21/22 19:57	1
Sulfate	<0.76		1.0	0.76	mg/L			04/21/22 19:57	1

Lab Sample ID: LCS 180-396178/47
Matrix: Water
Analysis Batch: 396178

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	10.0	10.5		mg/L		105	90 - 110
Chloride	50.0	51.3		mg/L		103	90 - 110
Fluoride	2.50	2.62		mg/L		105	90 - 110
Sulfate	50.0	51.2		mg/L		102	90 - 110

Lab Sample ID: 180-136424-C-1 MS
Matrix: Water
Analysis Batch: 396178

Client Sample ID: 180-136424-C-1 MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide			500	570		mg/L			
Fluoride			125	143		mg/L			

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 180-136424-C-1 MSD
Matrix: Water
Analysis Batch: 396178

Client Sample ID: 180-136424-C-1 MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide			500	558		mg/L					
Fluoride			125	140		mg/L					

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

Lab Sample ID: MB 180-395483/1-A
Matrix: Water
Analysis Batch: 395659

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 395483

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.016		0.030	0.016	mg/L		04/14/22 14:39	04/15/22 19:15	1
Antimony	0.000640	J	0.0020	0.00051	mg/L		04/14/22 14:39	04/15/22 19:15	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		04/14/22 14:39	04/15/22 19:15	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/14/22 14:39	04/15/22 19:15	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/14/22 14:39	04/15/22 19:15	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		04/14/22 14:39	04/15/22 19:15	1
Lead	<0.00017		0.0010	0.00017	mg/L		04/14/22 14:39	04/15/22 19:15	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/14/22 14:39	04/15/22 19:15	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/14/22 14:39	04/15/22 19:15	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/14/22 14:39	04/15/22 19:15	1
Iron	<0.028		0.050	0.028	mg/L		04/14/22 14:39	04/15/22 19:15	1
Potassium	<0.16		0.50	0.16	mg/L		04/14/22 14:39	04/15/22 19:15	1
Magnesium	<0.050		0.50	0.050	mg/L		04/14/22 14:39	04/15/22 19:15	1
Manganese	<0.0013		0.0050	0.0013	mg/L		04/14/22 14:39	04/15/22 19:15	1
Silicon	<0.062		0.50	0.062	mg/L		04/14/22 14:39	04/15/22 19:15	1
SiO2, Silica	<0.15		1.1	0.15	mg/L		04/14/22 14:39	04/15/22 19:15	1

Lab Sample ID: MB 180-395483/1-A
Matrix: Water
Analysis Batch: 396006

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 395483

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.0031		0.010	0.0031	mg/L		04/14/22 14:39	04/16/22 10:51	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		04/14/22 14:39	04/16/22 10:51	1
Boron	<0.060		0.080	0.060	mg/L		04/14/22 14:39	04/16/22 10:51	1
Calcium	<0.13		0.50	0.13	mg/L		04/14/22 14:39	04/16/22 10:51	1
Lithium	<0.00083		0.0050	0.00083	mg/L		04/14/22 14:39	04/16/22 10:51	1
Sodium	<0.18		0.50	0.18	mg/L		04/14/22 14:39	04/16/22 10:51	1
Strontium	<0.0017		0.0050	0.0017	mg/L		04/14/22 14:39	04/16/22 10:51	1

Lab Sample ID: LCS 180-395483/2-A
Matrix: Water
Analysis Batch: 395659

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 395483

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5.00	4.66		mg/L		93	80 - 120
Antimony	0.250	0.248		mg/L		99	80 - 120
Arsenic	1.00	0.920		mg/L		92	80 - 120
Cadmium	0.500	0.489		mg/L		98	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

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

Lab Sample ID: LCS 180-395483/2-A
Matrix: Water
Analysis Batch: 395659

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 395483

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	0.500	0.483		mg/L		97	80 - 120
Cobalt	0.500	0.465		mg/L		93	80 - 120
Lead	0.500	0.486		mg/L		97	80 - 120
Lithium	0.500	0.462		mg/L		92	80 - 120
Molybdenum	0.500	0.485		mg/L		97	80 - 120
Selenium	1.00	0.962		mg/L		96	80 - 120
Thallium	1.00	0.971		mg/L		97	80 - 120
Iron	5.00	5.06		mg/L		101	80 - 120
Potassium	25.0	23.6		mg/L		94	80 - 120
Magnesium	25.0	24.5		mg/L		98	80 - 120
Manganese	0.500	0.455		mg/L		91	80 - 120
Silicon	1.00	0.956		mg/L		96	80 - 120
SiO2, Silica	2.14	2.04		mg/L		96	80 - 120

Lab Sample ID: LCS 180-395483/2-A
Matrix: Water
Analysis Batch: 396006

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 395483

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	1.00	0.962		mg/L		96	80 - 120
Beryllium	0.500	0.492		mg/L		98	80 - 120
Boron	1.25	1.11		mg/L		88	80 - 120
Calcium	25.0	25.1		mg/L		100	80 - 120
Lithium	0.500	0.459		mg/L		92	80 - 120
Sodium	25.0	24.7		mg/L		99	80 - 120
Strontium	0.500	0.458		mg/L		92	80 - 120

Lab Sample ID: 180-136424-1 MS
Matrix: Water
Analysis Batch: 395659

Client Sample ID: PZ-4
Prep Type: Total Recoverable
Prep Batch: 395483

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	<0.016		5.00	4.84		mg/L		97	75 - 125
Antimony	<0.00051		0.250	0.245		mg/L		98	75 - 125
Arsenic	0.21		1.00	1.17		mg/L		96	75 - 125
Cadmium	<0.00022		0.500	0.474		mg/L		95	75 - 125
Chromium	<0.0015		0.500	0.492		mg/L		98	75 - 125
Cobalt	<0.00026		0.500	0.481		mg/L		96	75 - 125
Lead	<0.00017		0.500	0.498		mg/L		100	75 - 125
Molybdenum	0.53		0.500	1.04		mg/L		101	75 - 125
Selenium	0.00079	J	1.00	0.908		mg/L		91	75 - 125
Thallium	<0.00047		1.00	0.991		mg/L		99	75 - 125
Iron	25		5.00	29.2	4	mg/L		87	75 - 125
Potassium	57	F1	25.0	77.6		mg/L		83	75 - 125
Magnesium	41		25.0	63.8		mg/L		93	75 - 125
Manganese	0.45		0.500	0.882		mg/L		86	75 - 125
Silicon	7.2		1.00	7.78	4	mg/L		54	75 - 125
SiO2, Silica	15		2.14	16.6	4	mg/L		54	75 - 125

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

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

Lab Sample ID: 180-136424-1 MS
Matrix: Water
Analysis Batch: 396006

Client Sample ID: PZ-4
Prep Type: Total Recoverable
Prep Batch: 395483

Analyte	Sample	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	%Rec	
	Result			Result	Qualifier				Limits	RPD
Barium	0.22		1.00	1.20		mg/L		98	75 - 125	
Beryllium	<0.0014		0.500	0.530		mg/L		106	75 - 125	
Boron	13		1.25	13.4	4	mg/L		62	75 - 125	
Calcium	310		25.0	327	4	mg/L		74	75 - 125	
Lithium	0.020	J	0.500	0.521		mg/L		100	75 - 125	
Sodium	1300		25.0	1250	4	mg/L		-69	75 - 125	
Strontium	4.0		0.500	4.46	4	mg/L		84	75 - 125	

Lab Sample ID: 180-136424-1 MSD
Matrix: Water
Analysis Batch: 395659

Client Sample ID: PZ-4
Prep Type: Total Recoverable
Prep Batch: 395483

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec		RPD
	Result			Result	Qualifier				Limits	RPD	Limit
Aluminum	<0.016		5.00	4.49		mg/L		90	75 - 125	7	20
Antimony	<0.00051		0.250	0.243		mg/L		97	75 - 125	0	20
Arsenic	0.21		1.00	1.11		mg/L		90	75 - 125	5	20
Cadmium	<0.00022		0.500	0.460		mg/L		92	75 - 125	3	20
Chromium	<0.0015		0.500	0.475		mg/L		95	75 - 125	3	20
Cobalt	<0.00026		0.500	0.456		mg/L		91	75 - 125	5	20
Lead	<0.00017		0.500	0.479		mg/L		96	75 - 125	4	20
Molybdenum	0.53		0.500	1.01		mg/L		96	75 - 125	2	20
Selenium	0.00079	J	1.00	0.903		mg/L		90	75 - 125	1	20
Thallium	<0.00047		1.00	0.963		mg/L		96	75 - 125	3	20
Iron	25		5.00	29.4	4	mg/L		91	75 - 125	1	20
Potassium	57	F1	25.0	74.3	F1	mg/L		70	75 - 125	4	20
Magnesium	41		25.0	60.8		mg/L		81	75 - 125	5	20
Manganese	0.45		0.500	0.830		mg/L		75	75 - 125	6	20
Silicon	7.2		1.00	7.56	4	mg/L		32	75 - 125	3	20
SiO2, Silica	15		2.14	16.2	4	mg/L		32	75 - 125	3	20

Lab Sample ID: 180-136424-1 MSD
Matrix: Water
Analysis Batch: 396006

Client Sample ID: PZ-4
Prep Type: Total Recoverable
Prep Batch: 395483

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec		RPD
	Result			Result	Qualifier				Limits	RPD	Limit
Barium	0.22		1.00	1.17		mg/L		95	75 - 125	3	20
Beryllium	<0.0014		0.500	0.514		mg/L		103	75 - 125	3	20
Boron	13		1.25	13.3	4	mg/L		59	75 - 125	0	20
Calcium	310		25.0	324	4	mg/L		64	75 - 125	1	20
Lithium	0.020	J	0.500	0.505		mg/L		97	75 - 125	3	20
Sodium	1300		25.0	1240	4	mg/L		-130	75 - 125	1	20
Strontium	4.0		0.500	4.44	4	mg/L		79	75 - 125	1	20

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-396036/1-A
Matrix: Water
Analysis Batch: 396234

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 396036

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/20/22 08:07	04/21/22 10:58	1

Lab Sample ID: LCS 180-396036/2-A
Matrix: Water
Analysis Batch: 396234

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 396036

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00248		mg/L		99	80 - 120

Lab Sample ID: 180-136424-1 MS
Matrix: Water
Analysis Batch: 396234

Client Sample ID: PZ-4
Prep Type: Total/NA
Prep Batch: 396036

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00013		0.00100	0.00106		mg/L		106	75 - 125

Lab Sample ID: 180-136424-1 MSD
Matrix: Water
Analysis Batch: 396234

Client Sample ID: PZ-4
Prep Type: Total/NA
Prep Batch: 396036

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00013		0.00100	0.00102		mg/L		102	75 - 125	4	20

Method: EPA 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 180-395642/21
Matrix: Water
Analysis Batch: 395642

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.065		0.10	0.065	mg/L			04/15/22 13:19	1

Lab Sample ID: MB 180-395642/56
Matrix: Water
Analysis Batch: 395642

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.065		0.10	0.065	mg/L			04/15/22 14:15	1

Lab Sample ID: LCS 180-395642/20
Matrix: Water
Analysis Batch: 395642

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	2.00	2.06		mg/L		103	90 - 110

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Method: EPA 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: LCS 180-395642/52
Matrix: Water
Analysis Batch: 395642

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	2.00	2.12		mg/L		106	90 - 110

Lab Sample ID: 180-136424-6 MS
Matrix: Water
Analysis Batch: 395642

Client Sample ID: APMW-6R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	0.13	F1	2.00	1.79	F1	mg/L		83	90 - 110

Lab Sample ID: 180-136424-6 MSD
Matrix: Water
Analysis Batch: 395642

Client Sample ID: APMW-6R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.13	F1	2.00	1.90	F1	mg/L		89	90 - 110	6	20

Lab Sample ID: 180-136424-16 MS
Matrix: Water
Analysis Batch: 395642

Client Sample ID: APMW-5D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	<0.065		2.00	2.12		mg/L		106	90 - 110

Lab Sample ID: 180-136424-16 MSD
Matrix: Water
Analysis Batch: 395642

Client Sample ID: APMW-5D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	<0.065		2.00	2.04		mg/L		102	90 - 110	4	20

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

Lab Sample ID: MB 180-394982/2
Matrix: Water
Analysis Batch: 394982

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		10	10	mg/L			04/11/22 14:14	1

Lab Sample ID: LCS 180-394982/1
Matrix: Water
Analysis Batch: 394982

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	469	480		mg/L		102	85 - 115

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

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

Lab Sample ID: MB 180-394988/2
Matrix: Water
Analysis Batch: 394988

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		10	10	mg/L			04/11/22 14:34	1

Lab Sample ID: LCS 180-394988/1
Matrix: Water
Analysis Batch: 394988

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	469	464		mg/L		99	85 - 115

Lab Sample ID: MB 180-395009/2
Matrix: Water
Analysis Batch: 395009

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		10	10	mg/L			04/11/22 19:01	1

Lab Sample ID: LCS 180-395009/1
Matrix: Water
Analysis Batch: 395009

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	469	456		mg/L		97	85 - 115

Lab Sample ID: 180-136424-17 DU
Matrix: Water
Analysis Batch: 395009

Client Sample ID: APMW-6D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	160		158		mg/L		0	10

Method: SM 5310C - Total Organic Carbon

Lab Sample ID: MB 180-395080/32
Matrix: Water
Analysis Batch: 395080

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	<0.51		1.0	0.51	mg/L			04/09/22 21:32	1

Lab Sample ID: MB 180-395080/5
Matrix: Water
Analysis Batch: 395080

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	<0.51		1.0	0.51	mg/L			04/09/22 13:48	1

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Method: SM 5310C - Total Organic Carbon (Continued)

Lab Sample ID: LCS 180-395080/3
Matrix: Water
Analysis Batch: 395080

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Duplicates	20.0	20.7		mg/L		103	85 - 115

Lab Sample ID: LCS 180-395080/30
Matrix: Water
Analysis Batch: 395080

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Duplicates	20.0	19.9		mg/L		99	85 - 115

Lab Sample ID: LCSD 180-395080/31
Matrix: Water
Analysis Batch: 395080

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Duplicates	20.0	20.7		mg/L		104	85 - 115	4	20

Lab Sample ID: LCSD 180-395080/4
Matrix: Water
Analysis Batch: 395080

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Duplicates	20.0	20.9		mg/L		104	85 - 115	1	20

Lab Sample ID: MB 180-395223/5
Matrix: Water
Analysis Batch: 395223

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	<0.51		1.0	0.51	mg/L			04/12/22 17:36	1

Lab Sample ID: LCS 180-395223/3
Matrix: Water
Analysis Batch: 395223

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Duplicates	20.0	21.4		mg/L		107	85 - 115

Lab Sample ID: LCSD 180-395223/4
Matrix: Water
Analysis Batch: 395223

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Duplicates	20.0	20.9		mg/L		104	85 - 115	3	20

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: MB 180-395077/30
Matrix: Water
Analysis Batch: 395077

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			04/09/22 15:28	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/09/22 15:28	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/09/22 15:28	1

Lab Sample ID: MB 180-395077/54
Matrix: Water
Analysis Batch: 395077

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			04/09/22 18:17	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/09/22 18:17	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/09/22 18:17	1

Lab Sample ID: MB 180-395077/78
Matrix: Water
Analysis Batch: 395077

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			04/09/22 21:16	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/09/22 21:16	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/09/22 21:16	1

Lab Sample ID: LCS 180-395077/29
Matrix: Water
Analysis Batch: 395077

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	265	241		mg/L		91	90 - 110

Lab Sample ID: LCS 180-395077/53
Matrix: Water
Analysis Batch: 395077

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	265	243		mg/L		92	90 - 110

Lab Sample ID: LCS 180-395077/77
Matrix: Water
Analysis Batch: 395077

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	265	247		mg/L		93	90 - 110

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: LLCS 180-395077/28
Matrix: Water
Analysis Batch: 395077

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	15.9	14.1		mg/L		89	75 - 125

Lab Sample ID: LLCS 180-395077/52
Matrix: Water
Analysis Batch: 395077

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	15.9	14.0		mg/L		88	75 - 125

Lab Sample ID: LLCS 180-395077/76
Matrix: Water
Analysis Batch: 395077

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	15.9	14.6		mg/L		92	75 - 125

Lab Sample ID: 180-136424-3 DU
Matrix: Water
Analysis Batch: 395077

Client Sample ID: FB-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	<5.0		<5.0		mg/L		NC	20
Bicarbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	20
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	20

Lab Sample ID: 180-136424-4 DU
Matrix: Water
Analysis Batch: 395077

Client Sample ID: APMW-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	160		165		mg/L		4	20
Bicarbonate Alkalinity as CaCO3	160		165		mg/L		4	20
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	20

Lab Sample ID: 180-136424-10 DU
Matrix: Water
Analysis Batch: 395077

Client Sample ID: DUP-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	570		566		mg/L		0.2	20
Bicarbonate Alkalinity as CaCO3	570		566		mg/L		0.2	20
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	20

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: MB 180-395395/54
Matrix: Water
Analysis Batch: 395395

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			04/13/22 21:53	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/13/22 21:53	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/13/22 21:53	1

Lab Sample ID: LCS 180-395395/53
Matrix: Water
Analysis Batch: 395395

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	265	244		mg/L		92	90 - 110

Lab Sample ID: LLCS 180-395395/52
Matrix: Water
Analysis Batch: 395395

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	15.9	14.5		mg/L		91	75 - 125

Lab Sample ID: 180-136424-11 DU
Matrix: Water
Analysis Batch: 395395

Client Sample ID: DUP-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	78		78.6		mg/L		0.7	20
Bicarbonate Alkalinity as CaCO3	78		78.6		mg/L		0.7	20
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	20

Lab Sample ID: MB 180-395892/30
Matrix: Water
Analysis Batch: 395892

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			04/14/22 17:56	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/14/22 17:56	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/14/22 17:56	1

Lab Sample ID: MB 180-395892/6
Matrix: Water
Analysis Batch: 395892

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			04/14/22 14:52	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/14/22 14:52	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/14/22 14:52	1

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: LCS 180-395892/29
Matrix: Water
Analysis Batch: 395892

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	265	251		mg/L		95	90 - 110

Lab Sample ID: LCS 180-395892/5
Matrix: Water
Analysis Batch: 395892

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	265	246		mg/L		93	90 - 110

Lab Sample ID: LLCS 180-395892/28
Matrix: Water
Analysis Batch: 395892

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	15.9	17.1		mg/L		108	75 - 125

Lab Sample ID: LLCS 180-395892/4
Matrix: Water
Analysis Batch: 395892

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	15.9	17.2		mg/L		108	75 - 125

Lab Sample ID: LB 180-394617/1-A
Matrix: Water
Analysis Batch: 396119

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

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			04/20/22 11:33	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/20/22 11:33	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/20/22 11:33	1

Lab Sample ID: MB 180-396119/2
Matrix: Water
Analysis Batch: 396119

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			04/20/22 10:52	1

Lab Sample ID: MB 180-396119/28
Matrix: Water
Analysis Batch: 396119

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			04/20/22 11:45	1

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QC Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: LCS 180-396119/1
Matrix: Water
Analysis Batch: 396119

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	265	241		mg/L		91	90 - 110

Lab Sample ID: LCS 180-396119/27
Matrix: Water
Analysis Batch: 396119

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	265	249		mg/L		94	90 - 110

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- 3
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- 12
- 13

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

HPLC/IC

Analysis Batch: 395866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136424-11	DUP-04	Total/NA	Water	300.0	
180-136424-12	APMW-13	Total/NA	Water	300.0	
180-136424-13	APMW-14	Total/NA	Water	300.0	
180-136424-14	APMW-15	Total/NA	Water	300.0	
180-136424-15	APMW-16	Total/NA	Water	300.0	
180-136424-16	APMW-5D	Total/NA	Water	300.0	
180-136424-17	APMW-6D	Total/NA	Water	300.0	
180-136424-18	APMW-8D	Total/NA	Water	300.0	
MB 180-395866/7	Method Blank	Total/NA	Water	300.0	
LCS 180-395866/5	Lab Control Sample	Total/NA	Water	300.0	
180-136424-11 MS	DUP-04	Total/NA	Water	300.0	
180-136424-11 MSD	DUP-04	Total/NA	Water	300.0	

Analysis Batch: 395869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136424-1	PZ-4	Total/NA	Water	300.0	
180-136424-2	EB-02	Total/NA	Water	300.0	
180-136424-3	FB-02	Total/NA	Water	300.0	
180-136424-4	APMW-4	Total/NA	Water	300.0	
180-136424-5	APMW-5	Total/NA	Water	300.0	
180-136424-6	APMW-6R	Total/NA	Water	300.0	
180-136424-7	APMW-7	Total/NA	Water	300.0	
180-136424-8	APMW-8	Total/NA	Water	300.0	
180-136424-9	APMW-9	Total/NA	Water	300.0	
180-136424-10	DUP-03	Total/NA	Water	300.0	
MB 180-395869/50	Method Blank	Total/NA	Water	300.0	
LCS 180-395869/49	Lab Control Sample	Total/NA	Water	300.0	
180-136424-1 MS	PZ-4	Total/NA	Water	300.0	
180-136424-1 MSD	PZ-4	Total/NA	Water	300.0	

Analysis Batch: 396178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136424-1	PZ-4	Total/NA	Water	300.0	
180-136424-2	EB-02	Total/NA	Water	300.0	
180-136424-3	FB-02	Total/NA	Water	300.0	
180-136424-4	APMW-4	Total/NA	Water	300.0	
180-136424-5	APMW-5	Total/NA	Water	300.0	
180-136424-6	APMW-6R	Total/NA	Water	300.0	
180-136424-7	APMW-7	Total/NA	Water	300.0	
180-136424-8	APMW-8	Total/NA	Water	300.0	
180-136424-9	APMW-9	Total/NA	Water	300.0	
180-136424-10	DUP-03	Total/NA	Water	300.0	
MB 180-396178/48	Method Blank	Total/NA	Water	300.0	
LCS 180-396178/47	Lab Control Sample	Total/NA	Water	300.0	
180-136424-C-1 MS	180-136424-C-1 MS	Total/NA	Water	300.0	
180-136424-C-1 MSD	180-136424-C-1 MSD	Total/NA	Water	300.0	

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Metals

Prep Batch: 395483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136424-1	PZ-4	Total Recoverable	Water	3005A	
180-136424-2	EB-02	Total Recoverable	Water	3005A	
180-136424-3	FB-02	Total Recoverable	Water	3005A	
180-136424-4	APMW-4	Total Recoverable	Water	3005A	
180-136424-5	APMW-5	Total Recoverable	Water	3005A	
180-136424-6	APMW-6R	Total Recoverable	Water	3005A	
180-136424-7	APMW-7	Total Recoverable	Water	3005A	
180-136424-8	APMW-8	Total Recoverable	Water	3005A	
180-136424-9	APMW-9	Total Recoverable	Water	3005A	
180-136424-10	DUP-03	Total Recoverable	Water	3005A	
180-136424-11	DUP-04	Total Recoverable	Water	3005A	
180-136424-12	APMW-13	Total Recoverable	Water	3005A	
180-136424-13	APMW-14	Total Recoverable	Water	3005A	
180-136424-14	APMW-15	Total Recoverable	Water	3005A	
180-136424-15	APMW-16	Total Recoverable	Water	3005A	
180-136424-16	APMW-5D	Total Recoverable	Water	3005A	
180-136424-17	APMW-6D	Total Recoverable	Water	3005A	
180-136424-18	APMW-8D	Total Recoverable	Water	3005A	
MB 180-395483/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-395483/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-136424-1 MS	PZ-4	Total Recoverable	Water	3005A	
180-136424-1 MSD	PZ-4	Total Recoverable	Water	3005A	

Analysis Batch: 395659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136424-1	PZ-4	Total Recoverable	Water	EPA 6020B	395483
180-136424-2	EB-02	Total Recoverable	Water	EPA 6020B	395483
180-136424-3	FB-02	Total Recoverable	Water	EPA 6020B	395483
180-136424-4	APMW-4	Total Recoverable	Water	EPA 6020B	395483
180-136424-5	APMW-5	Total Recoverable	Water	EPA 6020B	395483
180-136424-6	APMW-6R	Total Recoverable	Water	EPA 6020B	395483
180-136424-7	APMW-7	Total Recoverable	Water	EPA 6020B	395483
180-136424-8	APMW-8	Total Recoverable	Water	EPA 6020B	395483
180-136424-9	APMW-9	Total Recoverable	Water	EPA 6020B	395483
180-136424-10	DUP-03	Total Recoverable	Water	EPA 6020B	395483
180-136424-11	DUP-04	Total Recoverable	Water	EPA 6020B	395483
180-136424-12	APMW-13	Total Recoverable	Water	EPA 6020B	395483
180-136424-13	APMW-14	Total Recoverable	Water	EPA 6020B	395483
180-136424-14	APMW-15	Total Recoverable	Water	EPA 6020B	395483
180-136424-15	APMW-16	Total Recoverable	Water	EPA 6020B	395483
180-136424-16	APMW-5D	Total Recoverable	Water	EPA 6020B	395483
180-136424-17	APMW-6D	Total Recoverable	Water	EPA 6020B	395483
180-136424-18	APMW-8D	Total Recoverable	Water	EPA 6020B	395483
MB 180-395483/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	395483
LCS 180-395483/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	395483
180-136424-1 MS	PZ-4	Total Recoverable	Water	EPA 6020B	395483
180-136424-1 MSD	PZ-4	Total Recoverable	Water	EPA 6020B	395483

Analysis Batch: 396006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136424-1	PZ-4	Total Recoverable	Water	EPA 6020B	395483

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QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Metals (Continued)

Analysis Batch: 396006 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136424-2	EB-02	Total Recoverable	Water	EPA 6020B	395483
180-136424-3	FB-02	Total Recoverable	Water	EPA 6020B	395483
180-136424-4	APMW-4	Total Recoverable	Water	EPA 6020B	395483
180-136424-5	APMW-5	Total Recoverable	Water	EPA 6020B	395483
180-136424-6	APMW-6R	Total Recoverable	Water	EPA 6020B	395483
180-136424-7	APMW-7	Total Recoverable	Water	EPA 6020B	395483
180-136424-8	APMW-8	Total Recoverable	Water	EPA 6020B	395483
180-136424-9	APMW-9	Total Recoverable	Water	EPA 6020B	395483
180-136424-10	DUP-03	Total Recoverable	Water	EPA 6020B	395483
180-136424-13	APMW-14	Total Recoverable	Water	EPA 6020B	395483
180-136424-14	APMW-15	Total Recoverable	Water	EPA 6020B	395483
180-136424-15	APMW-16	Total Recoverable	Water	EPA 6020B	395483
180-136424-16	APMW-5D	Total Recoverable	Water	EPA 6020B	395483
MB 180-395483/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	395483
LCS 180-395483/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	395483
180-136424-1 MS	PZ-4	Total Recoverable	Water	EPA 6020B	395483
180-136424-1 MSD	PZ-4	Total Recoverable	Water	EPA 6020B	395483

Prep Batch: 396036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136424-1	PZ-4	Total/NA	Water	7470A	
180-136424-2	EB-02	Total/NA	Water	7470A	
180-136424-3	FB-02	Total/NA	Water	7470A	
180-136424-4	APMW-4	Total/NA	Water	7470A	
180-136424-5	APMW-5	Total/NA	Water	7470A	
180-136424-6	APMW-6R	Total/NA	Water	7470A	
180-136424-7	APMW-7	Total/NA	Water	7470A	
180-136424-8	APMW-8	Total/NA	Water	7470A	
180-136424-9	APMW-9	Total/NA	Water	7470A	
180-136424-10	DUP-03	Total/NA	Water	7470A	
180-136424-11	DUP-04	Total/NA	Water	7470A	
180-136424-12	APMW-13	Total/NA	Water	7470A	
180-136424-13	APMW-14	Total/NA	Water	7470A	
180-136424-14	APMW-15	Total/NA	Water	7470A	
180-136424-15	APMW-16	Total/NA	Water	7470A	
180-136424-16	APMW-5D	Total/NA	Water	7470A	
180-136424-17	APMW-6D	Total/NA	Water	7470A	
180-136424-18	APMW-8D	Total/NA	Water	7470A	
MB 180-396036/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-396036/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-136424-1 MS	PZ-4	Total/NA	Water	7470A	
180-136424-1 MSD	PZ-4	Total/NA	Water	7470A	

Analysis Batch: 396234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136424-1	PZ-4	Total/NA	Water	EPA 7470A	396036
180-136424-2	EB-02	Total/NA	Water	EPA 7470A	396036
180-136424-3	FB-02	Total/NA	Water	EPA 7470A	396036
180-136424-4	APMW-4	Total/NA	Water	EPA 7470A	396036
180-136424-5	APMW-5	Total/NA	Water	EPA 7470A	396036
180-136424-6	APMW-6R	Total/NA	Water	EPA 7470A	396036

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QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

Metals (Continued)

Analysis Batch: 396234 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136424-7	APMW-7	Total/NA	Water	EPA 7470A	396036
180-136424-8	APMW-8	Total/NA	Water	EPA 7470A	396036
180-136424-9	APMW-9	Total/NA	Water	EPA 7470A	396036
180-136424-10	DUP-03	Total/NA	Water	EPA 7470A	396036
180-136424-11	DUP-04	Total/NA	Water	EPA 7470A	396036
180-136424-12	APMW-13	Total/NA	Water	EPA 7470A	396036
180-136424-13	APMW-14	Total/NA	Water	EPA 7470A	396036
180-136424-14	APMW-15	Total/NA	Water	EPA 7470A	396036
180-136424-15	APMW-16	Total/NA	Water	EPA 7470A	396036
180-136424-16	APMW-5D	Total/NA	Water	EPA 7470A	396036
180-136424-17	APMW-6D	Total/NA	Water	EPA 7470A	396036
180-136424-18	APMW-8D	Total/NA	Water	EPA 7470A	396036
MB 180-396036/1-A	Method Blank	Total/NA	Water	EPA 7470A	396036
LCS 180-396036/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	396036
180-136424-1 MS	PZ-4	Total/NA	Water	EPA 7470A	396036
180-136424-1 MSD	PZ-4	Total/NA	Water	EPA 7470A	396036

General Chemistry

Leach Batch: 394617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 180-394617/1-A	Method Blank	Total/NA	Water	D3987-85	

Analysis Batch: 394982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136424-18	APMW-8D	Total/NA	Water	SM 2540C	
MB 180-394982/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-394982/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 394988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136424-1	PZ-4	Total/NA	Water	SM 2540C	
180-136424-2	EB-02	Total/NA	Water	SM 2540C	
180-136424-3	FB-02	Total/NA	Water	SM 2540C	
180-136424-4	APMW-4	Total/NA	Water	SM 2540C	
180-136424-6	APMW-6R	Total/NA	Water	SM 2540C	
180-136424-7	APMW-7	Total/NA	Water	SM 2540C	
180-136424-8	APMW-8	Total/NA	Water	SM 2540C	
180-136424-9	APMW-9	Total/NA	Water	SM 2540C	
180-136424-10	DUP-03	Total/NA	Water	SM 2540C	
180-136424-11	DUP-04	Total/NA	Water	SM 2540C	
180-136424-12	APMW-13	Total/NA	Water	SM 2540C	
180-136424-13	APMW-14	Total/NA	Water	SM 2540C	
180-136424-14	APMW-15	Total/NA	Water	SM 2540C	
180-136424-15	APMW-16	Total/NA	Water	SM 2540C	
180-136424-16	APMW-5D	Total/NA	Water	SM 2540C	
MB 180-394988/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-394988/1	Lab Control Sample	Total/NA	Water	SM 2540C	

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

General Chemistry

Analysis Batch: 395009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136424-5	APMW-5	Total/NA	Water	SM 2540C	
180-136424-17	APMW-6D	Total/NA	Water	SM 2540C	
MB 180-395009/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-395009/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-136424-17 DU	APMW-6D	Total/NA	Water	SM 2540C	

Analysis Batch: 395077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136424-1	PZ-4	Total/NA	Water	SM2320 B	
180-136424-3	FB-02	Total/NA	Water	SM2320 B	
180-136424-4	APMW-4	Total/NA	Water	SM2320 B	
180-136424-6	APMW-6R	Total/NA	Water	SM2320 B	
180-136424-10	DUP-03	Total/NA	Water	SM2320 B	
180-136424-12	APMW-13	Total/NA	Water	SM2320 B	
180-136424-13	APMW-14	Total/NA	Water	SM2320 B	
180-136424-17	APMW-6D	Total/NA	Water	SM2320 B	
MB 180-395077/30	Method Blank	Total/NA	Water	SM2320 B	
MB 180-395077/54	Method Blank	Total/NA	Water	SM2320 B	
MB 180-395077/78	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-395077/29	Lab Control Sample	Total/NA	Water	SM2320 B	
LCS 180-395077/53	Lab Control Sample	Total/NA	Water	SM2320 B	
LCS 180-395077/77	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-395077/28	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-395077/52	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-395077/76	Lab Control Sample	Total/NA	Water	SM2320 B	
180-136424-3 DU	FB-02	Total/NA	Water	SM2320 B	
180-136424-4 DU	APMW-4	Total/NA	Water	SM2320 B	
180-136424-10 DU	DUP-03	Total/NA	Water	SM2320 B	

Analysis Batch: 395080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136424-2	EB-02	Total/NA	Water	SM 5310C	
180-136424-3	FB-02	Total/NA	Water	SM 5310C	
180-136424-6	APMW-6R	Total/NA	Water	SM 5310C	
180-136424-8	APMW-8	Total/NA	Water	SM 5310C	
180-136424-9	APMW-9	Total/NA	Water	SM 5310C	
180-136424-11	DUP-04	Total/NA	Water	SM 5310C	
180-136424-12	APMW-13	Total/NA	Water	SM 5310C	
180-136424-13	APMW-14	Total/NA	Water	SM 5310C	
180-136424-16	APMW-5D	Total/NA	Water	SM 5310C	
180-136424-17	APMW-6D	Total/NA	Water	SM 5310C	
180-136424-18	APMW-8D	Total/NA	Water	SM 5310C	
MB 180-395080/32	Method Blank	Total/NA	Water	SM 5310C	
MB 180-395080/5	Method Blank	Total/NA	Water	SM 5310C	
LCS 180-395080/3	Lab Control Sample	Total/NA	Water	SM 5310C	
LCS 180-395080/30	Lab Control Sample	Total/NA	Water	SM 5310C	
LCSD 180-395080/31	Lab Control Sample Dup	Total/NA	Water	SM 5310C	
LCSD 180-395080/4	Lab Control Sample Dup	Total/NA	Water	SM 5310C	

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

General Chemistry

Analysis Batch: 395223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136424-1	PZ-4	Total/NA	Water	SM 5310C	
180-136424-4	APMW-4	Total/NA	Water	SM 5310C	
180-136424-5	APMW-5	Total/NA	Water	SM 5310C	
180-136424-7	APMW-7	Total/NA	Water	SM 5310C	
180-136424-10	DUP-03	Total/NA	Water	SM 5310C	
180-136424-14	APMW-15	Total/NA	Water	SM 5310C	
180-136424-15	APMW-16	Total/NA	Water	SM 5310C	
MB 180-395223/5	Method Blank	Total/NA	Water	SM 5310C	
LCS 180-395223/3	Lab Control Sample	Total/NA	Water	SM 5310C	
LCSD 180-395223/4	Lab Control Sample Dup	Total/NA	Water	SM 5310C	

Analysis Batch: 395395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136424-11	DUP-04	Total/NA	Water	SM2320 B	
MB 180-395395/54	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-395395/53	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-395395/52	Lab Control Sample	Total/NA	Water	SM2320 B	
180-136424-11 DU	DUP-04	Total/NA	Water	SM2320 B	

Analysis Batch: 395642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136424-1	PZ-4	Total/NA	Water	EPA 353.2	
180-136424-2	EB-02	Total/NA	Water	EPA 353.2	
180-136424-3	FB-02	Total/NA	Water	EPA 353.2	
180-136424-4	APMW-4	Total/NA	Water	EPA 353.2	
180-136424-5	APMW-5	Total/NA	Water	EPA 353.2	
180-136424-6	APMW-6R	Total/NA	Water	EPA 353.2	
180-136424-7	APMW-7	Total/NA	Water	EPA 353.2	
180-136424-8	APMW-8	Total/NA	Water	EPA 353.2	
180-136424-9	APMW-9	Total/NA	Water	EPA 353.2	
180-136424-10	DUP-03	Total/NA	Water	EPA 353.2	
180-136424-11	DUP-04	Total/NA	Water	EPA 353.2	
180-136424-12	APMW-13	Total/NA	Water	EPA 353.2	
180-136424-13	APMW-14	Total/NA	Water	EPA 353.2	
180-136424-14	APMW-15	Total/NA	Water	EPA 353.2	
180-136424-15	APMW-16	Total/NA	Water	EPA 353.2	
180-136424-16	APMW-5D	Total/NA	Water	EPA 353.2	
180-136424-17	APMW-6D	Total/NA	Water	EPA 353.2	
180-136424-18	APMW-8D	Total/NA	Water	EPA 353.2	
MB 180-395642/21	Method Blank	Total/NA	Water	EPA 353.2	
MB 180-395642/56	Method Blank	Total/NA	Water	EPA 353.2	
LCS 180-395642/20	Lab Control Sample	Total/NA	Water	EPA 353.2	
LCS 180-395642/52	Lab Control Sample	Total/NA	Water	EPA 353.2	
180-136424-6 MS	APMW-6R	Total/NA	Water	EPA 353.2	
180-136424-6 MSD	APMW-6R	Total/NA	Water	EPA 353.2	
180-136424-16 MS	APMW-5D	Total/NA	Water	EPA 353.2	
180-136424-16 MSD	APMW-5D	Total/NA	Water	EPA 353.2	

Analysis Batch: 395892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136424-5	APMW-5	Total/NA	Water	SM2320 B	

Eurofins Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-1

General Chemistry (Continued)

Analysis Batch: 395892 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136424-7	APMW-7	Total/NA	Water	SM2320 B	
180-136424-8	APMW-8	Total/NA	Water	SM2320 B	
180-136424-9	APMW-9	Total/NA	Water	SM2320 B	
MB 180-395892/30	Method Blank	Total/NA	Water	SM2320 B	
MB 180-395892/6	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-395892/29	Lab Control Sample	Total/NA	Water	SM2320 B	
LCS 180-395892/5	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-395892/28	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-395892/4	Lab Control Sample	Total/NA	Water	SM2320 B	

Analysis Batch: 396119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136424-2	EB-02	Total/NA	Water	SM2320 B	
180-136424-14	APMW-15	Total/NA	Water	SM2320 B	
180-136424-15	APMW-16	Total/NA	Water	SM2320 B	
180-136424-16	APMW-5D	Total/NA	Water	SM2320 B	
180-136424-18	APMW-8D	Total/NA	Water	SM2320 B	
LB 180-394617/1-A	Method Blank	Total/NA	Water	SM2320 B	394617
MB 180-396119/2	Method Blank	Total/NA	Water	SM2320 B	
MB 180-396119/28	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-396119/1	Lab Control Sample	Total/NA	Water	SM2320 B	
LCS 180-396119/27	Lab Control Sample	Total/NA	Water	SM2320 B	

Chain of Custody Record

Client Information			Sampler: <i>Brown/Theriot/Colton/evans</i>	Lab PM: Brown, Shali	Carrier Tracking No(s):	COC No:														
Client Contact:			Phone: <i>850-336-0192</i>	E-Mail: shali.brown@eurofinset.com		Page: <i>182</i>														
SCS Contacts						Job #: <i>182</i>														
Company: SCS			Analysis Requested			Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify) Other:														
Address: 3535 Colonnade Pkwy Bin S 530 EC							Due Date Requested:													
City: Birmingham							TAT Requested (days):													
State, Zip: AL, 35243							PO #:													
Phone: 205-992-6283							WO #:													
Project Name: Plant Watson			Project #: 18020186																	
Site: Ash Pond			SSOW#:																	
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	MATRIX (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	<table border="1"> <tr> <td>Field Filtered Sample (Yes or No)</td> <td>Field Dried (Yes or No)</td> <td>2540C Total Dissolved Solids</td> <td>300_28Day Chloride Fluoride Sulfate Bromide</td> <td>6020BF/7470 Custom 23 (App/Imp/Vol) + Mercury</td> <td>+ Fe Mg Na Al Mn K Sr Si and Silica</td> <td>363.2 Nitrate/Nitrite NOX (pres)</td> <td>5310C Total Organic Carbon</td> <td>2320B Alkalinity, Total, Carb, Bicarb</td> <td>9315_Ra226 Radium 226</td> <td>9320_Ra228 Radium 228</td> <td>Combined RAD</td> <td>2540 Total Suspended Solids</td> <td>Total Number of containers</td> </tr> </table>		Field Filtered Sample (Yes or No)	Field Dried (Yes or No)	2540C Total Dissolved Solids	300_28Day Chloride Fluoride Sulfate Bromide	6020BF/7470 Custom 23 (App/Imp/Vol) + Mercury	+ Fe Mg Na Al Mn K Sr Si and Silica	363.2 Nitrate/Nitrite NOX (pres)	5310C Total Organic Carbon	2320B Alkalinity, Total, Carb, Bicarb	9315_Ra226 Radium 226	9320_Ra228 Radium 228	Combined RAD	2540 Total Suspended Solids	Total Number of containers
Field Filtered Sample (Yes or No)	Field Dried (Yes or No)	2540C Total Dissolved Solids	300_28Day Chloride Fluoride Sulfate Bromide	6020BF/7470 Custom 23 (App/Imp/Vol) + Mercury	+ Fe Mg Na Al Mn K Sr Si and Silica	363.2 Nitrate/Nitrite NOX (pres)	5310C Total Organic Carbon	2320B Alkalinity, Total, Carb, Bicarb	9315_Ra226 Radium 226	9320_Ra228 Radium 228	Combined RAD	2540 Total Suspended Solids	Total Number of containers							
Preservation Code:					Special Instructions/Note:															
APMW-TR <i>PZ-4</i>	<i>4-6-22</i>	<i>1745</i>	<i>G</i>	<i>GW</i>	<i>Lot #s for bottles are on Bottle order # 15213</i>															
APMW-2 <i>EB-02</i>	<i>4-7-22</i>	<i>0858</i>	<i>G</i>	<i>DI HW WATER</i>																
APMW-3 <i>FB-02</i>	<i>4-7-22</i>	<i>0815</i>	<i>G</i>	<i>DI HW WATER</i>																
APMW-4	<i>4-6-22</i>	<i>0902</i>	<i>G</i>	<i>GW</i>																
APMW-5	<i>4-6-22</i>	<i>1450</i>	<i>G</i>	<i>GW</i>																
APMW-6R	<i>4-7-22</i>	<i>1047</i>	<i>G</i>	<i>GW</i>																
APMW-7	<i>4-6-22</i>	<i>1515</i>	<i>G</i>	<i>GW</i>																
APMW-8	<i>4-6-22</i>	<i>1036</i>	<i>G</i>	<i>GW</i>																
APMW-9	<i>4-6-22</i>	<i>0831</i>	<i>G</i>	<i>GW</i>																
APMW-10 <i>DUP-03</i>	<i>4-6-22</i>	<i>1415</i>	<i>G</i>	<i>GW</i>																
APMW-11 <i>DUP-04</i>	<i>4-7-22</i>	<i>0710</i>	<i>G</i>	<i>GW</i>																
Possible Hazard Identification <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 for) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For															
Deliverable Requested: I, II, III, IV, Other (specify)					Special Instructions/QC Requirements:															
Empty Kit Relinquished by:			Date:	Time:	Method of Shipment:															
Relinquished by: <i>Jerry King</i>			Date/Time: <i>4-7-22 1530</i>	Company: <i>ROH ENV.</i>	Received by: <i>D W Wilson</i>	Date/Time: <i>4-8-22 900</i>														
Relinquished by:			Date/Time:	Company:	Received by:	Date/Time:														
Relinquished by:			Date/Time:	Company:	Received by:	Date/Time:														
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:																



Chain of Custody Record

Client Information				Sampler: <u>Rich Henderson / Colm Krev...</u>		Lab PM: Brown, Shali		Carrier Tracking No(s):		COC No:																													
Client Contact: SCS Contacts				Phone: <u>850 336 0192</u>		E-Mail: shali.brown@eurofinset.com				Page: <u>2 of 2</u>																													
Company: SCS				Analysis Requested								Job #:																											
Address: 3535 Colonnade Pkwy Bin S 530 EC				Due Date Requested:		Field Filtered Sample (Yes or No) # of Containers (Yes or No)		2540C Total Dissolved Solids		300_28Day Chloride Fluoride Sulfate Bromide		6020B/7470 Custom 23 (Appl/ ApplV-9) + Mercury		+ Fe Mg Na Al Mn K Sr Si and Silica		353.2 Nitrate/Nitrite NOX (pres)		5310C Total Organic Carbon		2320B Alkalinity, Total, Carb, Bicarb		9315_Ra226 Radium 226		9320_Ra228 Radium 228		Combined RAD		2540 Total Suspended Solids		Total Number of Containers		Preservation Codes:							
City: Birmingham				TAT Requested (days):																												A - HCL				M - Hexane			
State, Zip: AL, 35243				PO #:																												B - NaOH				N - None			
Phone: 205-992-6283				WO #:																												C - Zn Acetate				O - AsNaO2			
Email: SCS Contacts				Project #: 18020186																												D - Nitric Acid				P - Na2O4S			
Project Name: Plant Watson				SSOW#:		E - NaHSO4				Q - Na2SO3																													
Site: Ash Pond						F - MeOH				R - Na2S2O3																													
						G - Amchlor				S - H2SO4																													
						H - Ascorbic Acid				T - TSP Dodecahydrate																													
						I - Ice				U - Acetone																													
						J - DI Water				V - MCAA																													
						K - EDTA				W - pH 4-5																													
						L - EDA				Z - other (specify)																													
						Other:																																	
Sample Identification				Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Preservation Code:		Special Instructions/Note:																									
APMW-12										GW				Lot #2 For Bottles ARE on Bottle order # 15213																									
APMW-13				4-7-22		1314		G		GW																													
APMW-14				4-7-22		1225		G		GW																													
APMW-15				4-7-22		1043		G		GW																													
APMW-16				4-7-22		0943		G		GW																													
APMW-2D										GW																													
APMW-3D										GW																													
APMW-4D										GW																													
APMW-5D				4-6-22		1325		G		GW																													
APMW-6D				4-7-22		0810		G		GW																													
APMW-8D				4-6-22		1230		G		GW																													
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																																	
<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						<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)						Special Instructions/QC Requirements:																																	
Empty Kit Relinquished by:				Date:		Time:		Method of Shipment:																															
Relinquished by: <u>[Signature]</u>				Date/Time: 4-7-22 1530		Company: <u>RDH EM</u>		Received by: <u>D Watson</u>		Date/Time: 4-8-22 900		Company: <u>TESTA/TT</u>																											
Relinquished by:				Date/Time:		Company:		Received by:		Date/Time:		Company:																											
Relinquished by:				Date/Time:		Company:		Received by:		Date/Time:		Company:																											
Custody Seals Intact:		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:																																			
Yes No																																							

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
 Pittsburgh, PA 15238
 Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

Client Information		Sampler: <i>Brown Hydrant/Colton Evans</i>		Lab PM: Brown, Shali		Carrier Tracking No(s):		COC No:																		
Client Contact:		Phone: <i>850-336-0192</i>		E-Mail: shali.brown@eurofinset.com				Page: <i>182</i>																		
SCS Contacts								Job #: <i>182</i>																		
Company: SCS				Analysis Requested						Preservation Codes:																
Address: 3535 Colonnade Pkwy Bin S 530 EC				Due Date Requested:		<table border="1"> <tr><td>2540C Total Dissolved Solids</td></tr> <tr><td>300_28Day Chloride Fluoride Sulfate Bromide</td></tr> <tr><td>6020B/7470 Custom 23 (AppII/AppIV+9) + Mercury</td></tr> <tr><td>+ Fe Mg Na Al Mn K Sr Si and Silica</td></tr> <tr><td>353.2 Nitrate/Nitrite NOX (pres)</td></tr> <tr><td>5310C Total Organic Carbon</td></tr> <tr><td>2320B Alkalinity, Total, Carb, Bicarb</td></tr> <tr><td>9315_Ra226 Radium 226</td></tr> <tr><td>9320_Ra228 Radium 228</td></tr> <tr><td>Combined RAD</td></tr> <tr><td>2540 Total Suspended Solids</td></tr> </table>						2540C Total Dissolved Solids	300_28Day Chloride Fluoride Sulfate Bromide	6020B/7470 Custom 23 (AppII/AppIV+9) + Mercury	+ Fe Mg Na Al Mn K Sr Si and Silica	353.2 Nitrate/Nitrite NOX (pres)	5310C Total Organic Carbon	2320B Alkalinity, Total, Carb, Bicarb	9315_Ra226 Radium 226	9320_Ra228 Radium 228	Combined RAD	2540 Total Suspended Solids	A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
2540C Total Dissolved Solids																										
300_28Day Chloride Fluoride Sulfate Bromide																										
6020B/7470 Custom 23 (AppII/AppIV+9) + Mercury																										
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9315_Ra226 Radium 226																										
9320_Ra228 Radium 228																										
Combined RAD																										
2540 Total Suspended Solids																										
City: Birmingham				TAT Requested (days):		Field Filtered Sample (Yes or No) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Total Number of containers																		
State, Zip: AL, 35243				PO #:																						
Phone: 205-992-6283				WO #:																						
Email:				Project #:																						
Project Name: Plant Watson				SSOW#:																						
Site: Ash Pond																										
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)	2540C Total Dissolved Solids	300_28Day Chloride Fluoride Sulfate Bromide	6020B/7470 Custom 23 (AppII/AppIV+9) + Mercury	+ Fe Mg Na Al Mn K Sr Si and Silica	353.2 Nitrate/Nitrite NOX (pres)	5310C Total Organic Carbon	2320B Alkalinity, Total, Carb, Bicarb	9315_Ra226 Radium 226	9320_Ra228 Radium 228	Combined RAD	2540 Total Suspended Solids	Total Number of containers	Special Instructions/Note:							
				Preservation Code:																						
APMW-TR PZ-4		4-6-22	1745	G	GW		X	X	X	X	X	X	X	X	X	X			Lot #s For BOTTLES AREGON							
APMW-2 EB-02		4-7-22	0858	G	DISCH WASTE		X	X	X	X	X	X	X	X	X	X			Bottle order # 15213							
APMW-3 FB-02		4-7-22	0815	G	DISCH WASTE		X	X	X	X	X	X	X	X	X	X										
APMW-4		4-6-22	0902	G	GW		X	X	X	X	X	X	X	X	X	X										
APMW-5		4-6-22	1450	G	GW		X	X	X	X	X	X	X	X	X	X										
APMW-6R		4-7-22	1047	G	GW		X	X	X	X	X	X	X	X	X	X										
APMW-7		4-6-22	1515	G	GW		X	X	X	X	X	X	X	X	X	X										
APMW-8		4-6-22	1036	G	GW		X	X	X	X	X	X	X	X	X	X										
APMW-9		4-6-22	0831	G	GW		X	X	X	X	X	X	X	X	X	X										
APMW-10 Dup-03		4-6-22	1415	G	GW		X	X	X	X	X	X	X	X	X	X										
APMW-11 Dup-04		4-7-22	0710	G	GW		X	X	X	X	X	X	X	X	X	X										
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained for)						180-136424 Chain of Custody 														
<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						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For																				
Deliverable Requested: I, II, III, IV, Other (specify)						Special Instructions/QC Requirements:																				
Empty Kit Relinquished by:				Date:		Time:		Method of Shipment:																		
Relinquished by: <i>[Signature]</i>				Date/Time: 4-7-22 1530		Company: RSH ENV.		Received by: <i>[Signature]</i>		Date/Time: 4-8-22 900		Company: RETAP														
Relinquished by:				Date/Time:		Company:		Received by:		Date/Time:		Company:														
Relinquished by:				Date/Time:		Company:		Received by:		Date/Time:		Company:														
Custody Seals Intact:		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:																						
Δ Yes Δ No																										

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

Client Information				Sampler: <u>Rick Henderson / Colleen Krev...</u>		Lab PM: Brown, Shali		Carrier Tracking No(s):		COC No:			
Client Contact: SCS Contacts				Phone: <u>850 336 0192</u>		E-Mail: shali.brown@eurofinset.com				Page: <u>2 of 2</u>			
Company: SCS				Analysis Requested								Job #:	
Address: 3535 Colonnade Pkwy Bin S 530 EC				Due Date Requested:		Field Filtered Sample (Yes or No) 2540C Total Dissolved Solids 300_28Day Chloride Fluoride Sulfate Bromide 6020B/7470 Custom 23 (Appl/ ApplV-9) + Mercury + Fe Mg Na Al Mn K Sr Si and Silica 353.2 Nitrate/Nitrite NOX (pres) 5310C Total Organic Carbon 2320B Alkalinity, Total, Carb, Bicarb 9315_Ra226 Radium 226 9320_Ra228 Radium 228 Combined RAD 2540 Total Suspended Solids		Total Number of Containers Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)		Other:			
City: Birmingham				TAT Requested (days):									
State, Zip: AL, 35243				PO #:									
Phone: 205-992-6283				WO #:									
Email: SCS Contacts				Project #: 18020186									
Project Name: Plant Watson				SSOW#:									
Site: Ash Pond													
Sample Identification				Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)			
										Preservation Code:			
APMW-12										X X X X X X X X X X			
APMW-13				4-7-22		1314 G		GW		X X X X X X X X X X			
APMW-14				4-7-22		1225 G		GW		X X X X X X X X X X			
APMW-15				4-7-22		1043 G		GW		X X X X X X X X X X			
APMW-16				4-7-22		0943 G		GW		X X X X X X X X X X			
APMW-2D								GW		X X X X X X X X X X			
APMW-3D								GW		X X X X X X X X X X			
APMW-4D								GW		X X X X X X X X X X			
APMW-5D				4-6-22		1325 G		GW		X X X X X X X X X X			
APMW-6D				4-7-22		0810 G		GW		X X X X X X X X X X			
APMW-8D				4-6-22		1230 G		GW		X X X X X X X X X X			
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
<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						<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)						Special Instructions/QC Requirements:							
Empty Kit Relinquished by:				Date:		Time:		Method of Shipment:					
Relinquished by: <u>[Signature]</u>				Date/Time: 4-7-22 1530		Company: <u>RDH EM</u>		Received by: <u>D Watson</u>		Date/Time: 4-8-22 900		Company: <u>TESTA/TT</u>	
Relinquished by:				Date/Time:		Company:		Received by:		Date/Time:		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:							

Do not lift using this tag. Do not lift using this tag.



ORIGIN ID: BIXA (412) 963-7058

TESTAMERICA PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP OF 180-136424 Waybill

ACTWGT:
CAD: 695
DIMS: 24x13x14 IN

BILL THIRD PARTY

(412) 963-7058

PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07APR22
ACTWGT: 60.70 LB
CAD: 6953799/SSFE2300
DIMS: 24x13x14 IN

BILL THIRD PARTY

Part # 156297-435 RRDB EXP 11/22

TO EURO FINS
SHALI BROWN
301 ALPHA DRIVE

PITTSBURGH PA 15238

(412) 963-7058

REF:

DEPT:

Uncorrected temp 4.3 °C
Thermometer ID 16
CF -0.4 Initials AS
PT-WI-SR-001 effective 11/8/18

FedEx Express



REL# 3785346

5 of 5

MPS# 2717 8302 9584
0263

Mstr# 2717 8302 9540

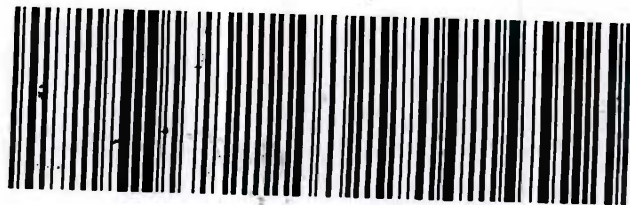
0201

FRI - 08 APR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238

PA-US PIT



RT 98

1 10:30

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FZ

9584
04.08

TO EURO FINS
SHALI BROWN
301 ALPHA DRIVE

PITTSBURGH PA 15238

(412) 963-7058

REF:

DEPT:

Uncorrected temp 4.7 °C
Thermometer ID 16
CF -0.4 Initials AS
PT-WI-SR-001 effective 11/8/18

FedEx Express



REL# 3785346

3 of 5

MPS# 2717 8302 9562
0263

Mstr# 2717 8302 9540

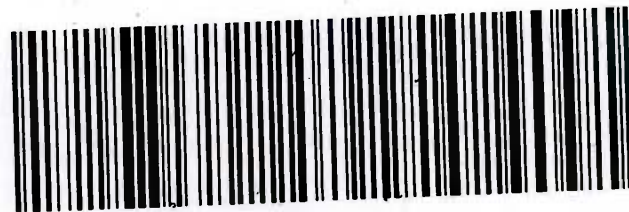
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FRI - 08 APR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238

PA-US PIT



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9562
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Do not lift using this tag.

ORIGIN ID: BIKR (412) 969-7058
 TEST AMERICA BEFORE BILL
 SEE CHECK OR PA 15238
 301 ALBUQUERQUE, US
 UNITED STATES

TO EURO FINS
 SHALL BROWN
 301 ALPHA DRIVE
 PITTSBURGH PA 15238

SHIP DATE: 07APR22
 SHIP WT: 6.0 LB
 ACT WT: 6.997 LB / 31.4 IN
 CMO: 24X13X14
 BILL THIRD PARTY

Part # 156297-435 RDB EXP 11/22

(412) 969-7058



Uncorrected temp 5.0 C
 Thermometer ID 16
 Initials LS
 CF -4.4

PT-3M-SR-001 effective 11/18/18



REL# 3785246

FRI - 08 APR 10:30A
 PRIORITY OVERNIGHT

15238
 PIT

PA-US

0201

4 of 6
 8302 9573

MPS# 2717 8302 9540
 Metr# 2717 8302 9540

XN AGCA



98
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Do not lift using this tag.

ORIGIN ID: BIXA (412) 963-7058

TESTAMERICA PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07APR22
ACTWGT: 60.70 LB
CAD: 6993799/SSFE2300
DIMS: 24x13x14 IN

BILL THIRD PARTY

TO EURO FINS
SHALI BROWN
301 ALPHA DRIVE

PITTSBURGH PA 15238

(412) 963-7058

THU: PO: REF: DEPT:

Uncorrected temp 5.8 °C
Thermometer ID 16

CF -0.4 Initials AS

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

FedEx Express



REL# 3785346

2 of 5

MPS# 2717 8302 9551
0263

Mstr# 2717 8302 9540 0201

XN AGCA

FRI - 08 APR 10:30A
PRIORITY OVERNIGHT

15238

PA-US PIT



RT 98
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Do not lift using this tag.

ORIGIN ID: BIXA (412) 963-7058

TESTAMERICA PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07APR22
ACTWGT: 60.70 LB
CAD: 6993799/SSFE2300
DIMS: 24x13x14 IN

BILL THIRD PARTY

TO EURO FINS
SHALI BROWN
301 ALPHA DRIVE

PITTSBURGH PA 15238

(412) 963-7058

THU: PO: REF: DEPT:



Uncorrected temp 5.1 °C
Thermometer ID 16

CF -0.4 Initials AS

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

FedEx Express



REL# 3785346

1 of 5

TRK# 2717 8302 9540
0201

MASTER

XN AGCA

FRI - 08 APR 10:30A
PRIORITY OVERNIGHT

15238

PA-US PIT



RT 98
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Part # 156297-435 RRDB EXP 11/22



Do not lift using this tag. Do not lift using this tag.



ORIGIN ID: BIXA (412) 963-7058

TESTAMERICA PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP OF 180-136424 Waybill

ACTWGT:
CAD: 6953799/SSFE2300
DIMS: 24x13x14 IN

BILL THIRD PARTY

(412) 963-7058

PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07APR22
ACTWGT: 60.70 LB
CAD: 6953799/SSFE2300
DIMS: 24x13x14 IN

BILL THIRD PARTY

Part # 156297-435 RRDB EXP 11/22

TO EURO FINS
SHALI BROWN
301 ALPHA DRIVE

PITTSBURGH PA 15238

(412) 963-7058

REF:

DEPT:



Uncorrected temp 4.3 °C
Thermometer ID 16

CF -0.4 Initials AS

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

FedEx
Express



REL#
3785346

5 of 5

MPS# 2717 8302 9584
0263

Mstr# 2717 8302 9540

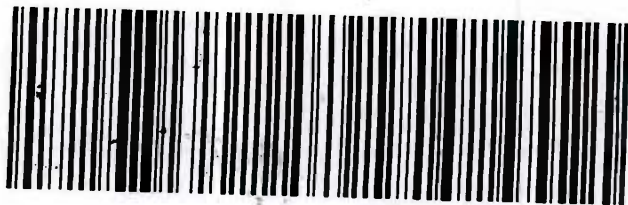
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FRI - 08 APR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238

PA-US PIT



RT 98

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TO EURO FINS
SHALI BROWN
301 ALPHA DRIVE

PITTSBURGH PA 15238

(412) 963-7058

REF:

DEPT:



Uncorrected temp 4.7 °C
Thermometer ID 16

CF -0.4 Initials AS

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

FedEx
Express



REL#
3785346

3 of 5

MPS# 2717 8302 9562
0263

Mstr# 2717 8302 9540

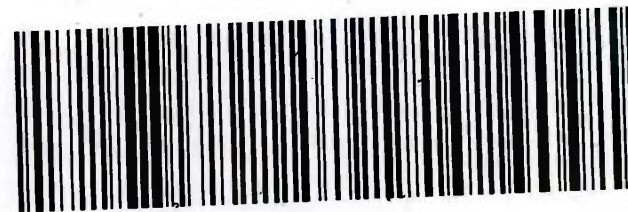
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FRI - 08 APR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238

PA-US PIT



RT 98

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Do not lift using this tag.

ORIGIN ID: BIKR (412) 969-7058
 TEST AMERICA BEFORE BILL
 SEE CHECK OR PA 15238
 301 ALPHABURGH, PA
 PITTSBURGH, PA 15238
 UNITED STATES US

TO EURO FINS
 SHALL BROWN
 SHALL ALPHA DRIVE
 301 ALPHA DRIVE
 PITTSBURGH PA 15238

SHIP DATE: 07APR22
 SHIP WT: 6.0 LB
 ACT WT: 6.99 LB / 3.14 IN
 CADD: 24X13X14
 BILL THIRD PARTY

Part # 156297-435 RDB EXP 11/22

(412) 969-7058



Uncorrected temp 5.0 °C
 Thermometer ID 16
 Initials LS
 CF -4.4

PT-3M-SR-001 effective 11/18/18

FRI - 08 APR 10:30A
 PRIORITY OVERNIGHT

15238
 PIT

PA-US

4 of 6
 MPS# 27117 8302 9573
 0263
 Mstr# 27117 8302 9540
XN AGCA



98
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 10:30
 9573
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 A

Do not lift using this tag.

ORIGIN ID: BIXA (412) 963-7058

TESTAMERICA PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07APR22
ACTWGT: 60.70 LB
CAD: 6993799/SSFE2300
DIMS: 24x13x14 IN

BILL THIRD PARTY

TO EURO FINS
SHALI BROWN
301 ALPHA DRIVE

PITTSBURGH PA 15238

(412) 963-7058

THU: PO: REF: DEPT:

Uncorrected temp 5.8 °C
Thermometer ID 16

CF -0.4 Initials AS

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

FedEx Express



REL# 3785346

2 of 5

MPS# 2717 8302 9551
0263

Mstr# 2717 8302 9540

0201

XN AGCA

FRI - 08 APR 10:30A
PRIORITY OVERNIGHT

15238

PA-US PIT



RT 98
FZ
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9551
04.08

Do not lift using this tag.

ORIGIN ID: BIXA (412) 963-7058

TESTAMERICA PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07APR22
ACTWGT: 60.70 LB
CAD: 6993799/SSFE2300
DIMS: 24x13x14 IN

BILL THIRD PARTY

TO EURO FINS
SHALI BROWN
301 ALPHA DRIVE

PITTSBURGH PA 15238

(412) 963-7058

THU: PO: REF: DEPT:

Uncorrected temp 5.1 °C
Thermometer ID 16

CF -0.4 Initials AS

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

FedEx Express



REL# 3785346

1 of 5

TRK# 2717 8302 9540
0201

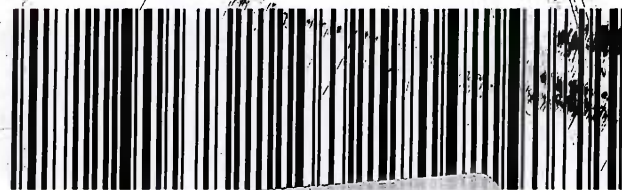
MASTER

XN AGCA

FRI - 08 APR 10:30A
PRIORITY OVERNIGHT

15238

PA-US PIT



RT 98
FZ
1 10:30 A
9540
04.08

Part # 156297-435 RROB EXP 11/22

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-136424-1

Login Number: 136424

List Number: 1

Creator: Watson, Debbie

List Source: Eurofins Pittsburgh

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	



ANALYTICAL REPORT

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-136424-2
Client Project/Site: Plant Watson Ash Pond

For:
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Robert Singleton



Authorized for release by:
5/11/2022 4:31:47 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@et.eurofinsus.com

LINKS

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results through
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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



Table of Contents

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Case Narrative

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-2

Job ID: 180-136424-2

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-136424-2

Receipt

The samples were received on 4/8/2022 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 3.9°C, 4.3°C, 4.6°C, 4.7°C and 5.4°C

Gas Flow Proportional Counter

Method 9315_Ra226: Radium-226 batch 560248 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. PZ-4 (180-136424-1), EB-02 (180-136424-2), FB-02 (180-136424-3), APMW-4 (180-136424-4), APMW-5 (180-136424-5), APMW-6R (180-136424-6), APMW-7 (180-136424-7), APMW-8 (180-136424-8), APMW-9 (180-136424-9), DUP-03 (180-136424-10), DUP-04 (180-136424-11), APMW-13 (180-136424-12), APMW-14 (180-136424-13), APMW-15 (180-136424-14), APMW-16 (180-136424-15), APMW-5D (180-136424-16), APMW-6D (180-136424-17), APMW-8D (180-136424-18), (LCS 160-560248/1-A), (LCSD 160-560248/2-A) and (MB 160-560248/21-A)

Method 9320_Ra228: Radium-228 Batch 560259 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. PZ-4 (180-136424-1), EB-02 (180-136424-2), FB-02 (180-136424-3), APMW-4 (180-136424-4), APMW-5 (180-136424-5), APMW-6R (180-136424-6), APMW-7 (180-136424-7), APMW-8 (180-136424-8), APMW-9 (180-136424-9), DUP-03 (180-136424-10), DUP-04 (180-136424-11), APMW-13 (180-136424-12), APMW-14 (180-136424-13), APMW-15 (180-136424-14), APMW-16 (180-136424-15), APMW-5D (180-136424-16), APMW-6D (180-136424-17), APMW-8D (180-136424-18), (LCS 160-560259/1-A), (LCSD 160-560259/2-A) and (MB 160-560259/21-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 Watson Ash Pond

Job ID: 180-136424-2

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 Watson Ash Pond

Job ID: 180-136424-2

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	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	07-01-22
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-23
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	NELAP	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

Sample Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-136424-1	PZ-4	Water	04/06/22 17:45	04/08/22 09:00
180-136424-2	EB-02	Water	04/07/22 08:58	04/08/22 09:00
180-136424-3	FB-02	Water	04/07/22 08:15	04/08/22 09:00
180-136424-4	APMW-4	Water	04/06/22 09:02	04/08/22 09:00
180-136424-5	APMW-5	Water	04/06/22 14:50	04/08/22 09:00
180-136424-6	APMW-6R	Water	04/07/22 10:47	04/08/22 09:00
180-136424-7	APMW-7	Water	04/06/22 15:15	04/08/22 09:00
180-136424-8	APMW-8	Water	04/06/22 10:36	04/08/22 09:00
180-136424-9	APMW-9	Water	04/06/22 08:31	04/08/22 09:00
180-136424-10	DUP-03	Water	04/06/22 14:15	04/08/22 09:00
180-136424-11	DUP-04	Water	04/07/22 07:10	04/08/22 09:00
180-136424-12	APMW-13	Water	04/07/22 13:14	04/08/22 09:00
180-136424-13	APMW-14	Water	04/07/22 12:25	04/08/22 09:00
180-136424-14	APMW-15	Water	04/07/22 10:43	04/08/22 09:00
180-136424-15	APMW-16	Water	04/07/22 09:43	04/08/22 09:00
180-136424-16	APMW-5D	Water	04/06/22 13:25	04/08/22 09:00
180-136424-17	APMW-6D	Water	04/07/22 08:10	04/08/22 09:00
180-136424-18	APMW-8D	Water	04/06/22 12:30	04/08/22 09:00



Method Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-2

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

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

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-2

Client Sample ID: PZ-4

Lab Sample ID: 180-136424-1

Date Collected: 04/06/22 17:45

Matrix: Water

Date Received: 04/08/22 09:00

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			746.56 mL	1.0 g	560248	04/14/22 09:44	HRT	TAL SL
Total/NA	Analysis	9315		1			564353	05/07/22 19:45	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			746.56 mL	1.0 g	560259	04/14/22 10:03	HRT	TAL SL
Total/NA	Analysis	9320		1			563913	05/05/22 12:52	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			564888	05/10/22 23:15	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-02

Lab Sample ID: 180-136424-2

Date Collected: 04/07/22 08:58

Matrix: Water

Date Received: 04/08/22 09:00

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			746.00 mL	1.0 g	560248	04/14/22 09:44	HRT	TAL SL
Total/NA	Analysis	9315		1			564353	05/07/22 19:45	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			746.00 mL	1.0 g	560259	04/14/22 10:04	HRT	TAL SL
Total/NA	Analysis	9320		1			563913	05/05/22 12:53	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			564888	05/10/22 23:15	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-02

Lab Sample ID: 180-136424-3

Date Collected: 04/07/22 08:15

Matrix: Water

Date Received: 04/08/22 09:00

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			742.93 mL	1.0 g	560248	04/14/22 09:44	HRT	TAL SL
Total/NA	Analysis	9315		1			564353	05/07/22 19:45	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			742.93 mL	1.0 g	560259	04/14/22 10:04	HRT	TAL SL
Total/NA	Analysis	9320		1			563913	05/05/22 12:53	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			564888	05/10/22 23:15	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-4

Lab Sample ID: 180-136424-4

Date Collected: 04/06/22 09:02

Matrix: Water

Date Received: 04/08/22 09:00

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			759.71 mL	1.0 g	560248	04/14/22 09:44	HRT	TAL SL
Total/NA	Analysis	9315		1			564354	05/08/22 15:39	FLC	TAL SL
Instrument ID: GFPCPURPLE										

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-2

Client Sample ID: APMW-4
Date Collected: 04/06/22 09:02
Date Received: 04/08/22 09:00

Lab Sample ID: 180-136424-4
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			759.71 mL	1.0 g	560259	04/14/22 10:04	HRT	TAL SL
Total/NA	Analysis	9320		1			563913	05/05/22 12:54	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			564888	05/10/22 23:15	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-5
Date Collected: 04/06/22 14:50
Date Received: 04/08/22 09:00

Lab Sample ID: 180-136424-5
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			759.27 mL	1.0 g	560248	04/14/22 09:44	HRT	TAL SL
Total/NA	Analysis	9315		1			564354	05/08/22 17:52	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			759.27 mL	1.0 g	560259	04/14/22 10:04	HRT	TAL SL
Total/NA	Analysis	9320		1			563913	05/05/22 12:54	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			564888	05/10/22 23:15	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-6R
Date Collected: 04/07/22 10:47
Date Received: 04/08/22 09:00

Lab Sample ID: 180-136424-6
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			760.13 mL	1.0 g	560248	04/14/22 09:44	HRT	TAL SL
Total/NA	Analysis	9315		1			564566	05/09/22 10:12	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			760.13 mL	1.0 g	560259	04/14/22 10:04	HRT	TAL SL
Total/NA	Analysis	9320		1			563913	05/05/22 12:54	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			564888	05/10/22 23:15	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-7
Date Collected: 04/06/22 15:15
Date Received: 04/08/22 09:00

Lab Sample ID: 180-136424-7
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			753.01 mL	1.0 g	560248	04/14/22 09:44	HRT	TAL SL
Total/NA	Analysis	9315		1			564566	05/09/22 10:13	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			753.01 mL	1.0 g	560259	04/14/22 10:04	HRT	TAL SL
Total/NA	Analysis	9320		1			563913	05/05/22 12:54	SCB	TAL SL
Instrument ID: GFPCRED										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-2

Client Sample ID: APMW-7
Date Collected: 04/06/22 15:15
Date Received: 04/08/22 09:00

Lab Sample ID: 180-136424-7
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			564888	05/10/22 23:15	SCB	TAL SL

Client Sample ID: APMW-8
Date Collected: 04/06/22 10:36
Date Received: 04/08/22 09:00

Lab Sample ID: 180-136424-8
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			754.34 mL	1.0 g	560248	04/14/22 09:44	HRT	TAL SL
Total/NA	Analysis	9315		1			564566	05/09/22 10:13	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			754.34 mL	1.0 g	560259	04/14/22 10:04	HRT	TAL SL
Total/NA	Analysis	9320		1			563913	05/05/22 12:54	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			564888	05/10/22 23:15	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-9
Date Collected: 04/06/22 08:31
Date Received: 04/08/22 09:00

Lab Sample ID: 180-136424-9
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			761.13 mL	1.0 g	560248	04/14/22 09:44	HRT	TAL SL
Total/NA	Analysis	9315		1			564565	05/09/22 10:13	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			761.13 mL	1.0 g	560259	04/14/22 10:04	HRT	TAL SL
Total/NA	Analysis	9320		1			563908	05/05/22 12:50	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			564888	05/10/22 23:15	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-03
Date Collected: 04/06/22 14:15
Date Received: 04/08/22 09:00

Lab Sample ID: 180-136424-10
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			748.04 mL	1.0 g	560248	04/14/22 09:44	HRT	TAL SL
Total/NA	Analysis	9315		1			564565	05/09/22 10:14	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			748.04 mL	1.0 g	560259	04/14/22 10:04	HRT	TAL SL
Total/NA	Analysis	9320		1			563908	05/05/22 13:05	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			564888	05/10/22 23:15	SCB	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-2

Client Sample ID: DUP-04
Date Collected: 04/07/22 07:10
Date Received: 04/08/22 09:00

Lab Sample ID: 180-136424-11
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			743.77 mL	1.0 g	560248	04/14/22 09:44	HRT	TAL SL
Total/NA	Analysis	9315		1			564565	05/09/22 10:14	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			743.77 mL	1.0 g	560259	04/14/22 10:04	HRT	TAL SL
Total/NA	Analysis	9320		1			563908	05/05/22 14:11	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			564888	05/10/22 23:15	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-13
Date Collected: 04/07/22 13:14
Date Received: 04/08/22 09:00

Lab Sample ID: 180-136424-12
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			746.97 mL	1.0 g	560248	04/14/22 09:44	HRT	TAL SL
Total/NA	Analysis	9315		1			564564	05/09/22 10:15	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			746.97 mL	1.0 g	560259	04/14/22 10:04	HRT	TAL SL
Total/NA	Analysis	9320		1			563908	05/05/22 14:11	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			564888	05/10/22 23:15	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-14
Date Collected: 04/07/22 12:25
Date Received: 04/08/22 09:00

Lab Sample ID: 180-136424-13
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			763.30 mL	1.0 g	560248	04/14/22 09:44	HRT	TAL SL
Total/NA	Analysis	9315		1			564564	05/09/22 10:15	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			763.30 mL	1.0 g	560259	04/14/22 10:04	HRT	TAL SL
Total/NA	Analysis	9320		1			563908	05/05/22 12:50	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			564888	05/10/22 23:15	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-15
Date Collected: 04/07/22 10:43
Date Received: 04/08/22 09:00

Lab Sample ID: 180-136424-14
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			752.20 mL	1.0 g	560248	04/14/22 09:44	HRT	TAL SL
Total/NA	Analysis	9315		1			564564	05/09/22 10:15	CLP	TAL SL
Instrument ID: GFPCRED										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-2

Client Sample ID: APMW-15

Date Collected: 04/07/22 10:43

Date Received: 04/08/22 09:00

Lab Sample ID: 180-136424-14

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			752.20 mL	1.0 g	560259	04/14/22 10:04	HRT	TAL SL
Total/NA	Analysis	9320		1			563908	05/05/22 12:51	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			564888	05/10/22 23:15	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-16

Date Collected: 04/07/22 09:43

Date Received: 04/08/22 09:00

Lab Sample ID: 180-136424-15

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			741.58 mL	1.0 g	560248	04/14/22 09:44	HRT	TAL SL
Total/NA	Analysis	9315		1			564564	05/09/22 10:16	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			741.58 mL	1.0 g	560259	04/14/22 10:04	HRT	TAL SL
Total/NA	Analysis	9320		1			563908	05/05/22 13:03	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			564888	05/10/22 23:15	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-5D

Date Collected: 04/06/22 13:25

Date Received: 04/08/22 09:00

Lab Sample ID: 180-136424-16

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			748.89 mL	1.0 g	560248	04/14/22 09:44	HRT	TAL SL
Total/NA	Analysis	9315		1			564564	05/09/22 10:16	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			748.89 mL	1.0 g	560259	04/14/22 10:04	HRT	TAL SL
Total/NA	Analysis	9320		1			563908	05/05/22 13:03	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			564888	05/10/22 23:15	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-6D

Date Collected: 04/07/22 08:10

Date Received: 04/08/22 09:00

Lab Sample ID: 180-136424-17

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			748.42 mL	1.0 g	560248	04/14/22 09:44	HRT	TAL SL
Total/NA	Analysis	9315		1			564565	05/09/22 12:22	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			748.42 mL	1.0 g	560259	04/14/22 10:04	HRT	TAL SL
Total/NA	Analysis	9320		1			563908	05/05/22 12:51	FLC	TAL SL
Instrument ID: GFPCORANGE										

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-2

Client Sample ID: APMW-6D
Date Collected: 04/07/22 08:10
Date Received: 04/08/22 09:00

Lab Sample ID: 180-136424-17
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			564888	05/10/22 23:15	SCB	TAL SL

Client Sample ID: APMW-8D
Date Collected: 04/06/22 12:30
Date Received: 04/08/22 09:00

Lab Sample ID: 180-136424-18
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			745.70 mL	1.0 g	560248	04/14/22 09:44	HRT	TAL SL
Total/NA	Analysis	9315		1			564565	05/09/22 12:22	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			745.70 mL	1.0 g	560259	04/14/22 10:04	HRT	TAL SL
Total/NA	Analysis	9320		1			563908	05/05/22 12:51	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			564888	05/10/22 23:15	SCB	TAL SL
Instrument ID: NOEQUIP										

Laboratory References:

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

Analyst References:

Lab: TAL SL

Batch Type: Prep

HRT = Hannah Tomasovic

Batch Type: Analysis

CLP = Cassandra Park

FLC = Fernando Cruz

SCB = Sarah Bernsen

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-2

Client Sample ID: PZ-4

Lab Sample ID: 180-136424-1

Date Collected: 04/06/22 17:45

Matrix: Water

Date Received: 04/08/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.705		0.264	0.272	1.00	0.292	pCi/L	04/14/22 09:44	05/07/22 19:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.9		40 - 110					04/14/22 09:44	05/07/22 19:45	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.70		0.517	0.573	1.00	0.544	pCi/L	04/14/22 10:03	05/05/22 12:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.9		40 - 110					04/14/22 10:03	05/05/22 12:52	1
Y Carrier	86.0		40 - 110					04/14/22 10:03	05/05/22 12:52	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	3.40		0.581	0.634	5.00	0.544	pCi/L		05/10/22 23:15	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-2

Client Sample ID: EB-02
 Date Collected: 04/07/22 08:58
 Date Received: 04/08/22 09:00

Lab Sample ID: 180-136424-2
 Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0462	U	0.0984	0.0985	1.00	0.230	pCi/L	04/14/22 09:44	05/07/22 19:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					04/14/22 09:44	05/07/22 19:45	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.311	U	0.295	0.297	1.00	0.476	pCi/L	04/14/22 10:04	05/05/22 12:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					04/14/22 10:04	05/05/22 12:53	1
Y Carrier	86.0		40 - 110					04/14/22 10:04	05/05/22 12:53	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.265	U	0.311	0.313	5.00	0.476	pCi/L		05/10/22 23:15	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-2

Client Sample ID: FB-02

Lab Sample ID: 180-136424-3

Date Collected: 04/07/22 08:15

Matrix: Water

Date Received: 04/08/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0125	U	0.118	0.118	1.00	0.246	pCi/L	04/14/22 09:44	05/07/22 19:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		40 - 110					04/14/22 09:44	05/07/22 19:45	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.159	U	0.262	0.263	1.00	0.445	pCi/L	04/14/22 10:04	05/05/22 12:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		40 - 110					04/14/22 10:04	05/05/22 12:53	1
Y Carrier	87.9		40 - 110					04/14/22 10:04	05/05/22 12:53	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.146	U	0.287	0.288	5.00	0.445	pCi/L		05/10/22 23:15	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-2

Client Sample ID: APMW-4

Lab Sample ID: 180-136424-4

Date Collected: 04/06/22 09:02

Matrix: Water

Date Received: 04/08/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.499		0.237	0.241	1.00	0.293	pCi/L	04/14/22 09:44	05/08/22 15:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.2		40 - 110					04/14/22 09:44	05/08/22 15:39	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.21		0.489	0.501	1.00	0.686	pCi/L	04/14/22 10:04	05/05/22 12:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.2		40 - 110					04/14/22 10:04	05/05/22 12:54	1
Y Carrier	84.1		40 - 110					04/14/22 10:04	05/05/22 12:54	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.71		0.543	0.556	5.00	0.686	pCi/L		05/10/22 23:15	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-2

Client Sample ID: APMW-5

Lab Sample ID: 180-136424-5

Date Collected: 04/06/22 14:50

Matrix: Water

Date Received: 04/08/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.425		0.193	0.196	1.00	0.233	pCi/L	04/14/22 09:44	05/08/22 17:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.1		40 - 110					04/14/22 09:44	05/08/22 17:52	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	4.66		0.603	0.740	1.00	0.508	pCi/L	04/14/22 10:04	05/05/22 12:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.1		40 - 110					04/14/22 10:04	05/05/22 12:54	1
Y Carrier	83.7		40 - 110					04/14/22 10:04	05/05/22 12:54	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	5.09		0.633	0.766	5.00	0.508	pCi/L		05/10/22 23:15	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-2

Client Sample ID: APMW-6R

Lab Sample ID: 180-136424-6

Date Collected: 04/07/22 10:47

Matrix: Water

Date Received: 04/08/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.421		0.194	0.198	1.00	0.240	pCi/L	04/14/22 09:44	05/09/22 10:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.5		40 - 110					04/14/22 09:44	05/09/22 10:12	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.70		0.465	0.527	1.00	0.439	pCi/L	04/14/22 10:04	05/05/22 12:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.5		40 - 110					04/14/22 10:04	05/05/22 12:54	1
Y Carrier	85.2		40 - 110					04/14/22 10:04	05/05/22 12:54	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	3.12		0.504	0.563	5.00	0.439	pCi/L		05/10/22 23:15	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-2

Client Sample ID: APMW-7
 Date Collected: 04/06/22 15:15
 Date Received: 04/08/22 09:00

Lab Sample ID: 180-136424-7
 Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	2.05		0.331	0.379	1.00	0.194	pCi/L	04/14/22 09:44	05/09/22 10:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.8		40 - 110					04/14/22 09:44	05/09/22 10:13	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	4.10		0.567	0.681	1.00	0.493	pCi/L	04/14/22 10:04	05/05/22 12:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.8		40 - 110					04/14/22 10:04	05/05/22 12:54	1
Y Carrier	80.7		40 - 110					04/14/22 10:04	05/05/22 12:54	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	6.15		0.657	0.779	5.00	0.493	pCi/L		05/10/22 23:15	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-2

Client Sample ID: APMW-8

Lab Sample ID: 180-136424-8

Date Collected: 04/06/22 10:36

Matrix: Water

Date Received: 04/08/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.963		0.268	0.282	1.00	0.278	pCi/L	04/14/22 09:44	05/09/22 10:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		40 - 110					04/14/22 09:44	05/09/22 10:13	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.30		0.577	0.653	1.00	0.602	pCi/L	04/14/22 10:04	05/05/22 12:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		40 - 110					04/14/22 10:04	05/05/22 12:54	1
Y Carrier	78.5		40 - 110					04/14/22 10:04	05/05/22 12:54	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	4.27		0.636	0.711	5.00	0.602	pCi/L		05/10/22 23:15	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-2

Client Sample ID: APMW-9

Lab Sample ID: 180-136424-9

Date Collected: 04/06/22 08:31

Matrix: Water

Date Received: 04/08/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	2.45		0.374	0.434	1.00	0.200	pCi/L	04/14/22 09:44	05/09/22 10:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.1		40 - 110					04/14/22 09:44	05/09/22 10:13	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	4.48		0.591	0.721	1.00	0.512	pCi/L	04/14/22 10:04	05/05/22 12:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.1		40 - 110					04/14/22 10:04	05/05/22 12:50	1
Y Carrier	84.1		40 - 110					04/14/22 10:04	05/05/22 12:50	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	6.93		0.699	0.842	5.00	0.512	pCi/L		05/10/22 23:15	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-2

Client Sample ID: DUP-03
 Date Collected: 04/06/22 14:15
 Date Received: 04/08/22 09:00

Lab Sample ID: 180-136424-10
 Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.95		0.338	0.381	1.00	0.222	pCi/L	04/14/22 09:44	05/09/22 10:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.8		40 - 110					04/14/22 09:44	05/09/22 10:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.56		0.569	0.657	1.00	0.528	pCi/L	04/14/22 10:04	05/05/22 13:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.8		40 - 110					04/14/22 10:04	05/05/22 13:05	1
Y Carrier	77.4		40 - 110					04/14/22 10:04	05/05/22 13:05	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	5.51		0.662	0.759	5.00	0.528	pCi/L		05/10/22 23:15	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-2

Client Sample ID: DUP-04

Lab Sample ID: 180-136424-11

Date Collected: 04/07/22 07:10

Matrix: Water

Date Received: 04/08/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.252		0.153	0.155	1.00	0.207	pCi/L	04/14/22 09:44	05/09/22 10:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.0		40 - 110					04/14/22 09:44	05/09/22 10:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.290	U	0.371	0.372	1.00	0.615	pCi/L	04/14/22 10:04	05/05/22 14:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.0		40 - 110					04/14/22 10:04	05/05/22 14:11	1
Y Carrier	79.3		40 - 110					04/14/22 10:04	05/05/22 14:11	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.542	U	0.401	0.403	5.00	0.615	pCi/L		05/10/22 23:15	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-2

Client Sample ID: APMW-13

Lab Sample ID: 180-136424-12

Date Collected: 04/07/22 13:14

Matrix: Water

Date Received: 04/08/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.988		0.232	0.249	1.00	0.165	pCi/L	04/14/22 09:44	05/09/22 10:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	104		40 - 110					04/14/22 09:44	05/09/22 10:15	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.14		0.404	0.418	1.00	0.544	pCi/L	04/14/22 10:04	05/05/22 14:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	104		40 - 110					04/14/22 10:04	05/05/22 14:11	1
Y Carrier	85.2		40 - 110					04/14/22 10:04	05/05/22 14:11	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.12		0.466	0.487	5.00	0.544	pCi/L		05/10/22 23:15	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-2

Client Sample ID: APMW-14

Lab Sample ID: 180-136424-13

Date Collected: 04/07/22 12:25

Matrix: Water

Date Received: 04/08/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.76		0.311	0.349	1.00	0.205	pCi/L	04/14/22 09:44	05/09/22 10:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.3		40 - 110					04/14/22 09:44	05/09/22 10:15	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.77		0.478	0.542	1.00	0.484	pCi/L	04/14/22 10:04	05/05/22 12:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.3		40 - 110					04/14/22 10:04	05/05/22 12:50	1
Y Carrier	84.9		40 - 110					04/14/22 10:04	05/05/22 12:50	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	4.53		0.570	0.645	5.00	0.484	pCi/L		05/10/22 23:15	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-2

Client Sample ID: APMW-15

Lab Sample ID: 180-136424-14

Date Collected: 04/07/22 10:43

Matrix: Water

Date Received: 04/08/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.697		0.243	0.251	1.00	0.241	pCi/L	04/14/22 09:44	05/09/22 10:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.9		40 - 110					04/14/22 09:44	05/09/22 10:15	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.797		0.473	0.479	1.00	0.714	pCi/L	04/14/22 10:04	05/05/22 12:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.9		40 - 110					04/14/22 10:04	05/05/22 12:51	1
Y Carrier	78.1		40 - 110					04/14/22 10:04	05/05/22 12:51	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.49		0.532	0.541	5.00	0.714	pCi/L		05/10/22 23:15	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-2

Client Sample ID: APMW-16

Lab Sample ID: 180-136424-15

Date Collected: 04/07/22 09:43

Matrix: Water

Date Received: 04/08/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.536		0.186	0.192	1.00	0.156	pCi/L	04/14/22 09:44	05/09/22 10:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.4		40 - 110					04/14/22 09:44	05/09/22 10:16	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.34		0.454	0.470	1.00	0.606	pCi/L	04/14/22 10:04	05/05/22 13:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.4		40 - 110					04/14/22 10:04	05/05/22 13:03	1
Y Carrier	81.1		40 - 110					04/14/22 10:04	05/05/22 13:03	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.88		0.491	0.508	5.00	0.606	pCi/L		05/10/22 23:15	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-2

Client Sample ID: APMW-5D

Lab Sample ID: 180-136424-16

Date Collected: 04/06/22 13:25

Matrix: Water

Date Received: 04/08/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.271		0.147	0.149	1.00	0.175	pCi/L	04/14/22 09:44	05/09/22 10:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.7		40 - 110					04/14/22 09:44	05/09/22 10:16	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.374	U	0.331	0.333	1.00	0.530	pCi/L	04/14/22 10:04	05/05/22 13:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.7		40 - 110					04/14/22 10:04	05/05/22 13:03	1
Y Carrier	86.4		40 - 110					04/14/22 10:04	05/05/22 13:03	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.644		0.362	0.365	5.00	0.530	pCi/L		05/10/22 23:15	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-2

Client Sample ID: APMW-6D

Lab Sample ID: 180-136424-17

Date Collected: 04/07/22 08:10

Matrix: Water

Date Received: 04/08/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.339		0.164	0.167	1.00	0.196	pCi/L	04/14/22 09:44	05/09/22 12:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.3		40 - 110					04/14/22 09:44	05/09/22 12:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.413	U	0.312	0.314	1.00	0.488	pCi/L	04/14/22 10:04	05/05/22 12:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.3		40 - 110					04/14/22 10:04	05/05/22 12:51	1
Y Carrier	85.6		40 - 110					04/14/22 10:04	05/05/22 12:51	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.752		0.352	0.356	5.00	0.488	pCi/L		05/10/22 23:15	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-2

Client Sample ID: APMW-8D

Lab Sample ID: 180-136424-18

Date Collected: 04/06/22 12:30

Matrix: Water

Date Received: 04/08/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.111	U	0.138	0.138	1.00	0.229	pCi/L	04/14/22 09:44	05/09/22 12:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.6		40 - 110					04/14/22 09:44	05/09/22 12:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.454	U	0.329	0.331	1.00	0.510	pCi/L	04/14/22 10:04	05/05/22 12:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.6		40 - 110					04/14/22 10:04	05/05/22 12:51	1
Y Carrier	84.1		40 - 110					04/14/22 10:04	05/05/22 12:51	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.565		0.357	0.359	5.00	0.510	pCi/L		05/10/22 23:15	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-560248/21-A
Matrix: Water
Analysis Batch: 564565

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 560248

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.05315	U	0.0879	0.0880	1.00	0.153	pCi/L	04/14/22 09:44	05/09/22 12:22	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac	
Ba Carrier	98.0		40 - 110				04/14/22 09:44	05/09/22 12:22	1	

Lab Sample ID: LCS 160-560248/1-A
Matrix: Water
Analysis Batch: 564353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 560248

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.81		1.21	1.00	0.204	pCi/L	95	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	99.3		40 - 110						

Lab Sample ID: LCSD 160-560248/2-A
Matrix: Water
Analysis Batch: 564353

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 560248

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER
				Uncert. (2σ+/-)							Limit
Radium-226	11.3	10.29		1.16	1.00	0.185	pCi/L	91	75 - 125	0.22	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits								
Ba Carrier	104		40 - 110								

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-560259/21-A
Matrix: Water
Analysis Batch: 563908

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 560259

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.2922	U	0.223	0.224	1.00	0.349	pCi/L	04/14/22 10:04	05/05/22 12:51	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac	
Ba Carrier	98.0		40 - 110				04/14/22 10:04	05/05/22 12:51	1	
Y Carrier	86.4		40 - 110				04/14/22 10:04	05/05/22 12:51	1	

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-2

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

Lab Sample ID: LCS 160-560259/1-A
Matrix: Water
Analysis Batch: 563913

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 560259

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
Radium-228	8.65	8.584		1.02	1.00	0.354	pCi/L	99	75 - 125	
LCS LCS										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	99.3		40 - 110							
Y Carrier	86.7		40 - 110							

Lab Sample ID: LCSD 160-560259/2-A
Matrix: Water
Analysis Batch: 563913

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 560259

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		RER	RER Limit
Radium-228	8.65	9.616		1.10	1.00	0.358	pCi/L	111	75 - 125	0.49	1	
LCSD LCSD												
Carrier	%Yield	Qualifier	Limits									
Ba Carrier	104		40 - 110									
Y Carrier	87.1		40 - 110									

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-136424-2

Rad

Prep Batch: 560248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136424-1	PZ-4	Total/NA	Water	PrecSep-21	
180-136424-2	EB-02	Total/NA	Water	PrecSep-21	
180-136424-3	FB-02	Total/NA	Water	PrecSep-21	
180-136424-4	APMW-4	Total/NA	Water	PrecSep-21	
180-136424-5	APMW-5	Total/NA	Water	PrecSep-21	
180-136424-6	APMW-6R	Total/NA	Water	PrecSep-21	
180-136424-7	APMW-7	Total/NA	Water	PrecSep-21	
180-136424-8	APMW-8	Total/NA	Water	PrecSep-21	
180-136424-9	APMW-9	Total/NA	Water	PrecSep-21	
180-136424-10	DUP-03	Total/NA	Water	PrecSep-21	
180-136424-11	DUP-04	Total/NA	Water	PrecSep-21	
180-136424-12	APMW-13	Total/NA	Water	PrecSep-21	
180-136424-13	APMW-14	Total/NA	Water	PrecSep-21	
180-136424-14	APMW-15	Total/NA	Water	PrecSep-21	
180-136424-15	APMW-16	Total/NA	Water	PrecSep-21	
180-136424-16	APMW-5D	Total/NA	Water	PrecSep-21	
180-136424-17	APMW-6D	Total/NA	Water	PrecSep-21	
180-136424-18	APMW-8D	Total/NA	Water	PrecSep-21	
MB 160-560248/21-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-560248/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-560248/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 560259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-136424-1	PZ-4	Total/NA	Water	PrecSep_0	
180-136424-2	EB-02	Total/NA	Water	PrecSep_0	
180-136424-3	FB-02	Total/NA	Water	PrecSep_0	
180-136424-4	APMW-4	Total/NA	Water	PrecSep_0	
180-136424-5	APMW-5	Total/NA	Water	PrecSep_0	
180-136424-6	APMW-6R	Total/NA	Water	PrecSep_0	
180-136424-7	APMW-7	Total/NA	Water	PrecSep_0	
180-136424-8	APMW-8	Total/NA	Water	PrecSep_0	
180-136424-9	APMW-9	Total/NA	Water	PrecSep_0	
180-136424-10	DUP-03	Total/NA	Water	PrecSep_0	
180-136424-11	DUP-04	Total/NA	Water	PrecSep_0	
180-136424-12	APMW-13	Total/NA	Water	PrecSep_0	
180-136424-13	APMW-14	Total/NA	Water	PrecSep_0	
180-136424-14	APMW-15	Total/NA	Water	PrecSep_0	
180-136424-15	APMW-16	Total/NA	Water	PrecSep_0	
180-136424-16	APMW-5D	Total/NA	Water	PrecSep_0	
180-136424-17	APMW-6D	Total/NA	Water	PrecSep_0	
180-136424-18	APMW-8D	Total/NA	Water	PrecSep_0	
MB 160-560259/21-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-560259/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-560259/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record



Client Information			Sampler: <i>Brown Shali</i>		Lab PM: Brown, Shali		Carrier Tracking No(s):		COC No:					
Client Contact: SCS Contacts			Phone: <i>850-336-0192</i>		E-Mail: shali.brown@eurofinset.com				Page: <i>182</i>					
Company: SCS			Analysis Requested						Job #: <i>182</i>					
Address: 3535 Colonnade Pkwy Bin S 530 EC			Due Date Requested:		Field Filtered Sample (Yes or No) 2540C Total Dissolved Solids 300_28Day Chloride Fluoride Sulfate Bromide 6020B/7470 Custom 23 (App/1/1/1/1/1/1) + Mercury + Fe Mg Na Al Mn K Sr Si and Silica 363.2 Nitrate/Nitrite NOX (pres) 5310C Total Organic Carbon 2320B Alkalinity, Total, Carb, Bicarb 9315_Ra226 Radium 226 9320_Ra228 Radium 228 Combined RAD 2540 Total Suspended Solids		Total Number of containers		Preservation Codes:					
City: Birmingham			TAT Requested (days):						A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA			M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)		
State, Zip: AL, 35243			PO #:						Other:					
Phone: 205-992-6283			WO #:											
Email: SCS Contacts			Project #: 18020186											
Project Name: Plant Watson			SSOW#:											
Site: Ash Pond														
Sample Identification			Sample Date		Sample Time		Sample Type (C=comp, G=grab)		MATRIX (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Special Instructions/Note:			
APMW-TR			PZ-4		4-6-22 1745		G		GW		Lot #s for bottles are on bottle order # 15213			
APMW-2			EB-02		4-7-22 0858		G		DI GW					
APMW-3			FB-02		4-7-22 0815		G		DI GW					
APMW-4					4-6-22 0902		G		GW					
APMW-5					4-6-22 1450		G		GW					
APMW-6R					4-7-22 1047		G		GW					
APMW-7					4-6-22 1515		G		GW					
APMW-8					4-6-22 1036		G		GW					
APMW-9					4-6-22 0831		G		GW					
APMW-10			DUP-03		4-6-22 1415		G		GW					
APMW-11			DUP-04		4-7-22 0710		G		GW					
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained for)								
<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						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For								
Deliverable Requested: I, II, III, IV, Other (specify)						Special Instructions/QC Requirements:								
Empty Kit Relinquished by:			Date:			Time:			Method of Shipment:					
Relinquished by: <i>[Signature]</i>			Date/Time: 4-7-22 1530			Company: RSH ENV.			Received by: <i>[Signature]</i>					
Relinquished by:			Date/Time:			Company:			Date/Time: 4-8-22 900					
Relinquished by:			Date/Time:			Company:			Date/Time:					
Custody Seals Intact:			Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks:								
<input type="checkbox"/> Yes <input type="checkbox"/> No														



Eurofins TestAmerica, Pittsburgh

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 Pittsburgh, PA 15238
 Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record



Environment Testing
 America

Client Information				Sampler: <u>Rick Henderson / Colm Krev...</u>		Lab PM: Brown, Shali		Carrier Tracking No(s):		COC No:																													
Client Contact: SCS Contacts				Phone: <u>850 336 0192</u>		E-Mail: shali.brown@eurofinset.com				Page: <u>2 of 2</u>																													
Company: SCS				Analysis Requested								Job #:																											
Address: 3535 Colonnade Pkwy Bin S 530 EC				Due Date Requested:		Field Filtered Sample (Yes or No) # of Containers (Yes or No)		2540C Total Dissolved Solids		300_28Day Chloride Fluoride Sulfate Bromide		6020B/7470 Custom 23 (Appl/ ApplV-9) + Mercury		+ Fe Mg Na Al Mn K Sr Si and Silica		353.2 Nitrate/Nitrite NOX (pres)		5310C Total Organic Carbon		2320B Alkalinity, Total, Carb, Bicarb		9315_Ra226 Radium 226		9320_Ra228 Radium 228		Combined RAD		2540 Total Suspended Solids		Total Number of Containers		Preservation Codes:							
City: Birmingham				TAT Requested (days):																												A - HCL				M - Hexane			
State, Zip: AL, 35243				PO #:																												B - NaOH				N - None			
Phone: 205-992-6283				WO #:																												C - Zn Acetate				O - AsNaO2			
Email: SCS Contacts				Project #: 18020186																												D - Nitric Acid				P - Na2O4S			
Project Name: Plant Watson				SSOW#:		E - NaHSO4				Q - Na2SO3																													
Site: Ash Pond						F - MeOH				R - Na2S2O3																													
						G - Amchlor				S - H2SO4																													
						H - Ascorbic Acid				T - TSP Dodecahydrate																													
						I - Ice				U - Acetone																													
						J - DI Water				V - MCAA																													
						K - EDTA				W - pH 4-5																													
						L - EDA				Z - other (specify)																													
						Other:																																	
Sample Identification				Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Preservation Code:		Special Instructions/Note:																									
APMW-12										GW				Lot #2 For Bottles ARE on Bottle order # 15213																									
APMW-13				4-7-22		1314		G		GW																													
APMW-14				4-7-22		1225		G		GW																													
APMW-15				4-7-22		1043		G		GW																													
APMW-16				4-7-22		0943		G		GW																													
APMW-2D										GW																													
APMW-3D										GW																													
APMW-4D										GW																													
APMW-5D				4-6-22		1325		G		GW																													
APMW-6D				4-7-22		0810		G		GW																													
APMW-8D				4-6-22		1230		G		GW																													
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																																	
<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						<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)						Special Instructions/QC Requirements:																																	
Empty Kit Relinquished by:				Date:		Time:		Method of Shipment:																															
Relinquished by: <u>[Signature]</u>				Date/Time: 4-7-22 1530		Company: <u>RDH EM</u>		Received by: <u>D Watson</u>		Date/Time: 4-8-22 900		Company: <u>TESTA/TT</u>																											
Relinquished by:				Date/Time:		Company:		Received by:		Date/Time:		Company:																											
Relinquished by:				Date/Time:		Company:		Received by:		Date/Time:		Company:																											
Custody Seals Intact:		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:																																			
Δ Yes Δ No																																							

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ORIGIN ID: BIXA (412) 963-7058

TESTAMERICA PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP OF 180-136424 Waybill

ACTWGT:
CAD: 6953799/SSFE2300
DIMS: 24x13x14 IN

BILL THIRD PARTY

(412) 963-7058

PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07APR22
ACTWGT: 60.70 LB
CAD: 6953799/SSFE2300
DIMS: 24x13x14 IN

BILL THIRD PARTY

Part # 156297-435 RRDB EXP 11/22

TO EURO FINS
SHALI BROWN
301 ALPHA DRIVE

PITTSBURGH PA 15238

(412) 963-7058

REF:

DEPT:

Uncorrected temp 4.3 °C
Thermometer ID 16
CF -0.4 Initials AS
PT-WI-SR-001 effective 11/8/18

FedEx Express



REL# 3785346

5 of 5

MPS# 2717 8302 9584
0263

Mstr# 2717 8302 9540

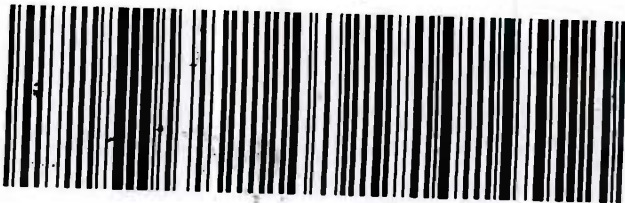
0201

FRI - 08 APR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238

PA-US PIT



RT 98

1 10:30

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FZ

9584
04.08

TO EURO FINS
SHALI BROWN
301 ALPHA DRIVE

PITTSBURGH PA 15238

(412) 963-7058

REF:

DEPT:

Uncorrected temp 4.7 °C
Thermometer ID 16
CF -0.4 Initials AS
PT-WI-SR-001 effective 11/8/18

FedEx Express



REL# 3785346

3 of 5

MPS# 2717 8302 9562
0263

Mstr# 2717 8302 9540

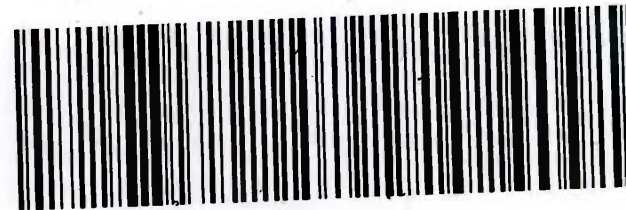
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FRI - 08 APR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238

PA-US PIT



RT 98

1 10:30

A

FZ

9562
04.08

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ORIGIN ID: BIKR (412) 969-7058
 TEST AMERICA BEFORE BILL
 SEE CHECK OR PA 15238
 301 ALBUQUERQUE, US
 UNITED STATES

TO EURO FINS
 SHALL BROWN
 301 ALPHA DRIVE
 PITTSBURGH PA 15238

SHIP DATE: 07APR22
 SHIP WT: 6.0 LB
 ACT WT: 6.997 LB / 31.4 IN
 DIMS: 24x13x14
 BILL THIRD PARTY

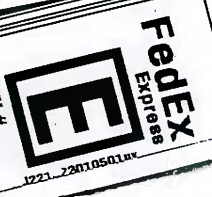
Part # 156297-435 RDB EXP 11/22

(412) 969-7058



Uncorrected temp 5.0 °C
 Thermometer ID 16
 Initials LS
 CF -4.4

PT-3M-SR-001 effective 11/18/18



FRI - 08 APR 10:30A
 PRIORITY OVERNIGHT

15238
 PIT

PA-US

4 of 6
 MPS# 2717 8302 9573
 0263
 Mstr# 2717 8302 9540
XN AGCA



98
 1
 10:30
 9573
 04:08
 A

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ORIGIN ID: BIXA (412) 963-7058

TESTAMERICA PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07APR22
ACTWGT: 60.70 LB
CAD: 6993799/SSFE2300
DIMS: 24x13x14 IN

BILL THIRD PARTY

TO EURO FINS
SHALI BROWN
301 ALPHA DRIVE

PITTSBURGH PA 15238

(412) 963-7058

THU: PO: REF: DEPT:

Uncorrected temp 5.8 °C
Thermometer ID 16

CF -0.4 Initials AS

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

FedEx Express



REL# 3785346

2 of 5

MPS# 2717 8302 9551
0263

Mstr# 2717 8302 9540 0201

XN AGCA

15238

PA-US PIT



RT 98
FZ
1 10:30
A 9551 04.08

Do not lift using this tag.

ORIGIN ID: BIXA (412) 963-7058

TESTAMERICA PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07APR22
ACTWGT: 60.70 LB
CAD: 6993799/SSFE2300
DIMS: 24x13x14 IN

BILL THIRD PARTY

TO EURO FINS
SHALI BROWN
301 ALPHA DRIVE

PITTSBURGH PA 15238

(412) 963-7058

THU: PO: REF: DEPT:



Uncorrected temp 5.1 °C
Thermometer ID 16

CF -0.4 Initials AS

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

FedEx Express



REL# 3785346

1 of 5

TRK# 2717 8302 9540
0201

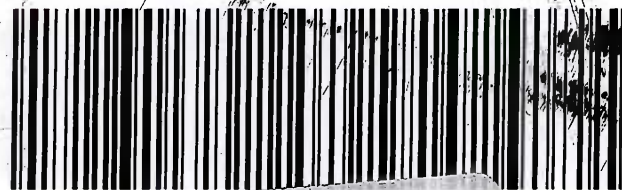
MASTER

XN AGCA

FRI - 08 APR 10:30A
PRIORITY OVERNIGHT

15238

PA-US PIT



RT 98
FZ
1 10:30
A 9540 04.08

Part # 156297-435 RROB EXP 11/22

Part # 156297-435 RROB EXP 11/22

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM	Brown, Shali	Carrier Tracking No(s):	COC No: 180-458998.1
Client Contact:		Phone	Shali.Brown@eurofins.com	State of Origin:	Page 1 of 2
Shipping/Receiving		E-Mail	Shali.Brown@eurofins.com	Georgia	Job # 180-136424-2
Company		Accreditations Required (See note)			
TestAmerica Laboratories, Inc.		Preservation Codes:			
Address 13715 Rider Trail North,		A - HCL M - Hexane			
City Earth City		B - NaOH N - None			
State/Zip MO, 63045		C - Zn Acetate O - AsNaO2			
Phone 314-298-8566(Tel) 314-298-8757(Fax)		D - Nitric Acid P - Na2O4S			
Email		E - NaHSO4 G - Na2SO3			
Project Name Plant Watson Ash Pond		F - MeOH S - H2SO4			
Site		H - Ascorbic Acid T - TSP Dodecalhydrate			
		I - Ice U - Acetone			
		J - DI Water V - MCAA			
		K - EDTA W - pH 4-5			
		L - EDA Z - other (specify)			
		Other:			
		Special Instructions/Note:			
		Total Number of containers			
		Field Filtered Sample (Yes or No)			
		Perform MS/MSD (Yes or No)			
		9320_Ra228/PreSep_0 Radium 228			
		9315_Ra228/PreSep_21 Radium 226			
		Ra228Ra228_GFP/Combined Radium 226 and Radium 228			
		Analysis Requested			
		Sample Identification - Client ID (Lab ID)			
Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/oil, B=issue, A=air)	Preservation Code
PZ-4 (180-136424-1)	4/6/22	17:45 Eastern	Water	Water	X
EB-02 (180-136424-2)	4/7/22	08:58 Eastern	Water	Water	X
FB-02 (180-136424-3)	4/7/22	08:15 Eastern	Water	Water	X
APMW-4 (180-136424-4)	4/6/22	09:02 Eastern	Water	Water	X
APMW-5 (180-136424-5)	4/6/22	14:50 Eastern	Water	Water	X
APMW-6R (180-136424-6)	4/7/22	10:47 Eastern	Water	Water	X
APMW-7 (180-136424-7)	4/6/22	15:15 Eastern	Water	Water	X
APMW-8 (180-136424-8)	4/6/22	10:36 Eastern	Water	Water	X
APMW-9 (180-136424-9)	4/6/22	08:31 Eastern	Water	Water	X
Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon out 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/leak/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: <i>Mo</i>					
Relinquished by: <i>Mo</i>					
Relinquished by: <i>Mo</i>					
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No					
Custody Seal No.:					
Date/Time: 4/11/22 17:00					
Date/Time: 4/11/22 17:00					
Date/Time: 4/11/22 17:00					
Company: <i>SCA</i>					
Company: <i>SCA</i>					
Company: <i>SCA</i>					
Received by: <i>Sara Worthington</i>					
Date/Time: <i>APR 12 2022 10:15</i>					
Company: <i>ETHS</i>					
Received by: <i>SCA</i>					
Date/Time: <i>APR 12 2022 10:15</i>					
Company: <i>ETHS</i>					
Cooler Temperature(s) °C and Other Remarks					
Special Instructions/QC Requirements:					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months					
Method of Shipment: FED EX					
Received by: <i>Sara Worthington</i>					
Date/Time: <i>APR 12 2022 10:15</i>					
Company: <i>ETHS</i>					



Chain of Custody Record

Client Information (Sub Contract Lab)			Lab PM Brown, Shali		Corner Tracking No(s)		COC No: 180-458998 2																																																											
Shipping/Receiving			E-Mail Shali.Brown@et.eurofins.com		State of Origin Georgia		Page Page 2 of 2																																																											
Company TestAmerica Laboratories, Inc.			Accreditations Required (See note):		Job # 180-136424-2		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)																																																											
Address 13715 Rider Trail North,			Due Date Requested: 5/12/2022		Analysis Requested																																																													
City: Earth City			TAT Requested (days):																																																															
State, Zip MO, 63045			PO #:		Field Filtered Sample (Yes or No)		Total Number of Containers																																																											
Phone: 314-298-8566(Tel) 314-298-8757(Fax)			WO #:		9320_Ra228/PreSep_0 Radium 228		Radium-228																																																											
Email:			Project # 18020186		9315_Ra226/PreSep_21 Radium 226		Ra226Ra228_GFPc/ Combined Radium-226 and																																																											
Plant Name: Plant Watson Ash Pond			SSOW#:		Perform MS/MSD (Yes or No)		Special Instructions/Note:																																																											
Site:			Sample Date		Sample Time		Sample Type (C=Comp, G=grab)																																																											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Sample Identification - Client ID (Lab ID)</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (Water, Solid, Other)</th> <th>Preservation Code:</th> </tr> </thead> <tbody> <tr> <td>DUP-03 (180-136424-10)</td> <td>4/6/22</td> <td>14:15 Eastern</td> <td></td> <td>Water</td> <td></td> </tr> <tr> <td>DUP-04 (180-136424-11)</td> <td>4/7/22</td> <td>07:10 Eastern</td> <td></td> <td>Water</td> <td></td> </tr> <tr> <td>APMW-13 (180-136424-12)</td> <td>4/7/22</td> <td>13:14 Eastern</td> <td></td> <td>Water</td> <td></td> </tr> <tr> <td>APMW-14 (180-136424-13)</td> <td>4/7/22</td> <td>12:25 Eastern</td> <td></td> <td>Water</td> <td></td> </tr> <tr> <td>APMW-15 (180-136424-14)</td> <td>4/7/22</td> <td>10:43 Eastern</td> <td></td> <td>Water</td> <td></td> </tr> <tr> <td>APMW-16 (180-136424-15)</td> <td>4/7/22</td> <td>09:43 Eastern</td> <td></td> <td>Water</td> <td></td> </tr> <tr> <td>APMW-5D (180-136424-16)</td> <td>4/6/22</td> <td>13:25 Eastern</td> <td></td> <td>Water</td> <td></td> </tr> <tr> <td>APMW-6D (180-136424-17)</td> <td>4/7/22</td> <td>08:10 Eastern</td> <td></td> <td>Water</td> <td></td> </tr> <tr> <td>APMW-8D (180-136424-18)</td> <td>4/6/22</td> <td>12:30 Eastern</td> <td></td> <td>Water</td> <td></td> </tr> </tbody> </table>			Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Other)	Preservation Code:	DUP-03 (180-136424-10)	4/6/22	14:15 Eastern		Water		DUP-04 (180-136424-11)	4/7/22	07:10 Eastern		Water		APMW-13 (180-136424-12)	4/7/22	13:14 Eastern		Water		APMW-14 (180-136424-13)	4/7/22	12:25 Eastern		Water		APMW-15 (180-136424-14)	4/7/22	10:43 Eastern		Water		APMW-16 (180-136424-15)	4/7/22	09:43 Eastern		Water		APMW-5D (180-136424-16)	4/6/22	13:25 Eastern		Water		APMW-6D (180-136424-17)	4/7/22	08:10 Eastern		Water		APMW-8D (180-136424-18)	4/6/22	12:30 Eastern		Water		Special Instructions/Note:		Special Instructions/Note:	
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<p>Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment:</p> <p>Relinquished by: <i>MO</i> Date/Time: <i>4/11/22 1700</i> Company: <i>etasth</i> Received by: _____ Date/Time: _____ Company: _____</p> <p>Relinquished by: _____ Date/Time: _____ Company: _____ Received by: <i>Jana Weddington</i> Date/Time: <i>APR 12 2022 1015</i> Company: <i>etasth</i></p> <p>Relinquished by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____</p> <p>Custody Seals Intact: _____ Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks:</p>																																																																		



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-136424-2

Login Number: 136424

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Watson, Debbie

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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 <math><6\text{mm}</math> (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: 180-136424-2

Login Number: 136424

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 04/12/22 11:38 AM

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	



ANALYTICAL REPORT

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-137407-1

Client Project/Site: Plant Watson Ash Pond Surfacewater

For:

Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Robert Singleton



Authorized for release by:
5/25/2022 5:36:03 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@et.eurofinsus.com

LINKS

Review your project
results through



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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



Table of Contents

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Case Narrative

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Job ID: 180-137407-1

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-137407-1

Receipt

The samples were received on 4/29/2022 3:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 12 coolers at receipt time were 1.7°C, 1.7°C, 2.2°C, 2.4°C, 2.7°C, 2.7°C, 2.8°C, 3.3°C, 3.4°C, 3.4°C, 3.4°C and 3.8°C

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 180-399784 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 180-399785 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 180-399785 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Metals

Method 6020B: The post digestion spike % recovery for barium associated with batch 180-398761 was outside of control limits. The associated sample is: SW-12 (180-137407-36).

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 Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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 Watson Ash Pond Surfacewater

Job ID: 180-137407-1

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	06-27-22
California	State	2891	04-30-22 *
Connecticut	State	PH-0688	09-30-22
Florida	NELAP	E871008	06-30-22
Georgia	State	PA 02-00416	04-30-23
Illinois	NELAP	004375	06-30-22
Kansas	NELAP	E-10350	03-31-23
Kentucky (UST)	State	162013	04-30-22 *
Kentucky (WW)	State	KY98043	12-31-22
Louisiana	NELAP	04041	06-30-22
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-22
Nevada	State	PA00164	08-31-22
New Hampshire	NELAP	2030	04-04-23
New Jersey	NELAP	PA005	06-30-23
New York	NELAP	11182	04-01-23
North Carolina (WW/SW)	State	434	12-31-22
North Dakota	State	R-227	04-30-22 *
Oregon	NELAP	PA-2151	02-07-23
Pennsylvania	NELAP	02-00416	04-30-23
Rhode Island	State	LAO00362	12-31-21 *
South Carolina	State	89014	06-30-22
Texas	NELAP	T104704528	03-31-23
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-22
Virginia	NELAP	10043	09-15-22
West Virginia DEP	State	142	01-31-23
Wisconsin	State	998027800	08-31-22

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

Sample Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-137407-1	SW-1	Water	04/27/22 17:36	04/29/22 15:00
180-137407-2	SW-1	Water	04/27/22 17:43	04/29/22 15:00
180-137407-3	SW-1	Water	04/27/22 17:51	04/29/22 15:00
180-137407-4	SW-1	Water	04/27/22 17:57	04/29/22 15:00
180-137407-5	SW-2	Water	04/27/22 16:49	04/29/22 15:00
180-137407-6	SW-2	Water	04/27/22 17:03	04/29/22 15:00
180-137407-7	SW-2	Water	04/27/22 17:13	04/29/22 15:00
180-137407-8	SW-2	Water	04/27/22 17:21	04/29/22 15:00
180-137407-9	SW-3	Water	04/27/22 08:42	04/29/22 15:00
180-137407-10	SW-3	Water	04/27/22 09:02	04/29/22 15:00
180-137407-11	SW-3	Water	04/27/22 09:20	04/29/22 15:00
180-137407-12	SW-3	Water	04/27/22 09:33	04/29/22 15:00
180-137407-13	SW-4	Water	04/27/22 10:50	04/29/22 15:00
180-137407-14	SW-4	Water	04/27/22 11:18	04/29/22 15:00
180-137407-15	DUP-01	Water	04/27/22 09:50	04/29/22 15:00
180-137407-16	DUP-01	Water	04/27/22 10:18	04/29/22 15:00
180-137407-17	SW-5	Water	04/27/22 08:07	04/29/22 15:00
180-137407-18	SW-5	Water	04/27/22 07:07	04/29/22 15:00
180-137407-19	SW-5	Water	04/27/22 08:35	04/29/22 15:00
180-137407-20	SW-5	Water	04/27/22 07:35	04/29/22 15:00
180-137407-21	SW-6	Water	04/27/22 09:19	04/29/22 15:00
180-137407-22	SW-6	Water	04/27/22 09:30	04/29/22 15:00
180-137407-23	SW-6	Water	04/27/22 09:45	04/29/22 15:00
180-137407-24	SW-6	Water	04/27/22 09:52	04/29/22 15:00
180-137407-25	SW-9	Water	04/27/22 12:21	04/29/22 15:00
180-137407-26	SW-9	Water	04/27/22 12:29	04/29/22 15:00
180-137407-27	SW-9	Water	04/27/22 12:42	04/29/22 15:00
180-137407-28	SW-9	Water	04/27/22 12:52	04/29/22 15:00
180-137407-29	SW-10	Water	04/27/22 11:31	04/29/22 15:00
180-137407-30	SW-10	Water	04/27/22 11:45	04/29/22 15:00
180-137407-31	DUP-02	Water	04/27/22 10:31	04/29/22 15:00
180-137407-32	DUP-02	Water	04/27/22 10:45	04/29/22 15:00
180-137407-33	SW-11	Water	04/27/22 10:58	04/29/22 15:00
180-137407-34	SW-11	Water	04/27/22 11:06	04/29/22 15:00
180-137407-35	SW-12	Water	04/27/22 10:30	04/29/22 15:00
180-137407-36	SW-12	Water	04/27/22 10:39	04/29/22 15:00
180-137407-37	SW-13	Water	04/27/22 12:21	04/29/22 15:00
180-137407-38	SW-13	Water	04/27/22 12:33	04/29/22 15:00
180-137407-39	SW-14	Water	04/27/22 12:55	04/29/22 15:00
180-137407-40	SW-14	Water	04/27/22 13:16	04/29/22 15:00
180-137407-41	SW-15	Water	04/27/22 13:43	04/29/22 15:00
180-137407-42	SW-15	Water	04/27/22 14:04	04/29/22 15:00
180-137407-43	DUP-03	Water	04/27/22 12:43	04/29/22 15:00
180-137407-44	DUP-03	Water	04/27/22 13:04	04/29/22 15:00
180-137407-45	SW-16	Water	04/27/22 18:49	04/29/22 15:00
180-137407-46	SW-16	Water	04/27/22 19:02	04/29/22 15:00
180-137407-47	SW-17	Water	04/27/22 10:06	04/29/22 15:00
180-137407-48	SW-17	Water	04/27/22 10:23	04/29/22 15:00
180-137407-49	EB-01	Water	04/27/22 07:58	04/29/22 15:00
180-137407-50	EB-02	Water	04/27/22 16:17	04/29/22 15:00
180-137407-51	FB-01	Water	04/27/22 08:06	04/29/22 15:00
180-137407-52	FB-02	Water	04/27/22 16:11	04/29/22 15:00

Method Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PIT
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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:

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

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-1
Date Collected: 04/27/22 17:36
Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-1
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	300.0		1			399784	05/24/22 22:17	LWM	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	398398	05/11/22 10:59	NAF	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			398761	05/13/22 16:21	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	398317	05/11/22 05:49	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			398485	05/11/22 16:55	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	397376	05/02/22 14:23	JCR	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-1
Date Collected: 04/27/22 17:43
Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			399784	05/25/22 00:15	LWM	TAL PIT
Instrument ID: CHIC2100A										
Dissolved	Prep	3005A			25 mL	25 mL	398398	05/11/22 10:59	NAF	TAL PIT
Dissolved	Analysis	EPA 6020B		1			398761	05/13/22 16:25	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	7470A			50 mL	50 mL	398317	05/11/22 05:49	RJR	TAL PIT
Dissolved	Analysis	EPA 7470A		1			398485	05/11/22 17:01	RJR	TAL PIT
Instrument ID: HGY										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	397376	05/02/22 14:23	JCR	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-1
Date Collected: 04/27/22 17:51
Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-3
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	300.0		1			399784	05/25/22 00:30	LWM	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	398398	05/11/22 10:59	NAF	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			398761	05/13/22 16:28	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	398317	05/11/22 05:49	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			398485	05/11/22 17:02	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	397376	05/02/22 14:23	JCR	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-1
Date Collected: 04/27/22 17:57
Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			399784	05/25/22 00:45	LWM	TAL PIT
Dissolved	Prep	3005A			25 mL	25 mL	398398	05/11/22 10:59	NAF	TAL PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			398761	05/13/22 16:32	RSK	TAL PIT
Dissolved	Prep	7470A			50 mL	50 mL	398317	05/11/22 05:49	RJR	TAL PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGY		1			398485	05/11/22 17:03	RJR	TAL PIT
Dissolved	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	397376	05/02/22 14:23	JCR	TAL PIT

Client Sample ID: SW-2
Date Collected: 04/27/22 16:49
Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-5
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	300.0 Instrument ID: CHIC2100A		1			399784	05/24/22 23:31	LWM	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	398398	05/11/22 10:59	NAF	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			398761	05/13/22 16:36	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	398317	05/11/22 05:49	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			398485	05/11/22 17:04	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	397376	05/02/22 14:23	JCR	TAL PIT

Client Sample ID: SW-2
Date Collected: 04/27/22 17:03
Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			399784	05/24/22 22:02	LWM	TAL PIT
Dissolved	Prep	3005A			25 mL	25 mL	398398	05/11/22 10:59	NAF	TAL PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			398761	05/13/22 16:39	RSK	TAL PIT
Dissolved	Prep	7470A			50 mL	50 mL	398317	05/11/22 05:49	RJR	TAL PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGY		1			398485	05/11/22 17:05	RJR	TAL PIT
Dissolved	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	397376	05/02/22 14:23	JCR	TAL PIT

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-2

Lab Sample ID: 180-137407-7

Date Collected: 04/27/22 17:13

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			399784	05/25/22 02:14	LWM	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	398398	05/11/22 10:59	NAF	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			398761	05/13/22 16:43	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	398317	05/11/22 05:49	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			398485	05/11/22 17:06	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	397377	05/02/22 14:25	JCR	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-2

Lab Sample ID: 180-137407-8

Date Collected: 04/27/22 17:21

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			399784	05/25/22 01:00	LWM	TAL PIT
Instrument ID: CHIC2100A										
Dissolved	Prep	3005A			25 mL	25 mL	398398	05/11/22 10:59	NAF	TAL PIT
Dissolved	Analysis	EPA 6020B		1			398761	05/13/22 16:46	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	7470A			50 mL	50 mL	398317	05/11/22 05:49	RJR	TAL PIT
Dissolved	Analysis	EPA 7470A		1			398485	05/11/22 17:07	RJR	TAL PIT
Instrument ID: HGY										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	397377	05/02/22 14:25	JCR	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-3

Lab Sample ID: 180-137407-9

Date Collected: 04/27/22 08:42

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			399784	05/24/22 18:34	LWM	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	398398	05/11/22 10:59	NAF	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			398761	05/13/22 16:57	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	398317	05/11/22 05:49	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			398485	05/11/22 17:08	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	397377	05/02/22 14:25	JCR	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-3

Lab Sample ID: 180-137407-10

Date Collected: 04/27/22 09:02

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			399784	05/24/22 19:33	LWM	TAL PIT
Instrument ID: CHIC2100A										
Dissolved	Prep	3005A			25 mL	25 mL	398398	05/11/22 10:59	NAF	TAL PIT
Dissolved	Analysis	EPA 6020B		1			398761	05/13/22 17:01	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	7470A			50 mL	50 mL	398317	05/11/22 05:49	RJR	TAL PIT
Dissolved	Analysis	EPA 7470A		1			398485	05/11/22 17:09	RJR	TAL PIT
Instrument ID: HGY										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	397377	05/02/22 14:25	JCR	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-3

Lab Sample ID: 180-137407-11

Date Collected: 04/27/22 09:20

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			399784	05/24/22 20:33	LWM	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	398398	05/11/22 10:59	NAF	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			398761	05/13/22 17:05	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	398317	05/11/22 05:49	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			398485	05/11/22 17:11	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	397377	05/02/22 14:25	JCR	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-3

Lab Sample ID: 180-137407-12

Date Collected: 04/27/22 09:33

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			399785	05/24/22 19:15	LWM	TAL PIT
Instrument ID: CHICS2100B										
Dissolved	Prep	3005A			25 mL	25 mL	398398	05/11/22 10:59	NAF	TAL PIT
Dissolved	Analysis	EPA 6020B		1			398761	05/13/22 17:08	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	7470A			50 mL	50 mL	398317	05/11/22 05:49	RJR	TAL PIT
Dissolved	Analysis	EPA 7470A		1			398485	05/11/22 17:15	RJR	TAL PIT
Instrument ID: HGY										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	397377	05/02/22 14:25	JCR	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-4

Lab Sample ID: 180-137407-13

Date Collected: 04/27/22 10:50

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			399785	05/24/22 23:28	LWM	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	25 mL	398398	05/11/22 10:59	NAF	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			398761	05/13/22 17:12	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	398317	05/11/22 05:49	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			398485	05/11/22 17:16	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	397377	05/02/22 14:25	JCR	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-4

Lab Sample ID: 180-137407-14

Date Collected: 04/27/22 11:18

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			399785	05/25/22 00:12	LWM	TAL PIT
Instrument ID: CHICS2100B										
Dissolved	Prep	3005A			25 mL	25 mL	398398	05/11/22 10:59	NAF	TAL PIT
Dissolved	Analysis	EPA 6020B		1			398761	05/13/22 17:16	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	7470A			50 mL	50 mL	398317	05/11/22 05:49	RJR	TAL PIT
Dissolved	Analysis	EPA 7470A		1			398485	05/11/22 17:17	RJR	TAL PIT
Instrument ID: HGY										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	397377	05/02/22 14:25	JCR	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: DUP-01

Lab Sample ID: 180-137407-15

Date Collected: 04/27/22 09:50

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			399785	05/24/22 19:30	LWM	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	25 mL	398398	05/11/22 10:59	NAF	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			398761	05/13/22 17:19	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	398317	05/11/22 05:49	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			398485	05/11/22 17:18	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	397377	05/02/22 14:25	JCR	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: DUP-01
Date Collected: 04/27/22 10:18
Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			399785	05/24/22 21:58	LWM	TAL PIT
Dissolved	Prep	3005A			25 mL	25 mL	398378	05/11/22 09:37	EMR	TAL PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			399007	05/14/22 11:52	RSK	TAL PIT
Dissolved	Prep	7470A			50 mL	50 mL	398317	05/11/22 05:49	RJR	TAL PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGY		1			398485	05/11/22 17:19	RJR	TAL PIT
Dissolved	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	397377	05/02/22 14:25	JCR	TAL PIT

Client Sample ID: SW-5
Date Collected: 04/27/22 08:07
Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-17
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	300.0 Instrument ID: CHIC2100A		1			399784	05/24/22 18:05	LWM	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	398378	05/11/22 09:37	EMR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			399007	05/14/22 12:10	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	398317	05/11/22 05:49	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			398485	05/11/22 17:20	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	397377	05/02/22 14:25	JCR	TAL PIT

Client Sample ID: SW-5
Date Collected: 04/27/22 07:07
Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			399784	05/24/22 18:48	LWM	TAL PIT
Dissolved	Prep	3005A			25 mL	25 mL	398378	05/11/22 09:37	EMR	TAL PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			399007	05/14/22 12:14	RSK	TAL PIT
Dissolved	Prep	7470A			50 mL	50 mL	398317	05/11/22 05:49	RJR	TAL PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGY		1			398485	05/11/22 17:21	RJR	TAL PIT
Dissolved	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	397377	05/02/22 14:25	JCR	TAL PIT

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-5

Lab Sample ID: 180-137407-19

Date Collected: 04/27/22 08:35

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			399784	05/24/22 18:19	LWM	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	398378	05/11/22 09:37	EMR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			399007	05/14/22 12:28	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	398320	05/11/22 05:51	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			398485	05/11/22 17:27	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	397377	05/02/22 14:25	JCR	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-5

Lab Sample ID: 180-137407-20

Date Collected: 04/27/22 07:35

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			399784	05/24/22 16:55	LWM	TAL PIT
Instrument ID: CHIC2100A										
Dissolved	Prep	3005A			25 mL	25 mL	398378	05/11/22 09:37	EMR	TAL PIT
Dissolved	Analysis	EPA 6020B		1			399007	05/14/22 12:32	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	7470A			50 mL	50 mL	398320	05/11/22 05:51	RJR	TAL PIT
Dissolved	Analysis	EPA 7470A		1			398485	05/11/22 17:30	RJR	TAL PIT
Instrument ID: HGY										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	397377	05/02/22 14:25	JCR	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-6

Lab Sample ID: 180-137407-21

Date Collected: 04/27/22 09:19

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			399784	05/24/22 19:48	LWM	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	398378	05/11/22 09:37	EMR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			399007	05/14/22 12:36	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	398320	05/11/22 05:51	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			398485	05/11/22 17:31	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	397377	05/02/22 14:25	JCR	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-6

Lab Sample ID: 180-137407-22

Date Collected: 04/27/22 09:30

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			399785	05/24/22 19:45	LWM	TAL PIT
Dissolved	Prep	3005A			25 mL	25 mL	398378	05/11/22 09:37	EMR	TAL PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			399007	05/14/22 12:39	RSK	TAL PIT
Dissolved	Prep	7470A			50 mL	50 mL	398320	05/11/22 05:51	RJR	TAL PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGY		1			398485	05/11/22 17:32	RJR	TAL PIT
Dissolved	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	397377	05/02/22 14:25	JCR	TAL PIT

Client Sample ID: SW-6

Lab Sample ID: 180-137407-23

Date Collected: 04/27/22 09:45

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0 Instrument ID: CHICS2100B		1			399785	05/24/22 20:00	LWM	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	398378	05/11/22 09:37	EMR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			399007	05/14/22 12:43	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	398320	05/11/22 05:51	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			398485	05/11/22 17:34	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	397377	05/02/22 14:25	JCR	TAL PIT

Client Sample ID: SW-6

Lab Sample ID: 180-137407-24

Date Collected: 04/27/22 09:52

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			399785	05/24/22 20:44	LWM	TAL PIT
Dissolved	Prep	3005A			25 mL	25 mL	398378	05/11/22 09:37	EMR	TAL PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			399007	05/14/22 12:47	RSK	TAL PIT
Dissolved	Prep	7470A			50 mL	50 mL	398320	05/11/22 05:51	RJR	TAL PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGY		1			398485	05/11/22 17:35	RJR	TAL PIT
Dissolved	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	397377	05/02/22 14:25	JCR	TAL PIT

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-9

Lab Sample ID: 180-137407-25

Date Collected: 04/27/22 12:21

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			399785	05/25/22 02:41	LWM	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	25 mL	398378	05/11/22 09:37	EMR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			399007	05/14/22 12:50	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	398320	05/11/22 05:51	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			398485	05/11/22 17:39	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	397377	05/02/22 14:25	JCR	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-9

Lab Sample ID: 180-137407-26

Date Collected: 04/27/22 12:29

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			399785	05/25/22 04:54	LWM	TAL PIT
Instrument ID: CHICS2100B										
Dissolved	Prep	3005A			25 mL	25 mL	398378	05/11/22 09:37	EMR	TAL PIT
Dissolved	Analysis	EPA 6020B		1			399007	05/14/22 12:57	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	7470A			50 mL	50 mL	398320	05/11/22 05:51	RJR	TAL PIT
Dissolved	Analysis	EPA 7470A		1			398485	05/11/22 17:40	RJR	TAL PIT
Instrument ID: HGY										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	397389	05/02/22 15:30	JCR	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-9

Lab Sample ID: 180-137407-27

Date Collected: 04/27/22 12:42

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			399785	05/25/22 03:55	LWM	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	25 mL	398378	05/11/22 09:37	EMR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			399007	05/14/22 13:08	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	398320	05/11/22 05:51	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			398485	05/11/22 17:41	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	397389	05/02/22 15:30	JCR	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-9

Lab Sample ID: 180-137407-28

Date Collected: 04/27/22 12:52

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			399785	05/25/22 04:25	LWM	TAL PIT
Dissolved	Prep	3005A			25 mL	25 mL	398378	05/11/22 09:37	EMR	TAL PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			399007	05/14/22 13:12	RSK	TAL PIT
Dissolved	Prep	7470A			50 mL	50 mL	398320	05/11/22 05:51	RJR	TAL PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGY		1			398485	05/11/22 17:42	RJR	TAL PIT
Dissolved	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	397389	05/02/22 15:30	JCR	TAL PIT

Client Sample ID: SW-10

Lab Sample ID: 180-137407-29

Date Collected: 04/27/22 11:31

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0 Instrument ID: CHICS2100B		1			399785	05/25/22 02:11	LWM	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	398378	05/11/22 09:37	EMR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			399007	05/14/22 13:16	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	398320	05/11/22 05:51	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			398485	05/11/22 17:43	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	397389	05/02/22 15:30	JCR	TAL PIT

Client Sample ID: SW-10

Lab Sample ID: 180-137407-30

Date Collected: 04/27/22 11:45

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			399785	05/25/22 02:26	LWM	TAL PIT
Dissolved	Prep	3005A			25 mL	25 mL	398378	05/11/22 09:37	EMR	TAL PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			399007	05/14/22 13:19	RSK	TAL PIT
Dissolved	Prep	7470A			50 mL	50 mL	398320	05/11/22 05:51	RJR	TAL PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGY		1			398485	05/11/22 17:44	RJR	TAL PIT
Dissolved	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	397389	05/02/22 15:30	JCR	TAL PIT

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: DUP-02
Date Collected: 04/27/22 10:31
Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-31
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	300.0		1			399785	05/24/22 22:58	LWM	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	25 mL	398378	05/11/22 09:37	EMR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			399007	05/14/22 13:23	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	398320	05/11/22 05:51	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			398485	05/11/22 17:45	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	397389	05/02/22 15:30	JCR	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: DUP-02
Date Collected: 04/27/22 10:45
Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-32
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			399785	05/24/22 23:13	LWM	TAL PIT
Instrument ID: CHICS2100B										
Dissolved	Prep	3005A			25 mL	25 mL	398378	05/11/22 09:37	EMR	TAL PIT
Dissolved	Analysis	EPA 6020B		1			399007	05/14/22 13:27	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	7470A			50 mL	50 mL	398320	05/11/22 05:51	RJR	TAL PIT
Dissolved	Analysis	EPA 7470A		1			398485	05/11/22 17:46	RJR	TAL PIT
Instrument ID: HGY										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	397389	05/02/22 15:30	JCR	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-11
Date Collected: 04/27/22 10:58
Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-33
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	300.0		1			399785	05/24/22 23:42	LWM	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	25 mL	398378	05/11/22 09:37	EMR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			399007	05/14/22 13:30	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	398320	05/11/22 05:51	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			398485	05/11/22 17:47	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	397389	05/02/22 15:30	JCR	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-11
Date Collected: 04/27/22 11:06
Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-34
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			399785	05/24/22 23:57	LWM	TAL PIT
Dissolved	Prep	3005A			25 mL	25 mL	398378	05/11/22 09:37	EMR	TAL PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			399007	05/14/22 13:34	RSK	TAL PIT
Dissolved	Prep	7470A			50 mL	50 mL	398320	05/11/22 05:51	RJR	TAL PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGY		1			398485	05/11/22 17:48	RJR	TAL PIT
Dissolved	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	397389	05/02/22 15:30	JCR	TAL PIT

Client Sample ID: SW-12
Date Collected: 04/27/22 10:30
Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-35
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	300.0 Instrument ID: CHICS2100B		1			399785	05/24/22 22:43	LWM	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	398378	05/11/22 09:37	EMR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			399007	05/14/22 13:37	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	398320	05/11/22 05:51	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			398485	05/11/22 17:52	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	397389	05/02/22 15:30	JCR	TAL PIT

Client Sample ID: SW-12
Date Collected: 04/27/22 10:39
Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-36
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			399785	05/25/22 01:26	LWM	TAL PIT
Dissolved	Prep	3005A			25 mL	25 mL	398381	05/11/22 09:49	EMR	TAL PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			398761	05/13/22 13:41	RSK	TAL PIT
Dissolved	Prep	7470A			50 mL	50 mL	398320	05/11/22 05:51	RJR	TAL PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGY		1			398485	05/11/22 17:54	RJR	TAL PIT
Dissolved	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	397389	05/02/22 15:30	JCR	TAL PIT

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-13
Date Collected: 04/27/22 12:21
Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-37
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	300.0		1			399785	05/25/22 02:55	LWM	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	25 mL	398381	05/11/22 09:49	EMR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			398761	05/13/22 13:59	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	398321	05/11/22 05:53	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			398485	05/11/22 17:57	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	397389	05/02/22 15:30	JCR	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-13
Date Collected: 04/27/22 12:33
Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-38
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			399785	05/25/22 03:10	LWM	TAL PIT
Instrument ID: CHICS2100B										
Dissolved	Prep	3005A			25 mL	25 mL	398381	05/11/22 09:49	EMR	TAL PIT
Dissolved	Analysis	EPA 6020B		1			398761	05/13/22 14:03	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	7470A			50 mL	50 mL	398321	05/11/22 05:53	RJR	TAL PIT
Dissolved	Analysis	EPA 7470A		1			398485	05/11/22 18:00	RJR	TAL PIT
Instrument ID: HGY										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	397389	05/02/22 15:30	JCR	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-14
Date Collected: 04/27/22 12:55
Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-39
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	300.0		1			399785	05/25/22 04:39	LWM	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	25 mL	398381	05/11/22 09:49	EMR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			398761	05/13/22 14:06	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	398321	05/11/22 05:53	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			398485	05/11/22 18:01	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	397389	05/02/22 15:30	JCR	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-14
Date Collected: 04/27/22 13:16
Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-40
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			399785	05/25/22 06:09	LWM	TAL PIT
Dissolved	Prep	3005A			25 mL	25 mL	398381	05/11/22 09:49	EMR	TAL PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			398761	05/13/22 14:17	RSK	TAL PIT
Dissolved	Prep	7470A			50 mL	50 mL	398321	05/11/22 05:53	RJR	TAL PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGY		1			398485	05/11/22 18:02	RJR	TAL PIT
Dissolved	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	397389	05/02/22 15:30	JCR	TAL PIT

Client Sample ID: SW-15
Date Collected: 04/27/22 13:43
Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-41
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	300.0 Instrument ID: CHIC2100A		1			399784	05/24/22 20:47	LWM	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	398381	05/11/22 09:49	EMR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			398761	05/13/22 14:21	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	398321	05/11/22 05:53	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			398485	05/11/22 18:06	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	397389	05/02/22 15:30	JCR	TAL PIT

Client Sample ID: SW-15
Date Collected: 04/27/22 14:04
Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-42
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			399784	05/24/22 21:02	LWM	TAL PIT
Dissolved	Prep	3005A			25 mL	25 mL	398381	05/11/22 09:49	EMR	TAL PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			398761	05/13/22 14:25	RSK	TAL PIT
Dissolved	Prep	7470A			50 mL	50 mL	398321	05/11/22 05:53	RJR	TAL PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGY		1			398485	05/11/22 18:07	RJR	TAL PIT
Dissolved	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	397389	05/02/22 15:30	JCR	TAL PIT

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: DUP-03
Date Collected: 04/27/22 12:43
Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-43
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	300.0		1			399785	05/25/22 04:10	LWM	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	25 mL	398381	05/11/22 09:49	EMR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			398761	05/13/22 14:28	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	398321	05/11/22 05:53	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			398485	05/11/22 18:08	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	397389	05/02/22 15:30	JCR	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: DUP-03
Date Collected: 04/27/22 13:04
Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-44
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			399785	05/25/22 05:39	LWM	TAL PIT
Instrument ID: CHICS2100B										
Dissolved	Prep	3005A			25 mL	25 mL	398381	05/11/22 09:49	EMR	TAL PIT
Dissolved	Analysis	EPA 6020B		1			398761	05/13/22 14:32	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	7470A			50 mL	50 mL	398321	05/11/22 05:53	RJR	TAL PIT
Dissolved	Analysis	EPA 7470A		1			398485	05/11/22 18:09	RJR	TAL PIT
Instrument ID: HGY										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	397389	05/02/22 15:30	JCR	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-16
Date Collected: 04/27/22 18:49
Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-45
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	300.0		1			399784	05/25/22 01:15	LWM	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	398381	05/11/22 09:49	EMR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			398761	05/13/22 14:35	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	398321	05/11/22 05:53	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			398485	05/11/22 18:10	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	397389	05/02/22 15:30	JCR	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-16

Date Collected: 04/27/22 19:02

Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-46

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			399784	05/25/22 02:29	LWM	TAL PIT
Instrument ID: CHIC2100A										
Dissolved	Prep	3005A			25 mL	25 mL	398381	05/11/22 09:49	EMR	TAL PIT
Dissolved	Analysis	EPA 6020B		1			398761	05/13/22 14:39	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	7470A			50 mL	50 mL	398321	05/11/22 05:53	RJR	TAL PIT
Dissolved	Analysis	EPA 7470A		1			398485	05/11/22 18:11	RJR	TAL PIT
Instrument ID: HGY										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	397520	05/03/22 15:30	JCR	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-17

Date Collected: 04/27/22 10:06

Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-47

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	300.0		1			399785	05/24/22 20:14	LWM	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	25 mL	398381	05/11/22 09:49	EMR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			398761	05/13/22 14:43	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	398321	05/11/22 05:53	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			398485	05/11/22 18:12	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	397520	05/03/22 15:30	JCR	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-17

Date Collected: 04/27/22 10:23

Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-48

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			399785	05/24/22 22:13	LWM	TAL PIT
Instrument ID: CHICS2100B										
Dissolved	Prep	3005A			25 mL	25 mL	398381	05/11/22 09:49	EMR	TAL PIT
Dissolved	Analysis	EPA 6020B		1			398761	05/13/22 14:46	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	7470A			50 mL	50 mL	398321	05/11/22 05:53	RJR	TAL PIT
Dissolved	Analysis	EPA 7470A		1			398485	05/11/22 18:14	RJR	TAL PIT
Instrument ID: HGY										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	397520	05/03/22 15:30	JCR	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: EB-01
Date Collected: 04/27/22 07:58
Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-49
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	300.0		1			399784	05/24/22 17:37	LWM	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	398381	05/11/22 09:49	EMR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			398761	05/13/22 14:57	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	398321	05/11/22 05:53	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			398485	05/11/22 18:15	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	397520	05/03/22 15:30	JCR	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: EB-02
Date Collected: 04/27/22 16:17
Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-50
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	300.0		1			399784	05/24/22 21:47	LWM	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	398381	05/11/22 09:49	EMR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			398761	05/13/22 15:01	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	398321	05/11/22 05:53	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			398485	05/11/22 18:16	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	397520	05/03/22 15:30	JCR	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: FB-01
Date Collected: 04/27/22 08:06
Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-51
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	300.0		1			399784	05/24/22 17:51	LWM	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	398381	05/11/22 09:49	EMR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			398761	05/13/22 15:05	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	398321	05/11/22 05:53	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			398485	05/11/22 18:20	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	397520	05/03/22 15:30	JCR	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: FB-02

Lab Sample ID: 180-137407-52

Date Collected: 04/27/22 16:11

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			399784	05/24/22 21:32	LWM	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	398381	05/11/22 09:49	EMR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			398761	05/13/22 15:08	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	398321	05/11/22 05:53	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			398485	05/11/22 18:21	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	397520	05/03/22 15:30	JCR	TAL PIT
Instrument ID: NOEQUIP										

Laboratory References:

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

Analyst References:

Lab: TAL PIT

Batch Type: Prep

EMR = Elizabeth Rarick

NAF = Nicholas Frankos

RJR = Ron Rosenbaum

Batch Type: Analysis

JCR = Jessica Rodgers

LWM = Larry Matko

RJR = Ron Rosenbaum

RSK = Robert Kurtz

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-1
 Date Collected: 04/27/22 17:36
 Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-1
 Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		1.0	0.71	mg/L			05/24/22 22:17	1
Fluoride	0.033	J	0.20	0.026	mg/L			05/24/22 22:17	1
Sulfate	16		1.0	0.76	mg/L			05/24/22 22:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		05/11/22 10:59	05/13/22 16:21	1
Arsenic	0.00099	J	0.0010	0.00028	mg/L		05/11/22 10:59	05/13/22 16:21	1
Barium	0.019		0.010	0.0031	mg/L		05/11/22 10:59	05/13/22 16:21	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		05/11/22 10:59	05/13/22 16:21	1
Boron	0.089		0.080	0.060	mg/L		05/11/22 10:59	05/13/22 16:21	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		05/11/22 10:59	05/13/22 16:21	1
Calcium	4.2		0.50	0.13	mg/L		05/11/22 10:59	05/13/22 16:21	1
Chromium	<0.0015		0.0020	0.0015	mg/L		05/11/22 10:59	05/13/22 16:21	1
Cobalt	0.00041	J	0.0025	0.00026	mg/L		05/11/22 10:59	05/13/22 16:21	1
Lead	0.00070	J	0.0010	0.00017	mg/L		05/11/22 10:59	05/13/22 16:21	1
Lithium	0.0030	J	0.0050	0.00083	mg/L		05/11/22 10:59	05/13/22 16:21	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		05/11/22 10:59	05/13/22 16:21	1
Selenium	<0.00074		0.0050	0.00074	mg/L		05/11/22 10:59	05/13/22 16:21	1
Thallium	<0.00047		0.0010	0.00047	mg/L		05/11/22 10:59	05/13/22 16:21	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:49	05/11/22 16:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	260		10	10	mg/L			05/02/22 14:23	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-1
 Date Collected: 04/27/22 17:43
 Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-2
 Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	110		1.0	0.71	mg/L			05/25/22 00:15	1
Fluoride, Dissolved	0.092	J	0.10	0.026	mg/L			05/25/22 00:15	1
Sulfate, Dissolved	18		1.0	0.76	mg/L			05/25/22 00:15	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00051		0.0020	0.00051	mg/L		05/11/22 10:59	05/13/22 16:25	1
Arsenic, Dissolved	0.00062	J	0.0010	0.00028	mg/L		05/11/22 10:59	05/13/22 16:25	1
Barium, Dissolved	0.017		0.010	0.0031	mg/L		05/11/22 10:59	05/13/22 16:25	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		05/11/22 10:59	05/13/22 16:25	1
Boron, Dissolved	0.068	J	0.080	0.060	mg/L		05/11/22 10:59	05/13/22 16:25	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		05/11/22 10:59	05/13/22 16:25	1
Calcium, Dissolved	4.1		0.50	0.13	mg/L		05/11/22 10:59	05/13/22 16:25	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		05/11/22 10:59	05/13/22 16:25	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		05/11/22 10:59	05/13/22 16:25	1
Lead, Dissolved	0.00020	J	0.0010	0.00017	mg/L		05/11/22 10:59	05/13/22 16:25	1
Lithium, Dissolved	0.0020	J	0.0050	0.00083	mg/L		05/11/22 10:59	05/13/22 16:25	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		05/11/22 10:59	05/13/22 16:25	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		05/11/22 10:59	05/13/22 16:25	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		05/11/22 10:59	05/13/22 16:25	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:49	05/11/22 17:01	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	260		10	10	mg/L			05/02/22 14:23	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-1
 Date Collected: 04/27/22 17:51
 Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-3
 Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		1.0	0.71	mg/L			05/25/22 00:30	1
Fluoride	0.041	J	0.20	0.026	mg/L			05/25/22 00:30	1
Sulfate	17		1.0	0.76	mg/L			05/25/22 00:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		05/11/22 10:59	05/13/22 16:28	1
Arsenic	0.00079	J	0.0010	0.00028	mg/L		05/11/22 10:59	05/13/22 16:28	1
Barium	0.019		0.010	0.0031	mg/L		05/11/22 10:59	05/13/22 16:28	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		05/11/22 10:59	05/13/22 16:28	1
Boron	0.067	J	0.080	0.060	mg/L		05/11/22 10:59	05/13/22 16:28	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		05/11/22 10:59	05/13/22 16:28	1
Calcium	4.0		0.50	0.13	mg/L		05/11/22 10:59	05/13/22 16:28	1
Chromium	<0.0015		0.0020	0.0015	mg/L		05/11/22 10:59	05/13/22 16:28	1
Cobalt	0.00042	J	0.0025	0.00026	mg/L		05/11/22 10:59	05/13/22 16:28	1
Lead	0.00050	J	0.0010	0.00017	mg/L		05/11/22 10:59	05/13/22 16:28	1
Lithium	0.0023	J	0.0050	0.00083	mg/L		05/11/22 10:59	05/13/22 16:28	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		05/11/22 10:59	05/13/22 16:28	1
Selenium	<0.00074		0.0050	0.00074	mg/L		05/11/22 10:59	05/13/22 16:28	1
Thallium	<0.00047		0.0010	0.00047	mg/L		05/11/22 10:59	05/13/22 16:28	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:49	05/11/22 17:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	260		10	10	mg/L			05/02/22 14:23	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-1
 Date Collected: 04/27/22 17:57
 Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-4
 Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	110		1.0	0.71	mg/L			05/25/22 00:45	1
Fluoride, Dissolved	0.033	J	0.10	0.026	mg/L			05/25/22 00:45	1
Sulfate, Dissolved	16		1.0	0.76	mg/L			05/25/22 00:45	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00051		0.0020	0.00051	mg/L		05/11/22 10:59	05/13/22 16:32	1
Arsenic, Dissolved	0.00063	J	0.0010	0.00028	mg/L		05/11/22 10:59	05/13/22 16:32	1
Barium, Dissolved	0.018		0.010	0.0031	mg/L		05/11/22 10:59	05/13/22 16:32	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		05/11/22 10:59	05/13/22 16:32	1
Boron, Dissolved	0.068	J	0.080	0.060	mg/L		05/11/22 10:59	05/13/22 16:32	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		05/11/22 10:59	05/13/22 16:32	1
Calcium, Dissolved	4.6		0.50	0.13	mg/L		05/11/22 10:59	05/13/22 16:32	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		05/11/22 10:59	05/13/22 16:32	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		05/11/22 10:59	05/13/22 16:32	1
Lead, Dissolved	0.00021	J	0.0010	0.00017	mg/L		05/11/22 10:59	05/13/22 16:32	1
Lithium, Dissolved	0.0021	J	0.0050	0.00083	mg/L		05/11/22 10:59	05/13/22 16:32	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		05/11/22 10:59	05/13/22 16:32	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		05/11/22 10:59	05/13/22 16:32	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		05/11/22 10:59	05/13/22 16:32	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:49	05/11/22 17:03	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	260		10	10	mg/L			05/02/22 14:23	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-2

Lab Sample ID: 180-137407-5

Date Collected: 04/27/22 16:49

Matrix: Water

Date Received: 04/29/22 15:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110	F1	1.0	0.71	mg/L			05/24/22 23:31	1
Fluoride	0.032	J	0.20	0.026	mg/L			05/24/22 23:31	1
Sulfate	17		1.0	0.76	mg/L			05/24/22 23:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		05/11/22 10:59	05/13/22 16:36	1
Arsenic	0.00089	J	0.0010	0.00028	mg/L		05/11/22 10:59	05/13/22 16:36	1
Barium	0.020		0.010	0.0031	mg/L		05/11/22 10:59	05/13/22 16:36	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		05/11/22 10:59	05/13/22 16:36	1
Boron	0.066	J	0.080	0.060	mg/L		05/11/22 10:59	05/13/22 16:36	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		05/11/22 10:59	05/13/22 16:36	1
Calcium	4.2		0.50	0.13	mg/L		05/11/22 10:59	05/13/22 16:36	1
Chromium	<0.0015		0.0020	0.0015	mg/L		05/11/22 10:59	05/13/22 16:36	1
Cobalt	0.00041	J	0.0025	0.00026	mg/L		05/11/22 10:59	05/13/22 16:36	1
Lead	0.00054	J	0.0010	0.00017	mg/L		05/11/22 10:59	05/13/22 16:36	1
Lithium	0.0023	J	0.0050	0.00083	mg/L		05/11/22 10:59	05/13/22 16:36	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		05/11/22 10:59	05/13/22 16:36	1
Selenium	<0.00074		0.0050	0.00074	mg/L		05/11/22 10:59	05/13/22 16:36	1
Thallium	<0.00047		0.0010	0.00047	mg/L		05/11/22 10:59	05/13/22 16:36	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:49	05/11/22 17:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	260		10	10	mg/L			05/02/22 14:23	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-2

Lab Sample ID: 180-137407-6

Date Collected: 04/27/22 17:03

Matrix: Water

Date Received: 04/29/22 15:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	110		1.0	0.71	mg/L			05/24/22 22:02	1
Fluoride, Dissolved	0.033	J	0.10	0.026	mg/L			05/24/22 22:02	1
Sulfate, Dissolved	17		1.0	0.76	mg/L			05/24/22 22:02	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00051		0.0020	0.00051	mg/L		05/11/22 10:59	05/13/22 16:39	1
Arsenic, Dissolved	0.00078	J	0.0010	0.00028	mg/L		05/11/22 10:59	05/13/22 16:39	1
Barium, Dissolved	0.019		0.010	0.0031	mg/L		05/11/22 10:59	05/13/22 16:39	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		05/11/22 10:59	05/13/22 16:39	1
Boron, Dissolved	0.062	J	0.080	0.060	mg/L		05/11/22 10:59	05/13/22 16:39	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		05/11/22 10:59	05/13/22 16:39	1
Calcium, Dissolved	4.3		0.50	0.13	mg/L		05/11/22 10:59	05/13/22 16:39	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		05/11/22 10:59	05/13/22 16:39	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		05/11/22 10:59	05/13/22 16:39	1
Lead, Dissolved	0.00021	J	0.0010	0.00017	mg/L		05/11/22 10:59	05/13/22 16:39	1
Lithium, Dissolved	0.0020	J	0.0050	0.00083	mg/L		05/11/22 10:59	05/13/22 16:39	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		05/11/22 10:59	05/13/22 16:39	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		05/11/22 10:59	05/13/22 16:39	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		05/11/22 10:59	05/13/22 16:39	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:49	05/11/22 17:05	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	260		10	10	mg/L			05/02/22 14:23	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-2

Lab Sample ID: 180-137407-7

Date Collected: 04/27/22 17:13

Matrix: Water

Date Received: 04/29/22 15:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		1.0	0.71	mg/L			05/25/22 02:14	1
Fluoride	0.034	J	0.20	0.026	mg/L			05/25/22 02:14	1
Sulfate	18		1.0	0.76	mg/L			05/25/22 02:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		05/11/22 10:59	05/13/22 16:43	1
Arsenic	0.00093	J	0.0010	0.00028	mg/L		05/11/22 10:59	05/13/22 16:43	1
Barium	0.017		0.010	0.0031	mg/L		05/11/22 10:59	05/13/22 16:43	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		05/11/22 10:59	05/13/22 16:43	1
Boron	0.063	J	0.080	0.060	mg/L		05/11/22 10:59	05/13/22 16:43	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		05/11/22 10:59	05/13/22 16:43	1
Calcium	4.1		0.50	0.13	mg/L		05/11/22 10:59	05/13/22 16:43	1
Chromium	<0.0015		0.0020	0.0015	mg/L		05/11/22 10:59	05/13/22 16:43	1
Cobalt	0.00041	J	0.0025	0.00026	mg/L		05/11/22 10:59	05/13/22 16:43	1
Lead	0.00059	J	0.0010	0.00017	mg/L		05/11/22 10:59	05/13/22 16:43	1
Lithium	0.0024	J	0.0050	0.00083	mg/L		05/11/22 10:59	05/13/22 16:43	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		05/11/22 10:59	05/13/22 16:43	1
Selenium	<0.00074		0.0050	0.00074	mg/L		05/11/22 10:59	05/13/22 16:43	1
Thallium	<0.00047		0.0010	0.00047	mg/L		05/11/22 10:59	05/13/22 16:43	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:49	05/11/22 17:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	280		10	10	mg/L			05/02/22 14:25	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-2

Lab Sample ID: 180-137407-8

Date Collected: 04/27/22 17:21

Matrix: Water

Date Received: 04/29/22 15:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	120		1.0	0.71	mg/L			05/25/22 01:00	1
Fluoride, Dissolved	0.033	J	0.10	0.026	mg/L			05/25/22 01:00	1
Sulfate, Dissolved	18		1.0	0.76	mg/L			05/25/22 01:00	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00051		0.0020	0.00051	mg/L		05/11/22 10:59	05/13/22 16:46	1
Arsenic, Dissolved	0.00065	J	0.0010	0.00028	mg/L		05/11/22 10:59	05/13/22 16:46	1
Barium, Dissolved	0.015		0.010	0.0031	mg/L		05/11/22 10:59	05/13/22 16:46	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		05/11/22 10:59	05/13/22 16:46	1
Boron, Dissolved	0.061	J	0.080	0.060	mg/L		05/11/22 10:59	05/13/22 16:46	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		05/11/22 10:59	05/13/22 16:46	1
Calcium, Dissolved	4.2		0.50	0.13	mg/L		05/11/22 10:59	05/13/22 16:46	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		05/11/22 10:59	05/13/22 16:46	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		05/11/22 10:59	05/13/22 16:46	1
Lead, Dissolved	<0.00017		0.0010	0.00017	mg/L		05/11/22 10:59	05/13/22 16:46	1
Lithium, Dissolved	0.0021	J	0.0050	0.00083	mg/L		05/11/22 10:59	05/13/22 16:46	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		05/11/22 10:59	05/13/22 16:46	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		05/11/22 10:59	05/13/22 16:46	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		05/11/22 10:59	05/13/22 16:46	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:49	05/11/22 17:07	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	290		10	10	mg/L			05/02/22 14:25	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-3
Date Collected: 04/27/22 08:42
Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-9
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	140		1.0	0.71	mg/L			05/24/22 18:34	1
Fluoride	0.043	J	0.20	0.026	mg/L			05/24/22 18:34	1
Sulfate	22		1.0	0.76	mg/L			05/24/22 18:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00059	J	0.0020	0.00051	mg/L		05/11/22 10:59	05/13/22 16:57	1
Arsenic	0.00071	J	0.0010	0.00028	mg/L		05/11/22 10:59	05/13/22 16:57	1
Barium	0.017		0.010	0.0031	mg/L		05/11/22 10:59	05/13/22 16:57	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		05/11/22 10:59	05/13/22 16:57	1
Boron	0.072	J	0.080	0.060	mg/L		05/11/22 10:59	05/13/22 16:57	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		05/11/22 10:59	05/13/22 16:57	1
Calcium	4.3		0.50	0.13	mg/L		05/11/22 10:59	05/13/22 16:57	1
Chromium	<0.0015		0.0020	0.0015	mg/L		05/11/22 10:59	05/13/22 16:57	1
Cobalt	0.00034	J	0.0025	0.00026	mg/L		05/11/22 10:59	05/13/22 16:57	1
Lead	0.00048	J	0.0010	0.00017	mg/L		05/11/22 10:59	05/13/22 16:57	1
Lithium	0.0025	J	0.0050	0.00083	mg/L		05/11/22 10:59	05/13/22 16:57	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		05/11/22 10:59	05/13/22 16:57	1
Selenium	<0.00074		0.0050	0.00074	mg/L		05/11/22 10:59	05/13/22 16:57	1
Thallium	<0.00047		0.0010	0.00047	mg/L		05/11/22 10:59	05/13/22 16:57	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:49	05/11/22 17:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	310		10	10	mg/L			05/02/22 14:25	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-3

Lab Sample ID: 180-137407-10

Date Collected: 04/27/22 09:02

Matrix: Water

Date Received: 04/29/22 15:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	140		1.0	0.71	mg/L			05/24/22 19:33	1
Fluoride, Dissolved	0.042	J	0.10	0.026	mg/L			05/24/22 19:33	1
Sulfate, Dissolved	21		1.0	0.76	mg/L			05/24/22 19:33	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00051		0.0020	0.00051	mg/L		05/11/22 10:59	05/13/22 17:01	1
Arsenic, Dissolved	0.00092	J	0.0010	0.00028	mg/L		05/11/22 10:59	05/13/22 17:01	1
Barium, Dissolved	0.018		0.010	0.0031	mg/L		05/11/22 10:59	05/13/22 17:01	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		05/11/22 10:59	05/13/22 17:01	1
Boron, Dissolved	0.071	J	0.080	0.060	mg/L		05/11/22 10:59	05/13/22 17:01	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		05/11/22 10:59	05/13/22 17:01	1
Calcium, Dissolved	4.5		0.50	0.13	mg/L		05/11/22 10:59	05/13/22 17:01	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		05/11/22 10:59	05/13/22 17:01	1
Cobalt, Dissolved	0.00029	J	0.0025	0.00026	mg/L		05/11/22 10:59	05/13/22 17:01	1
Lead, Dissolved	0.00023	J	0.0010	0.00017	mg/L		05/11/22 10:59	05/13/22 17:01	1
Lithium, Dissolved	0.0025	J	0.0050	0.00083	mg/L		05/11/22 10:59	05/13/22 17:01	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		05/11/22 10:59	05/13/22 17:01	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		05/11/22 10:59	05/13/22 17:01	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		05/11/22 10:59	05/13/22 17:01	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:49	05/11/22 17:09	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	310		10	10	mg/L			05/02/22 14:25	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-3
 Date Collected: 04/27/22 09:20
 Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-11
 Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	140		1.0	0.71	mg/L			05/24/22 20:33	1
Fluoride	0.040	J	0.20	0.026	mg/L			05/24/22 20:33	1
Sulfate	21		1.0	0.76	mg/L			05/24/22 20:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		05/11/22 10:59	05/13/22 17:05	1
Arsenic	0.00099	J	0.0010	0.00028	mg/L		05/11/22 10:59	05/13/22 17:05	1
Barium	0.019		0.010	0.0031	mg/L		05/11/22 10:59	05/13/22 17:05	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		05/11/22 10:59	05/13/22 17:05	1
Boron	0.072	J	0.080	0.060	mg/L		05/11/22 10:59	05/13/22 17:05	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		05/11/22 10:59	05/13/22 17:05	1
Calcium	4.6		0.50	0.13	mg/L		05/11/22 10:59	05/13/22 17:05	1
Chromium	<0.0015		0.0020	0.0015	mg/L		05/11/22 10:59	05/13/22 17:05	1
Cobalt	0.00038	J	0.0025	0.00026	mg/L		05/11/22 10:59	05/13/22 17:05	1
Lead	0.00055	J	0.0010	0.00017	mg/L		05/11/22 10:59	05/13/22 17:05	1
Lithium	0.0026	J	0.0050	0.00083	mg/L		05/11/22 10:59	05/13/22 17:05	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		05/11/22 10:59	05/13/22 17:05	1
Selenium	<0.00074		0.0050	0.00074	mg/L		05/11/22 10:59	05/13/22 17:05	1
Thallium	<0.00047		0.0010	0.00047	mg/L		05/11/22 10:59	05/13/22 17:05	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:49	05/11/22 17:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	320		10	10	mg/L			05/02/22 14:25	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-3

Lab Sample ID: 180-137407-12

Date Collected: 04/27/22 09:33

Matrix: Water

Date Received: 04/29/22 15:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	130		1.0	0.71	mg/L			05/24/22 19:15	1
Fluoride, Dissolved	0.11		0.10	0.026	mg/L			05/24/22 19:15	1
Sulfate, Dissolved	19		1.0	0.76	mg/L			05/24/22 19:15	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00051		0.0020	0.00051	mg/L		05/11/22 10:59	05/13/22 17:08	1
Arsenic, Dissolved	0.00068	J	0.0010	0.00028	mg/L		05/11/22 10:59	05/13/22 17:08	1
Barium, Dissolved	0.017		0.010	0.0031	mg/L		05/11/22 10:59	05/13/22 17:08	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		05/11/22 10:59	05/13/22 17:08	1
Boron, Dissolved	0.063	J	0.080	0.060	mg/L		05/11/22 10:59	05/13/22 17:08	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		05/11/22 10:59	05/13/22 17:08	1
Calcium, Dissolved	4.3		0.50	0.13	mg/L		05/11/22 10:59	05/13/22 17:08	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		05/11/22 10:59	05/13/22 17:08	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		05/11/22 10:59	05/13/22 17:08	1
Lead, Dissolved	0.00019	J	0.0010	0.00017	mg/L		05/11/22 10:59	05/13/22 17:08	1
Lithium, Dissolved	0.0020	J	0.0050	0.00083	mg/L		05/11/22 10:59	05/13/22 17:08	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		05/11/22 10:59	05/13/22 17:08	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		05/11/22 10:59	05/13/22 17:08	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		05/11/22 10:59	05/13/22 17:08	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:49	05/11/22 17:15	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	300		10	10	mg/L			05/02/22 14:25	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-4

Lab Sample ID: 180-137407-13

Date Collected: 04/27/22 10:50

Matrix: Water

Date Received: 04/29/22 15:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	83		1.0	0.71	mg/L			05/24/22 23:28	1
Fluoride	0.15	J	0.20	0.026	mg/L			05/24/22 23:28	1
Sulfate	13		1.0	0.76	mg/L			05/24/22 23:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		05/11/22 10:59	05/13/22 17:12	1
Arsenic	0.00065	J	0.0010	0.00028	mg/L		05/11/22 10:59	05/13/22 17:12	1
Barium	0.022		0.010	0.0031	mg/L		05/11/22 10:59	05/13/22 17:12	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		05/11/22 10:59	05/13/22 17:12	1
Boron	<0.060		0.080	0.060	mg/L		05/11/22 10:59	05/13/22 17:12	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		05/11/22 10:59	05/13/22 17:12	1
Calcium	3.0		0.50	0.13	mg/L		05/11/22 10:59	05/13/22 17:12	1
Chromium	<0.0015		0.0020	0.0015	mg/L		05/11/22 10:59	05/13/22 17:12	1
Cobalt	0.00037	J	0.0025	0.00026	mg/L		05/11/22 10:59	05/13/22 17:12	1
Lead	0.00052	J	0.0010	0.00017	mg/L		05/11/22 10:59	05/13/22 17:12	1
Lithium	0.0015	J	0.0050	0.00083	mg/L		05/11/22 10:59	05/13/22 17:12	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		05/11/22 10:59	05/13/22 17:12	1
Selenium	<0.00074		0.0050	0.00074	mg/L		05/11/22 10:59	05/13/22 17:12	1
Thallium	<0.00047		0.0010	0.00047	mg/L		05/11/22 10:59	05/13/22 17:12	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:49	05/11/22 17:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	200		10	10	mg/L			05/02/22 14:25	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-4

Lab Sample ID: 180-137407-14

Date Collected: 04/27/22 11:18

Matrix: Water

Date Received: 04/29/22 15:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	85		1.0	0.71	mg/L			05/25/22 00:12	1
Fluoride, Dissolved	0.14		0.10	0.026	mg/L			05/25/22 00:12	1
Sulfate, Dissolved	13		1.0	0.76	mg/L			05/25/22 00:12	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00051		0.0020	0.00051	mg/L		05/11/22 10:59	05/13/22 17:16	1
Arsenic, Dissolved	0.00063	J	0.0010	0.00028	mg/L		05/11/22 10:59	05/13/22 17:16	1
Barium, Dissolved	0.019		0.010	0.0031	mg/L		05/11/22 10:59	05/13/22 17:16	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		05/11/22 10:59	05/13/22 17:16	1
Boron, Dissolved	<0.060		0.080	0.060	mg/L		05/11/22 10:59	05/13/22 17:16	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		05/11/22 10:59	05/13/22 17:16	1
Calcium, Dissolved	2.7		0.50	0.13	mg/L		05/11/22 10:59	05/13/22 17:16	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		05/11/22 10:59	05/13/22 17:16	1
Cobalt, Dissolved	0.00032	J	0.0025	0.00026	mg/L		05/11/22 10:59	05/13/22 17:16	1
Lead, Dissolved	0.00024	J	0.0010	0.00017	mg/L		05/11/22 10:59	05/13/22 17:16	1
Lithium, Dissolved	0.0012	J	0.0050	0.00083	mg/L		05/11/22 10:59	05/13/22 17:16	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		05/11/22 10:59	05/13/22 17:16	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		05/11/22 10:59	05/13/22 17:16	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		05/11/22 10:59	05/13/22 17:16	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:49	05/11/22 17:17	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	210		10	10	mg/L			05/02/22 14:25	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: DUP-01

Lab Sample ID: 180-137407-15

Date Collected: 04/27/22 09:50

Matrix: Water

Date Received: 04/29/22 15:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79		1.0	0.71	mg/L			05/24/22 19:30	1
Fluoride	0.056	J	0.20	0.026	mg/L			05/24/22 19:30	1
Sulfate	12		1.0	0.76	mg/L			05/24/22 19:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		05/11/22 10:59	05/13/22 17:19	1
Arsenic	0.00080	J	0.0010	0.00028	mg/L		05/11/22 10:59	05/13/22 17:19	1
Barium	0.022		0.010	0.0031	mg/L		05/11/22 10:59	05/13/22 17:19	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		05/11/22 10:59	05/13/22 17:19	1
Boron	<0.060		0.080	0.060	mg/L		05/11/22 10:59	05/13/22 17:19	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		05/11/22 10:59	05/13/22 17:19	1
Calcium	2.9		0.50	0.13	mg/L		05/11/22 10:59	05/13/22 17:19	1
Chromium	<0.0015		0.0020	0.0015	mg/L		05/11/22 10:59	05/13/22 17:19	1
Cobalt	0.00050	J	0.0025	0.00026	mg/L		05/11/22 10:59	05/13/22 17:19	1
Lead	0.00054	J	0.0010	0.00017	mg/L		05/11/22 10:59	05/13/22 17:19	1
Lithium	0.0014	J	0.0050	0.00083	mg/L		05/11/22 10:59	05/13/22 17:19	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		05/11/22 10:59	05/13/22 17:19	1
Selenium	<0.00074		0.0050	0.00074	mg/L		05/11/22 10:59	05/13/22 17:19	1
Thallium	<0.00047		0.0010	0.00047	mg/L		05/11/22 10:59	05/13/22 17:19	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:49	05/11/22 17:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	180		10	10	mg/L			05/02/22 14:25	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: DUP-01

Lab Sample ID: 180-137407-16

Date Collected: 04/27/22 10:18

Matrix: Water

Date Received: 04/29/22 15:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	86		1.0	0.71	mg/L			05/24/22 21:58	1
Fluoride, Dissolved	0.081	J	0.10	0.026	mg/L			05/24/22 21:58	1
Sulfate, Dissolved	13		1.0	0.76	mg/L			05/24/22 21:58	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00051		0.0020	0.00051	mg/L		05/11/22 09:37	05/14/22 11:52	1
Arsenic, Dissolved	0.00068	J	0.0010	0.00028	mg/L		05/11/22 09:37	05/14/22 11:52	1
Barium, Dissolved	0.022		0.010	0.0031	mg/L		05/11/22 09:37	05/14/22 11:52	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:37	05/14/22 11:52	1
Boron, Dissolved	0.088		0.080	0.060	mg/L		05/11/22 09:37	05/14/22 11:52	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:37	05/14/22 11:52	1
Calcium, Dissolved	3.0		0.50	0.13	mg/L		05/11/22 09:37	05/14/22 11:52	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:37	05/14/22 11:52	1
Cobalt, Dissolved	0.00041	J	0.0025	0.00026	mg/L		05/11/22 09:37	05/14/22 11:52	1
Lead, Dissolved	0.00042	J	0.0010	0.00017	mg/L		05/11/22 09:37	05/14/22 11:52	1
Lithium, Dissolved	0.0015	J	0.0050	0.00083	mg/L		05/11/22 09:37	05/14/22 11:52	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		05/11/22 09:37	05/14/22 11:52	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:37	05/14/22 11:52	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:37	05/14/22 11:52	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:49	05/11/22 17:19	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	200		10	10	mg/L			05/02/22 14:25	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-5

Lab Sample ID: 180-137407-17

Date Collected: 04/27/22 08:07

Matrix: Water

Date Received: 04/29/22 15:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42		1.0	0.71	mg/L			05/24/22 18:05	1
Fluoride	0.026	J	0.20	0.026	mg/L			05/24/22 18:05	1
Sulfate	6.8		1.0	0.76	mg/L			05/24/22 18:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		05/11/22 09:37	05/14/22 12:10	1
Arsenic	0.00083	J	0.0010	0.00028	mg/L		05/11/22 09:37	05/14/22 12:10	1
Barium	0.027		0.010	0.0031	mg/L		05/11/22 09:37	05/14/22 12:10	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:37	05/14/22 12:10	1
Boron	0.092		0.080	0.060	mg/L		05/11/22 09:37	05/14/22 12:10	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:37	05/14/22 12:10	1
Calcium	2.2		0.50	0.13	mg/L		05/11/22 09:37	05/14/22 12:10	1
Chromium	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:37	05/14/22 12:10	1
Cobalt	0.00066	J	0.0025	0.00026	mg/L		05/11/22 09:37	05/14/22 12:10	1
Lead	0.00078	J	0.0010	0.00017	mg/L		05/11/22 09:37	05/14/22 12:10	1
Lithium	0.0012	J	0.0050	0.00083	mg/L		05/11/22 09:37	05/14/22 12:10	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		05/11/22 09:37	05/14/22 12:10	1
Selenium	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:37	05/14/22 12:10	1
Thallium	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:37	05/14/22 12:10	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:49	05/11/22 17:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	120		10	10	mg/L			05/02/22 14:25	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-5

Lab Sample ID: 180-137407-18

Date Collected: 04/27/22 07:07

Matrix: Water

Date Received: 04/29/22 15:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	41		1.0	0.71	mg/L			05/24/22 18:48	1
Fluoride, Dissolved	<0.026		0.10	0.026	mg/L			05/24/22 18:48	1
Sulfate, Dissolved	6.2		1.0	0.76	mg/L			05/24/22 18:48	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00051		0.0020	0.00051	mg/L		05/11/22 09:37	05/14/22 12:14	1
Arsenic, Dissolved	0.00051	J	0.0010	0.00028	mg/L		05/11/22 09:37	05/14/22 12:14	1
Barium, Dissolved	0.026		0.010	0.0031	mg/L		05/11/22 09:37	05/14/22 12:14	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:37	05/14/22 12:14	1
Boron, Dissolved	<0.060		0.080	0.060	mg/L		05/11/22 09:37	05/14/22 12:14	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:37	05/14/22 12:14	1
Calcium, Dissolved	2.1		0.50	0.13	mg/L		05/11/22 09:37	05/14/22 12:14	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:37	05/14/22 12:14	1
Cobalt, Dissolved	0.00039	J	0.0025	0.00026	mg/L		05/11/22 09:37	05/14/22 12:14	1
Lead, Dissolved	<0.00017		0.0010	0.00017	mg/L		05/11/22 09:37	05/14/22 12:14	1
Lithium, Dissolved	0.0012	J	0.0050	0.00083	mg/L		05/11/22 09:37	05/14/22 12:14	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		05/11/22 09:37	05/14/22 12:14	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:37	05/14/22 12:14	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:37	05/14/22 12:14	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:49	05/11/22 17:21	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	110		10	10	mg/L			05/02/22 14:25	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-5

Lab Sample ID: 180-137407-19

Date Collected: 04/27/22 08:35

Matrix: Water

Date Received: 04/29/22 15:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42		1.0	0.71	mg/L			05/24/22 18:19	1
Fluoride	0.060	J	0.20	0.026	mg/L			05/24/22 18:19	1
Sulfate	6.8		1.0	0.76	mg/L			05/24/22 18:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		05/11/22 09:37	05/14/22 12:28	1
Arsenic	0.00062	J	0.0010	0.00028	mg/L		05/11/22 09:37	05/14/22 12:28	1
Barium	0.027		0.010	0.0031	mg/L		05/11/22 09:37	05/14/22 12:28	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:37	05/14/22 12:28	1
Boron	<0.060		0.080	0.060	mg/L		05/11/22 09:37	05/14/22 12:28	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:37	05/14/22 12:28	1
Calcium	2.1		0.50	0.13	mg/L		05/11/22 09:37	05/14/22 12:28	1
Chromium	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:37	05/14/22 12:28	1
Cobalt	0.00054	J	0.0025	0.00026	mg/L		05/11/22 09:37	05/14/22 12:28	1
Lead	0.00061	J	0.0010	0.00017	mg/L		05/11/22 09:37	05/14/22 12:28	1
Lithium	0.0012	J	0.0050	0.00083	mg/L		05/11/22 09:37	05/14/22 12:28	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		05/11/22 09:37	05/14/22 12:28	1
Selenium	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:37	05/14/22 12:28	1
Thallium	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:37	05/14/22 12:28	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:51	05/11/22 17:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	98		10	10	mg/L			05/02/22 14:25	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-5

Lab Sample ID: 180-137407-20

Date Collected: 04/27/22 07:35

Matrix: Water

Date Received: 04/29/22 15:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	45		1.0	0.71	mg/L			05/24/22 16:55	1
Fluoride, Dissolved	0.093	J	0.10	0.026	mg/L			05/24/22 16:55	1
Sulfate, Dissolved	7.7		1.0	0.76	mg/L			05/24/22 16:55	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00051		0.0020	0.00051	mg/L		05/11/22 09:37	05/14/22 12:32	1
Arsenic, Dissolved	0.00052	J	0.0010	0.00028	mg/L		05/11/22 09:37	05/14/22 12:32	1
Barium, Dissolved	0.024		0.010	0.0031	mg/L		05/11/22 09:37	05/14/22 12:32	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:37	05/14/22 12:32	1
Boron, Dissolved	<0.060		0.080	0.060	mg/L		05/11/22 09:37	05/14/22 12:32	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:37	05/14/22 12:32	1
Calcium, Dissolved	2.1		0.50	0.13	mg/L		05/11/22 09:37	05/14/22 12:32	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:37	05/14/22 12:32	1
Cobalt, Dissolved	0.00038	J	0.0025	0.00026	mg/L		05/11/22 09:37	05/14/22 12:32	1
Lead, Dissolved	0.00019	J	0.0010	0.00017	mg/L		05/11/22 09:37	05/14/22 12:32	1
Lithium, Dissolved	0.0011	J	0.0050	0.00083	mg/L		05/11/22 09:37	05/14/22 12:32	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		05/11/22 09:37	05/14/22 12:32	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:37	05/14/22 12:32	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:37	05/14/22 12:32	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:51	05/11/22 17:30	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	110		10	10	mg/L			05/02/22 14:25	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-6

Lab Sample ID: 180-137407-21

Date Collected: 04/27/22 09:19

Matrix: Water

Date Received: 04/29/22 15:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64		1.0	0.71	mg/L			05/24/22 19:48	1
Fluoride	0.073	J	0.20	0.026	mg/L			05/24/22 19:48	1
Sulfate	10		1.0	0.76	mg/L			05/24/22 19:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		05/11/22 09:37	05/14/22 12:36	1
Arsenic	0.00079	J	0.0010	0.00028	mg/L		05/11/22 09:37	05/14/22 12:36	1
Barium	0.022		0.010	0.0031	mg/L		05/11/22 09:37	05/14/22 12:36	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:37	05/14/22 12:36	1
Boron	<0.060		0.080	0.060	mg/L		05/11/22 09:37	05/14/22 12:36	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:37	05/14/22 12:36	1
Calcium	2.6		0.50	0.13	mg/L		05/11/22 09:37	05/14/22 12:36	1
Chromium	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:37	05/14/22 12:36	1
Cobalt	0.00044	J	0.0025	0.00026	mg/L		05/11/22 09:37	05/14/22 12:36	1
Lead	0.00054	J	0.0010	0.00017	mg/L		05/11/22 09:37	05/14/22 12:36	1
Lithium	0.0011	J	0.0050	0.00083	mg/L		05/11/22 09:37	05/14/22 12:36	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		05/11/22 09:37	05/14/22 12:36	1
Selenium	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:37	05/14/22 12:36	1
Thallium	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:37	05/14/22 12:36	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:51	05/11/22 17:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	150		10	10	mg/L			05/02/22 14:25	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-6

Lab Sample ID: 180-137407-22

Date Collected: 04/27/22 09:30

Matrix: Water

Date Received: 04/29/22 15:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	60		1.0	0.71	mg/L			05/24/22 19:45	1
Fluoride, Dissolved	0.055	J	0.10	0.026	mg/L			05/24/22 19:45	1
Sulfate, Dissolved	9.3		1.0	0.76	mg/L			05/24/22 19:45	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00051		0.0020	0.00051	mg/L		05/11/22 09:37	05/14/22 12:39	1
Arsenic, Dissolved	0.00050	J	0.0010	0.00028	mg/L		05/11/22 09:37	05/14/22 12:39	1
Barium, Dissolved	0.022		0.010	0.0031	mg/L		05/11/22 09:37	05/14/22 12:39	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:37	05/14/22 12:39	1
Boron, Dissolved	<0.060		0.080	0.060	mg/L		05/11/22 09:37	05/14/22 12:39	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:37	05/14/22 12:39	1
Calcium, Dissolved	2.5		0.50	0.13	mg/L		05/11/22 09:37	05/14/22 12:39	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:37	05/14/22 12:39	1
Cobalt, Dissolved	0.00035	J	0.0025	0.00026	mg/L		05/11/22 09:37	05/14/22 12:39	1
Lead, Dissolved	0.00018	J	0.0010	0.00017	mg/L		05/11/22 09:37	05/14/22 12:39	1
Lithium, Dissolved	0.0012	J	0.0050	0.00083	mg/L		05/11/22 09:37	05/14/22 12:39	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		05/11/22 09:37	05/14/22 12:39	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:37	05/14/22 12:39	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:37	05/14/22 12:39	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:51	05/11/22 17:32	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	140		10	10	mg/L			05/02/22 14:25	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-6

Lab Sample ID: 180-137407-23

Date Collected: 04/27/22 09:45

Matrix: Water

Date Received: 04/29/22 15:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55		1.0	0.71	mg/L			05/24/22 20:00	1
Fluoride	0.14	J	0.20	0.026	mg/L			05/24/22 20:00	1
Sulfate	8.4		1.0	0.76	mg/L			05/24/22 20:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		05/11/22 09:37	05/14/22 12:43	1
Arsenic	0.00068	J	0.0010	0.00028	mg/L		05/11/22 09:37	05/14/22 12:43	1
Barium	0.024		0.010	0.0031	mg/L		05/11/22 09:37	05/14/22 12:43	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:37	05/14/22 12:43	1
Boron	<0.060		0.080	0.060	mg/L		05/11/22 09:37	05/14/22 12:43	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:37	05/14/22 12:43	1
Calcium	2.5		0.50	0.13	mg/L		05/11/22 09:37	05/14/22 12:43	1
Chromium	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:37	05/14/22 12:43	1
Cobalt	0.00054	J	0.0025	0.00026	mg/L		05/11/22 09:37	05/14/22 12:43	1
Lead	0.00062	J	0.0010	0.00017	mg/L		05/11/22 09:37	05/14/22 12:43	1
Lithium	0.0013	J	0.0050	0.00083	mg/L		05/11/22 09:37	05/14/22 12:43	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		05/11/22 09:37	05/14/22 12:43	1
Selenium	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:37	05/14/22 12:43	1
Thallium	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:37	05/14/22 12:43	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:51	05/11/22 17:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	150		10	10	mg/L			05/02/22 14:25	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-6

Lab Sample ID: 180-137407-24

Date Collected: 04/27/22 09:52

Matrix: Water

Date Received: 04/29/22 15:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	58	F1	1.0	0.71	mg/L			05/24/22 20:44	1
Fluoride, Dissolved	0.15	F1	0.10	0.026	mg/L			05/24/22 20:44	1
Sulfate, Dissolved	8.9	F1	1.0	0.76	mg/L			05/24/22 20:44	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00051		0.0020	0.00051	mg/L		05/11/22 09:37	05/14/22 12:47	1
Arsenic, Dissolved	0.00061	J	0.0010	0.00028	mg/L		05/11/22 09:37	05/14/22 12:47	1
Barium, Dissolved	0.021		0.010	0.0031	mg/L		05/11/22 09:37	05/14/22 12:47	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:37	05/14/22 12:47	1
Boron, Dissolved	<0.060		0.080	0.060	mg/L		05/11/22 09:37	05/14/22 12:47	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:37	05/14/22 12:47	1
Calcium, Dissolved	2.4		0.50	0.13	mg/L		05/11/22 09:37	05/14/22 12:47	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:37	05/14/22 12:47	1
Cobalt, Dissolved	0.00040	J	0.0025	0.00026	mg/L		05/11/22 09:37	05/14/22 12:47	1
Lead, Dissolved	0.00018	J	0.0010	0.00017	mg/L		05/11/22 09:37	05/14/22 12:47	1
Lithium, Dissolved	0.0011	J	0.0050	0.00083	mg/L		05/11/22 09:37	05/14/22 12:47	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		05/11/22 09:37	05/14/22 12:47	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:37	05/14/22 12:47	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:37	05/14/22 12:47	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:51	05/11/22 17:35	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	140		10	10	mg/L			05/02/22 14:25	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-9

Lab Sample ID: 180-137407-25

Date Collected: 04/27/22 12:21

Matrix: Water

Date Received: 04/29/22 15:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84		1.0	0.71	mg/L			05/25/22 02:41	1
Fluoride	0.054	J	0.20	0.026	mg/L			05/25/22 02:41	1
Sulfate	13		1.0	0.76	mg/L			05/25/22 02:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		05/11/22 09:37	05/14/22 12:50	1
Arsenic	0.00062	J	0.0010	0.00028	mg/L		05/11/22 09:37	05/14/22 12:50	1
Barium	0.023		0.010	0.0031	mg/L		05/11/22 09:37	05/14/22 12:50	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:37	05/14/22 12:50	1
Boron	<0.060		0.080	0.060	mg/L		05/11/22 09:37	05/14/22 12:50	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:37	05/14/22 12:50	1
Calcium	3.2		0.50	0.13	mg/L		05/11/22 09:37	05/14/22 12:50	1
Chromium	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:37	05/14/22 12:50	1
Cobalt	0.00045	J	0.0025	0.00026	mg/L		05/11/22 09:37	05/14/22 12:50	1
Lead	0.00053	J	0.0010	0.00017	mg/L		05/11/22 09:37	05/14/22 12:50	1
Lithium	0.0015	J	0.0050	0.00083	mg/L		05/11/22 09:37	05/14/22 12:50	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		05/11/22 09:37	05/14/22 12:50	1
Selenium	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:37	05/14/22 12:50	1
Thallium	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:37	05/14/22 12:50	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:51	05/11/22 17:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	190		10	10	mg/L			05/02/22 14:25	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-9

Lab Sample ID: 180-137407-26

Date Collected: 04/27/22 12:29

Matrix: Water

Date Received: 04/29/22 15:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	83	F1	1.0	0.71	mg/L			05/25/22 04:54	1
Fluoride, Dissolved	0.14	F1	0.10	0.026	mg/L			05/25/22 04:54	1
Sulfate, Dissolved	13	F1	1.0	0.76	mg/L			05/25/22 04:54	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00051		0.0020	0.00051	mg/L		05/11/22 09:37	05/14/22 12:57	1
Arsenic, Dissolved	0.00067	J	0.0010	0.00028	mg/L		05/11/22 09:37	05/14/22 12:57	1
Barium, Dissolved	0.022		0.010	0.0031	mg/L		05/11/22 09:37	05/14/22 12:57	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:37	05/14/22 12:57	1
Boron, Dissolved	0.087		0.080	0.060	mg/L		05/11/22 09:37	05/14/22 12:57	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:37	05/14/22 12:57	1
Calcium, Dissolved	3.2		0.50	0.13	mg/L		05/11/22 09:37	05/14/22 12:57	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:37	05/14/22 12:57	1
Cobalt, Dissolved	0.00038	J	0.0025	0.00026	mg/L		05/11/22 09:37	05/14/22 12:57	1
Lead, Dissolved	0.00021	J	0.0010	0.00017	mg/L		05/11/22 09:37	05/14/22 12:57	1
Lithium, Dissolved	0.0014	J	0.0050	0.00083	mg/L		05/11/22 09:37	05/14/22 12:57	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		05/11/22 09:37	05/14/22 12:57	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:37	05/14/22 12:57	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:37	05/14/22 12:57	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:51	05/11/22 17:40	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	210		10	10	mg/L			05/02/22 15:30	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-9

Lab Sample ID: 180-137407-27

Date Collected: 04/27/22 12:42

Matrix: Water

Date Received: 04/29/22 15:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	93		1.0	0.71	mg/L			05/25/22 03:55	1
Fluoride	0.055	J	0.20	0.026	mg/L			05/25/22 03:55	1
Sulfate	14		1.0	0.76	mg/L			05/25/22 03:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		05/11/22 09:37	05/14/22 13:08	1
Arsenic	0.00087	J	0.0010	0.00028	mg/L		05/11/22 09:37	05/14/22 13:08	1
Barium	0.022		0.010	0.0031	mg/L		05/11/22 09:37	05/14/22 13:08	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:37	05/14/22 13:08	1
Boron	0.060	J	0.080	0.060	mg/L		05/11/22 09:37	05/14/22 13:08	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:37	05/14/22 13:08	1
Calcium	3.3		0.50	0.13	mg/L		05/11/22 09:37	05/14/22 13:08	1
Chromium	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:37	05/14/22 13:08	1
Cobalt	0.00043	J	0.0025	0.00026	mg/L		05/11/22 09:37	05/14/22 13:08	1
Lead	0.00052	J	0.0010	0.00017	mg/L		05/11/22 09:37	05/14/22 13:08	1
Lithium	0.0018	J	0.0050	0.00083	mg/L		05/11/22 09:37	05/14/22 13:08	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		05/11/22 09:37	05/14/22 13:08	1
Selenium	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:37	05/14/22 13:08	1
Thallium	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:37	05/14/22 13:08	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:51	05/11/22 17:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	200		10	10	mg/L			05/02/22 15:30	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-9

Lab Sample ID: 180-137407-28

Date Collected: 04/27/22 12:52

Matrix: Water

Date Received: 04/29/22 15:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	93		1.0	0.71	mg/L			05/25/22 04:25	1
Fluoride, Dissolved	0.17		0.10	0.026	mg/L			05/25/22 04:25	1
Sulfate, Dissolved	15		1.0	0.76	mg/L			05/25/22 04:25	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00051		0.0020	0.00051	mg/L		05/11/22 09:37	05/14/22 13:12	1
Arsenic, Dissolved	0.00071	J	0.0010	0.00028	mg/L		05/11/22 09:37	05/14/22 13:12	1
Barium, Dissolved	0.022		0.010	0.0031	mg/L		05/11/22 09:37	05/14/22 13:12	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:37	05/14/22 13:12	1
Boron, Dissolved	<0.060		0.080	0.060	mg/L		05/11/22 09:37	05/14/22 13:12	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:37	05/14/22 13:12	1
Calcium, Dissolved	3.4		0.50	0.13	mg/L		05/11/22 09:37	05/14/22 13:12	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:37	05/14/22 13:12	1
Cobalt, Dissolved	0.00036	J	0.0025	0.00026	mg/L		05/11/22 09:37	05/14/22 13:12	1
Lead, Dissolved	0.00027	J	0.0010	0.00017	mg/L		05/11/22 09:37	05/14/22 13:12	1
Lithium, Dissolved	0.0014	J	0.0050	0.00083	mg/L		05/11/22 09:37	05/14/22 13:12	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		05/11/22 09:37	05/14/22 13:12	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:37	05/14/22 13:12	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:37	05/14/22 13:12	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:51	05/11/22 17:42	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	210		10	10	mg/L			05/02/22 15:30	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-10

Lab Sample ID: 180-137407-29

Date Collected: 04/27/22 11:31

Matrix: Water

Date Received: 04/29/22 15:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65		1.0	0.71	mg/L			05/25/22 02:11	1
Fluoride	0.054	J	0.20	0.026	mg/L			05/25/22 02:11	1
Sulfate	10		1.0	0.76	mg/L			05/25/22 02:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		05/11/22 09:37	05/14/22 13:16	1
Arsenic	0.00078	J	0.0010	0.00028	mg/L		05/11/22 09:37	05/14/22 13:16	1
Barium	0.024		0.010	0.0031	mg/L		05/11/22 09:37	05/14/22 13:16	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:37	05/14/22 13:16	1
Boron	<0.060		0.080	0.060	mg/L		05/11/22 09:37	05/14/22 13:16	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:37	05/14/22 13:16	1
Calcium	2.8		0.50	0.13	mg/L		05/11/22 09:37	05/14/22 13:16	1
Chromium	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:37	05/14/22 13:16	1
Cobalt	0.00045	J	0.0025	0.00026	mg/L		05/11/22 09:37	05/14/22 13:16	1
Lead	0.00061	J	0.0010	0.00017	mg/L		05/11/22 09:37	05/14/22 13:16	1
Lithium	0.0013	J	0.0050	0.00083	mg/L		05/11/22 09:37	05/14/22 13:16	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		05/11/22 09:37	05/14/22 13:16	1
Selenium	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:37	05/14/22 13:16	1
Thallium	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:37	05/14/22 13:16	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:51	05/11/22 17:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	140		10	10	mg/L			05/02/22 15:30	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-10

Lab Sample ID: 180-137407-30

Date Collected: 04/27/22 11:45

Matrix: Water

Date Received: 04/29/22 15:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	64		1.0	0.71	mg/L			05/25/22 02:26	1
Fluoride, Dissolved	0.15		0.10	0.026	mg/L			05/25/22 02:26	1
Sulfate, Dissolved	10		1.0	0.76	mg/L			05/25/22 02:26	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00051		0.0020	0.00051	mg/L		05/11/22 09:37	05/14/22 13:19	1
Arsenic, Dissolved	0.00047	J	0.0010	0.00028	mg/L		05/11/22 09:37	05/14/22 13:19	1
Barium, Dissolved	0.022		0.010	0.0031	mg/L		05/11/22 09:37	05/14/22 13:19	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:37	05/14/22 13:19	1
Boron, Dissolved	<0.060		0.080	0.060	mg/L		05/11/22 09:37	05/14/22 13:19	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:37	05/14/22 13:19	1
Calcium, Dissolved	2.7		0.50	0.13	mg/L		05/11/22 09:37	05/14/22 13:19	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:37	05/14/22 13:19	1
Cobalt, Dissolved	0.00027	J	0.0025	0.00026	mg/L		05/11/22 09:37	05/14/22 13:19	1
Lead, Dissolved	<0.00017		0.0010	0.00017	mg/L		05/11/22 09:37	05/14/22 13:19	1
Lithium, Dissolved	0.00098	J	0.0050	0.00083	mg/L		05/11/22 09:37	05/14/22 13:19	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		05/11/22 09:37	05/14/22 13:19	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:37	05/14/22 13:19	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:37	05/14/22 13:19	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:51	05/11/22 17:44	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	170		10	10	mg/L			05/02/22 15:30	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: DUP-02

Lab Sample ID: 180-137407-31

Date Collected: 04/27/22 10:31

Matrix: Water

Date Received: 04/29/22 15:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64		1.0	0.71	mg/L			05/24/22 22:58	1
Fluoride	0.13	J	0.20	0.026	mg/L			05/24/22 22:58	1
Sulfate	10		1.0	0.76	mg/L			05/24/22 22:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		05/11/22 09:37	05/14/22 13:23	1
Arsenic	0.00078	J	0.0010	0.00028	mg/L		05/11/22 09:37	05/14/22 13:23	1
Barium	0.023		0.010	0.0031	mg/L		05/11/22 09:37	05/14/22 13:23	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:37	05/14/22 13:23	1
Boron	<0.060		0.080	0.060	mg/L		05/11/22 09:37	05/14/22 13:23	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:37	05/14/22 13:23	1
Calcium	2.8		0.50	0.13	mg/L		05/11/22 09:37	05/14/22 13:23	1
Chromium	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:37	05/14/22 13:23	1
Cobalt	0.00043	J	0.0025	0.00026	mg/L		05/11/22 09:37	05/14/22 13:23	1
Lead	0.00055	J	0.0010	0.00017	mg/L		05/11/22 09:37	05/14/22 13:23	1
Lithium	0.0012	J	0.0050	0.00083	mg/L		05/11/22 09:37	05/14/22 13:23	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		05/11/22 09:37	05/14/22 13:23	1
Selenium	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:37	05/14/22 13:23	1
Thallium	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:37	05/14/22 13:23	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:51	05/11/22 17:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	150		10	10	mg/L			05/02/22 15:30	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: DUP-02

Lab Sample ID: 180-137407-32

Date Collected: 04/27/22 10:45

Matrix: Water

Date Received: 04/29/22 15:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	65		1.0	0.71	mg/L			05/24/22 23:13	1
Fluoride, Dissolved	0.055	J	0.10	0.026	mg/L			05/24/22 23:13	1
Sulfate, Dissolved	9.9		1.0	0.76	mg/L			05/24/22 23:13	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00051		0.0020	0.00051	mg/L		05/11/22 09:37	05/14/22 13:27	1
Arsenic, Dissolved	0.00052	J	0.0010	0.00028	mg/L		05/11/22 09:37	05/14/22 13:27	1
Barium, Dissolved	0.021		0.010	0.0031	mg/L		05/11/22 09:37	05/14/22 13:27	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:37	05/14/22 13:27	1
Boron, Dissolved	<0.060		0.080	0.060	mg/L		05/11/22 09:37	05/14/22 13:27	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:37	05/14/22 13:27	1
Calcium, Dissolved	2.8		0.50	0.13	mg/L		05/11/22 09:37	05/14/22 13:27	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:37	05/14/22 13:27	1
Cobalt, Dissolved	0.00029	J	0.0025	0.00026	mg/L		05/11/22 09:37	05/14/22 13:27	1
Lead, Dissolved	<0.00017		0.0010	0.00017	mg/L		05/11/22 09:37	05/14/22 13:27	1
Lithium, Dissolved	0.0012	J	0.0050	0.00083	mg/L		05/11/22 09:37	05/14/22 13:27	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		05/11/22 09:37	05/14/22 13:27	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:37	05/14/22 13:27	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:37	05/14/22 13:27	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:51	05/11/22 17:46	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	150		10	10	mg/L			05/02/22 15:30	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-11
 Date Collected: 04/27/22 10:58
 Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-33
 Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	57		1.0	0.71	mg/L			05/24/22 23:42	1
Fluoride	0.15	J	0.20	0.026	mg/L			05/24/22 23:42	1
Sulfate	9.3		1.0	0.76	mg/L			05/24/22 23:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		05/11/22 09:37	05/14/22 13:30	1
Arsenic	0.00060	J	0.0010	0.00028	mg/L		05/11/22 09:37	05/14/22 13:30	1
Barium	0.023		0.010	0.0031	mg/L		05/11/22 09:37	05/14/22 13:30	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:37	05/14/22 13:30	1
Boron	<0.060		0.080	0.060	mg/L		05/11/22 09:37	05/14/22 13:30	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:37	05/14/22 13:30	1
Calcium	2.7		0.50	0.13	mg/L		05/11/22 09:37	05/14/22 13:30	1
Chromium	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:37	05/14/22 13:30	1
Cobalt	0.00048	J	0.0025	0.00026	mg/L		05/11/22 09:37	05/14/22 13:30	1
Lead	0.00055	J	0.0010	0.00017	mg/L		05/11/22 09:37	05/14/22 13:30	1
Lithium	0.00093	J	0.0050	0.00083	mg/L		05/11/22 09:37	05/14/22 13:30	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		05/11/22 09:37	05/14/22 13:30	1
Selenium	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:37	05/14/22 13:30	1
Thallium	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:37	05/14/22 13:30	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:51	05/11/22 17:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		10	10	mg/L			05/02/22 15:30	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-11

Lab Sample ID: 180-137407-34

Date Collected: 04/27/22 11:06

Matrix: Water

Date Received: 04/29/22 15:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	59		1.0	0.71	mg/L			05/24/22 23:57	1
Fluoride, Dissolved	0.060	J	0.10	0.026	mg/L			05/24/22 23:57	1
Sulfate, Dissolved	9.3		1.0	0.76	mg/L			05/24/22 23:57	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00051		0.0020	0.00051	mg/L		05/11/22 09:37	05/14/22 13:34	1
Arsenic, Dissolved	0.00050	J	0.0010	0.00028	mg/L		05/11/22 09:37	05/14/22 13:34	1
Barium, Dissolved	0.023		0.010	0.0031	mg/L		05/11/22 09:37	05/14/22 13:34	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:37	05/14/22 13:34	1
Boron, Dissolved	<0.060		0.080	0.060	mg/L		05/11/22 09:37	05/14/22 13:34	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:37	05/14/22 13:34	1
Calcium, Dissolved	2.5		0.50	0.13	mg/L		05/11/22 09:37	05/14/22 13:34	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:37	05/14/22 13:34	1
Cobalt, Dissolved	0.00039	J	0.0025	0.00026	mg/L		05/11/22 09:37	05/14/22 13:34	1
Lead, Dissolved	<0.00017		0.0010	0.00017	mg/L		05/11/22 09:37	05/14/22 13:34	1
Lithium, Dissolved	0.0011	J	0.0050	0.00083	mg/L		05/11/22 09:37	05/14/22 13:34	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		05/11/22 09:37	05/14/22 13:34	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:37	05/14/22 13:34	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:37	05/14/22 13:34	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:51	05/11/22 17:48	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	140		10	10	mg/L			05/02/22 15:30	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-12

Lab Sample ID: 180-137407-35

Date Collected: 04/27/22 10:30

Matrix: Water

Date Received: 04/29/22 15:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55		1.0	0.71	mg/L			05/24/22 22:43	1
Fluoride	0.055	J	0.20	0.026	mg/L			05/24/22 22:43	1
Sulfate	8.7		1.0	0.76	mg/L			05/24/22 22:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		05/11/22 09:37	05/14/22 13:37	1
Arsenic	0.00064	J	0.0010	0.00028	mg/L		05/11/22 09:37	05/14/22 13:37	1
Barium	0.025		0.010	0.0031	mg/L		05/11/22 09:37	05/14/22 13:37	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:37	05/14/22 13:37	1
Boron	<0.060		0.080	0.060	mg/L		05/11/22 09:37	05/14/22 13:37	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:37	05/14/22 13:37	1
Calcium	2.6		0.50	0.13	mg/L		05/11/22 09:37	05/14/22 13:37	1
Chromium	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:37	05/14/22 13:37	1
Cobalt	0.00043	J	0.0025	0.00026	mg/L		05/11/22 09:37	05/14/22 13:37	1
Lead	0.00053	J	0.0010	0.00017	mg/L		05/11/22 09:37	05/14/22 13:37	1
Lithium	0.0011	J	0.0050	0.00083	mg/L		05/11/22 09:37	05/14/22 13:37	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		05/11/22 09:37	05/14/22 13:37	1
Selenium	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:37	05/14/22 13:37	1
Thallium	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:37	05/14/22 13:37	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:51	05/11/22 17:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	120		10	10	mg/L			05/02/22 15:30	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-12

Lab Sample ID: 180-137407-36

Date Collected: 04/27/22 10:39

Matrix: Water

Date Received: 04/29/22 15:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	51	F1	1.0	0.71	mg/L			05/25/22 01:26	1
Fluoride, Dissolved	0.055	J	0.10	0.026	mg/L			05/25/22 01:26	1
Sulfate, Dissolved	8.1	F1	1.0	0.76	mg/L			05/25/22 01:26	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00051		0.0020	0.00051	mg/L		05/11/22 09:49	05/13/22 13:41	1
Arsenic, Dissolved	0.00082	J	0.0010	0.00028	mg/L		05/11/22 09:49	05/13/22 13:41	1
Barium, Dissolved	0.024		0.010	0.0031	mg/L		05/11/22 09:49	05/13/22 13:41	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:49	05/13/22 13:41	1
Boron, Dissolved	0.077	J	0.080	0.060	mg/L		05/11/22 09:49	05/13/22 13:41	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:49	05/13/22 13:41	1
Calcium, Dissolved	2.3		0.50	0.13	mg/L		05/11/22 09:49	05/13/22 13:41	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:49	05/13/22 13:41	1
Cobalt, Dissolved	0.00040	J	0.0025	0.00026	mg/L		05/11/22 09:49	05/13/22 13:41	1
Lead, Dissolved	0.00017	J	0.0010	0.00017	mg/L		05/11/22 09:49	05/13/22 13:41	1
Lithium, Dissolved	0.0011	J	0.0050	0.00083	mg/L		05/11/22 09:49	05/13/22 13:41	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		05/11/22 09:49	05/13/22 13:41	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:49	05/13/22 13:41	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:49	05/13/22 13:41	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:51	05/11/22 17:54	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	120		10	10	mg/L			05/02/22 15:30	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-13

Lab Sample ID: 180-137407-37

Date Collected: 04/27/22 12:21

Matrix: Water

Date Received: 04/29/22 15:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		1.0	0.71	mg/L			05/25/22 02:55	1
Fluoride	0.059	J	0.20	0.026	mg/L			05/25/22 02:55	1
Sulfate	16		1.0	0.76	mg/L			05/25/22 02:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		05/11/22 09:49	05/13/22 13:59	1
Arsenic	0.0011		0.0010	0.00028	mg/L		05/11/22 09:49	05/13/22 13:59	1
Barium	0.018		0.010	0.0031	mg/L		05/11/22 09:49	05/13/22 13:59	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:49	05/13/22 13:59	1
Boron	0.11		0.080	0.060	mg/L		05/11/22 09:49	05/13/22 13:59	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:49	05/13/22 13:59	1
Calcium	3.9		0.50	0.13	mg/L		05/11/22 09:49	05/13/22 13:59	1
Chromium	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:49	05/13/22 13:59	1
Cobalt	0.00034	J	0.0025	0.00026	mg/L		05/11/22 09:49	05/13/22 13:59	1
Lead	0.00048	J	0.0010	0.00017	mg/L		05/11/22 09:49	05/13/22 13:59	1
Lithium	0.0021	J	0.0050	0.00083	mg/L		05/11/22 09:49	05/13/22 13:59	1
Molybdenum	0.00072	J	0.015	0.00061	mg/L		05/11/22 09:49	05/13/22 13:59	1
Selenium	0.00083	J	0.0050	0.00074	mg/L		05/11/22 09:49	05/13/22 13:59	1
Thallium	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:49	05/13/22 13:59	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:53	05/11/22 17:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	260		10	10	mg/L			05/02/22 15:30	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-13

Lab Sample ID: 180-137407-38

Date Collected: 04/27/22 12:33

Matrix: Water

Date Received: 04/29/22 15:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	110		1.0	0.71	mg/L			05/25/22 03:10	1
Fluoride, Dissolved	0.18		0.10	0.026	mg/L			05/25/22 03:10	1
Sulfate, Dissolved	16		1.0	0.76	mg/L			05/25/22 03:10	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00051		0.0020	0.00051	mg/L		05/11/22 09:49	05/13/22 14:03	1
Arsenic, Dissolved	0.00071	J	0.0010	0.00028	mg/L		05/11/22 09:49	05/13/22 14:03	1
Barium, Dissolved	0.017		0.010	0.0031	mg/L		05/11/22 09:49	05/13/22 14:03	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:49	05/13/22 14:03	1
Boron, Dissolved	0.076	J	0.080	0.060	mg/L		05/11/22 09:49	05/13/22 14:03	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:49	05/13/22 14:03	1
Calcium, Dissolved	3.7		0.50	0.13	mg/L		05/11/22 09:49	05/13/22 14:03	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:49	05/13/22 14:03	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		05/11/22 09:49	05/13/22 14:03	1
Lead, Dissolved	0.00024	J	0.0010	0.00017	mg/L		05/11/22 09:49	05/13/22 14:03	1
Lithium, Dissolved	0.0021	J	0.0050	0.00083	mg/L		05/11/22 09:49	05/13/22 14:03	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		05/11/22 09:49	05/13/22 14:03	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:49	05/13/22 14:03	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:49	05/13/22 14:03	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:53	05/11/22 18:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	250		10	10	mg/L			05/02/22 15:30	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-14

Lab Sample ID: 180-137407-39

Date Collected: 04/27/22 12:55

Matrix: Water

Date Received: 04/29/22 15:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		1.0	0.71	mg/L			05/25/22 04:39	1
Fluoride	0.13	J	0.20	0.026	mg/L			05/25/22 04:39	1
Sulfate	17		1.0	0.76	mg/L			05/25/22 04:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		05/11/22 09:49	05/13/22 14:06	1
Arsenic	0.00080	J	0.0010	0.00028	mg/L		05/11/22 09:49	05/13/22 14:06	1
Barium	0.017		0.010	0.0031	mg/L		05/11/22 09:49	05/13/22 14:06	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:49	05/13/22 14:06	1
Boron	0.070	J	0.080	0.060	mg/L		05/11/22 09:49	05/13/22 14:06	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:49	05/13/22 14:06	1
Calcium	3.9		0.50	0.13	mg/L		05/11/22 09:49	05/13/22 14:06	1
Chromium	0.0089		0.0020	0.0015	mg/L		05/11/22 09:49	05/13/22 14:06	1
Cobalt	0.00030	J	0.0025	0.00026	mg/L		05/11/22 09:49	05/13/22 14:06	1
Lead	0.00042	J	0.0010	0.00017	mg/L		05/11/22 09:49	05/13/22 14:06	1
Lithium	0.0022	J	0.0050	0.00083	mg/L		05/11/22 09:49	05/13/22 14:06	1
Molybdenum	0.00091	J	0.015	0.00061	mg/L		05/11/22 09:49	05/13/22 14:06	1
Selenium	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:49	05/13/22 14:06	1
Thallium	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:49	05/13/22 14:06	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:53	05/11/22 18:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	270		10	10	mg/L			05/02/22 15:30	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-14

Lab Sample ID: 180-137407-40

Date Collected: 04/27/22 13:16

Matrix: Water

Date Received: 04/29/22 15:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	110		1.0	0.71	mg/L			05/25/22 06:09	1
Fluoride, Dissolved	0.14		0.10	0.026	mg/L			05/25/22 06:09	1
Sulfate, Dissolved	16		1.0	0.76	mg/L			05/25/22 06:09	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.00059	J	0.0020	0.00051	mg/L		05/11/22 09:49	05/13/22 14:17	1
Arsenic, Dissolved	0.00074	J	0.0010	0.00028	mg/L		05/11/22 09:49	05/13/22 14:17	1
Barium, Dissolved	0.017		0.010	0.0031	mg/L		05/11/22 09:49	05/13/22 14:17	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:49	05/13/22 14:17	1
Boron, Dissolved	0.062	J	0.080	0.060	mg/L		05/11/22 09:49	05/13/22 14:17	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:49	05/13/22 14:17	1
Calcium, Dissolved	3.6		0.50	0.13	mg/L		05/11/22 09:49	05/13/22 14:17	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:49	05/13/22 14:17	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		05/11/22 09:49	05/13/22 14:17	1
Lead, Dissolved	0.00020	J	0.0010	0.00017	mg/L		05/11/22 09:49	05/13/22 14:17	1
Lithium, Dissolved	0.0020	J	0.0050	0.00083	mg/L		05/11/22 09:49	05/13/22 14:17	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		05/11/22 09:49	05/13/22 14:17	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:49	05/13/22 14:17	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:49	05/13/22 14:17	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:53	05/11/22 18:02	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	250		10	10	mg/L			05/02/22 15:30	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-15
 Date Collected: 04/27/22 13:43
 Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-41
 Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		1.0	0.71	mg/L			05/24/22 20:47	1
Fluoride	0.041	J	0.20	0.026	mg/L			05/24/22 20:47	1
Sulfate	21		1.0	0.76	mg/L			05/24/22 20:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		05/11/22 09:49	05/13/22 14:21	1
Arsenic	0.00082	J	0.0010	0.00028	mg/L		05/11/22 09:49	05/13/22 14:21	1
Barium	0.016		0.010	0.0031	mg/L		05/11/22 09:49	05/13/22 14:21	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:49	05/13/22 14:21	1
Boron	0.071	J	0.080	0.060	mg/L		05/11/22 09:49	05/13/22 14:21	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:49	05/13/22 14:21	1
Calcium	4.6		0.50	0.13	mg/L		05/11/22 09:49	05/13/22 14:21	1
Chromium	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:49	05/13/22 14:21	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		05/11/22 09:49	05/13/22 14:21	1
Lead	0.00041	J	0.0010	0.00017	mg/L		05/11/22 09:49	05/13/22 14:21	1
Lithium	0.0020	J	0.0050	0.00083	mg/L		05/11/22 09:49	05/13/22 14:21	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		05/11/22 09:49	05/13/22 14:21	1
Selenium	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:49	05/13/22 14:21	1
Thallium	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:49	05/13/22 14:21	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:53	05/11/22 18:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	320		10	10	mg/L			05/02/22 15:30	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-15

Lab Sample ID: 180-137407-42

Date Collected: 04/27/22 14:04

Matrix: Water

Date Received: 04/29/22 15:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	150		1.0	0.71	mg/L			05/24/22 21:02	1
Fluoride, Dissolved	0.10		0.10	0.026	mg/L			05/24/22 21:02	1
Sulfate, Dissolved	21		1.0	0.76	mg/L			05/24/22 21:02	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00051		0.0020	0.00051	mg/L		05/11/22 09:49	05/13/22 14:25	1
Arsenic, Dissolved	0.00059	J	0.0010	0.00028	mg/L		05/11/22 09:49	05/13/22 14:25	1
Barium, Dissolved	0.015		0.010	0.0031	mg/L		05/11/22 09:49	05/13/22 14:25	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:49	05/13/22 14:25	1
Boron, Dissolved	0.070	J	0.080	0.060	mg/L		05/11/22 09:49	05/13/22 14:25	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:49	05/13/22 14:25	1
Calcium, Dissolved	4.3		0.50	0.13	mg/L		05/11/22 09:49	05/13/22 14:25	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:49	05/13/22 14:25	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		05/11/22 09:49	05/13/22 14:25	1
Lead, Dissolved	<0.00017		0.0010	0.00017	mg/L		05/11/22 09:49	05/13/22 14:25	1
Lithium, Dissolved	0.0022	J	0.0050	0.00083	mg/L		05/11/22 09:49	05/13/22 14:25	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		05/11/22 09:49	05/13/22 14:25	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:49	05/13/22 14:25	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:49	05/13/22 14:25	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:53	05/11/22 18:07	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	310		10	10	mg/L			05/02/22 15:30	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: DUP-03
 Date Collected: 04/27/22 12:43
 Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-43
 Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	140		1.0	0.71	mg/L			05/25/22 04:10	1
Fluoride	0.063	J	0.20	0.026	mg/L			05/25/22 04:10	1
Sulfate	19		1.0	0.76	mg/L			05/25/22 04:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		05/11/22 09:49	05/13/22 14:28	1
Arsenic	0.00068	J	0.0010	0.00028	mg/L		05/11/22 09:49	05/13/22 14:28	1
Barium	0.016		0.010	0.0031	mg/L		05/11/22 09:49	05/13/22 14:28	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:49	05/13/22 14:28	1
Boron	0.067	J	0.080	0.060	mg/L		05/11/22 09:49	05/13/22 14:28	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:49	05/13/22 14:28	1
Calcium	4.5		0.50	0.13	mg/L		05/11/22 09:49	05/13/22 14:28	1
Chromium	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:49	05/13/22 14:28	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		05/11/22 09:49	05/13/22 14:28	1
Lead	0.00038	J	0.0010	0.00017	mg/L		05/11/22 09:49	05/13/22 14:28	1
Lithium	0.0023	J	0.0050	0.00083	mg/L		05/11/22 09:49	05/13/22 14:28	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		05/11/22 09:49	05/13/22 14:28	1
Selenium	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:49	05/13/22 14:28	1
Thallium	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:49	05/13/22 14:28	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:53	05/11/22 18:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	300		10	10	mg/L			05/02/22 15:30	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: DUP-03

Lab Sample ID: 180-137407-44

Date Collected: 04/27/22 13:04

Matrix: Water

Date Received: 04/29/22 15:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	140		1.0	0.71	mg/L			05/25/22 05:39	1
Fluoride, Dissolved	0.090	J	0.10	0.026	mg/L			05/25/22 05:39	1
Sulfate, Dissolved	19		1.0	0.76	mg/L			05/25/22 05:39	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00051		0.0020	0.00051	mg/L		05/11/22 09:49	05/13/22 14:32	1
Arsenic, Dissolved	0.00051	J	0.0010	0.00028	mg/L		05/11/22 09:49	05/13/22 14:32	1
Barium, Dissolved	0.015		0.010	0.0031	mg/L		05/11/22 09:49	05/13/22 14:32	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:49	05/13/22 14:32	1
Boron, Dissolved	0.068	J	0.080	0.060	mg/L		05/11/22 09:49	05/13/22 14:32	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:49	05/13/22 14:32	1
Calcium, Dissolved	4.5		0.50	0.13	mg/L		05/11/22 09:49	05/13/22 14:32	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:49	05/13/22 14:32	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		05/11/22 09:49	05/13/22 14:32	1
Lead, Dissolved	<0.00017		0.0010	0.00017	mg/L		05/11/22 09:49	05/13/22 14:32	1
Lithium, Dissolved	0.0020	J	0.0050	0.00083	mg/L		05/11/22 09:49	05/13/22 14:32	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		05/11/22 09:49	05/13/22 14:32	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:49	05/13/22 14:32	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:49	05/13/22 14:32	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:53	05/11/22 18:09	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	290		10	10	mg/L			05/02/22 15:30	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-16

Lab Sample ID: 180-137407-45

Date Collected: 04/27/22 18:49

Matrix: Water

Date Received: 04/29/22 15:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	350		1.0	0.71	mg/L			05/25/22 01:15	1
Fluoride	0.059	J	0.20	0.026	mg/L			05/25/22 01:15	1
Sulfate	48		1.0	0.76	mg/L			05/25/22 01:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		05/11/22 09:49	05/13/22 14:35	1
Arsenic	0.00078	J	0.0010	0.00028	mg/L		05/11/22 09:49	05/13/22 14:35	1
Barium	0.016		0.010	0.0031	mg/L		05/11/22 09:49	05/13/22 14:35	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:49	05/13/22 14:35	1
Boron	0.13		0.080	0.060	mg/L		05/11/22 09:49	05/13/22 14:35	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:49	05/13/22 14:35	1
Calcium	9.5		0.50	0.13	mg/L		05/11/22 09:49	05/13/22 14:35	1
Chromium	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:49	05/13/22 14:35	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		05/11/22 09:49	05/13/22 14:35	1
Lead	0.00030	J	0.0010	0.00017	mg/L		05/11/22 09:49	05/13/22 14:35	1
Lithium	0.0046	J	0.0050	0.00083	mg/L		05/11/22 09:49	05/13/22 14:35	1
Molybdenum	0.00069	J	0.015	0.00061	mg/L		05/11/22 09:49	05/13/22 14:35	1
Selenium	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:49	05/13/22 14:35	1
Thallium	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:49	05/13/22 14:35	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:53	05/11/22 18:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	700		10	10	mg/L			05/02/22 15:30	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-16

Lab Sample ID: 180-137407-46

Date Collected: 04/27/22 19:02

Matrix: Water

Date Received: 04/29/22 15:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	370		1.0	0.71	mg/L			05/25/22 02:29	1
Fluoride, Dissolved	0.048	J	0.10	0.026	mg/L			05/25/22 02:29	1
Sulfate, Dissolved	50		1.0	0.76	mg/L			05/25/22 02:29	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00051		0.0020	0.00051	mg/L		05/11/22 09:49	05/13/22 14:39	1
Arsenic, Dissolved	0.00088	J	0.0010	0.00028	mg/L		05/11/22 09:49	05/13/22 14:39	1
Barium, Dissolved	0.015		0.010	0.0031	mg/L		05/11/22 09:49	05/13/22 14:39	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:49	05/13/22 14:39	1
Boron, Dissolved	0.13		0.080	0.060	mg/L		05/11/22 09:49	05/13/22 14:39	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:49	05/13/22 14:39	1
Calcium, Dissolved	9.5		0.50	0.13	mg/L		05/11/22 09:49	05/13/22 14:39	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:49	05/13/22 14:39	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		05/11/22 09:49	05/13/22 14:39	1
Lead, Dissolved	<0.00017		0.0010	0.00017	mg/L		05/11/22 09:49	05/13/22 14:39	1
Lithium, Dissolved	0.0043	J	0.0050	0.00083	mg/L		05/11/22 09:49	05/13/22 14:39	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		05/11/22 09:49	05/13/22 14:39	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:49	05/13/22 14:39	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:49	05/13/22 14:39	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:53	05/11/22 18:11	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	720		10	10	mg/L			05/03/22 15:30	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-17

Lab Sample ID: 180-137407-47

Date Collected: 04/27/22 10:06

Matrix: Water

Date Received: 04/29/22 15:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	410		1.0	0.71	mg/L			05/24/22 20:14	1
Fluoride	0.13	J	0.20	0.026	mg/L			05/24/22 20:14	1
Sulfate	55		1.0	0.76	mg/L			05/24/22 20:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		05/11/22 09:49	05/13/22 14:43	1
Arsenic	0.0010		0.0010	0.00028	mg/L		05/11/22 09:49	05/13/22 14:43	1
Barium	0.021		0.010	0.0031	mg/L		05/11/22 09:49	05/13/22 14:43	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:49	05/13/22 14:43	1
Boron	0.16		0.080	0.060	mg/L		05/11/22 09:49	05/13/22 14:43	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:49	05/13/22 14:43	1
Calcium	12		0.50	0.13	mg/L		05/11/22 09:49	05/13/22 14:43	1
Chromium	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:49	05/13/22 14:43	1
Cobalt	0.00033	J	0.0025	0.00026	mg/L		05/11/22 09:49	05/13/22 14:43	1
Lead	0.00020	J	0.0010	0.00017	mg/L		05/11/22 09:49	05/13/22 14:43	1
Lithium	0.0055		0.0050	0.00083	mg/L		05/11/22 09:49	05/13/22 14:43	1
Molybdenum	0.00073	J	0.015	0.00061	mg/L		05/11/22 09:49	05/13/22 14:43	1
Selenium	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:49	05/13/22 14:43	1
Thallium	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:49	05/13/22 14:43	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:53	05/11/22 18:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	840		10	10	mg/L			05/03/22 15:30	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: SW-17

Lab Sample ID: 180-137407-48

Date Collected: 04/27/22 10:23

Matrix: Water

Date Received: 04/29/22 15:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	390		1.0	0.71	mg/L			05/24/22 22:13	1
Fluoride, Dissolved	0.18		0.10	0.026	mg/L			05/24/22 22:13	1
Sulfate, Dissolved	53		1.0	0.76	mg/L			05/24/22 22:13	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00051		0.0020	0.00051	mg/L		05/11/22 09:49	05/13/22 14:46	1
Arsenic, Dissolved	0.0011		0.0010	0.00028	mg/L		05/11/22 09:49	05/13/22 14:46	1
Barium, Dissolved	0.021		0.010	0.0031	mg/L		05/11/22 09:49	05/13/22 14:46	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:49	05/13/22 14:46	1
Boron, Dissolved	0.15		0.080	0.060	mg/L		05/11/22 09:49	05/13/22 14:46	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:49	05/13/22 14:46	1
Calcium, Dissolved	12		0.50	0.13	mg/L		05/11/22 09:49	05/13/22 14:46	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:49	05/13/22 14:46	1
Cobalt, Dissolved	0.00027 J		0.0025	0.00026	mg/L		05/11/22 09:49	05/13/22 14:46	1
Lead, Dissolved	<0.00017		0.0010	0.00017	mg/L		05/11/22 09:49	05/13/22 14:46	1
Lithium, Dissolved	0.0048 J		0.0050	0.00083	mg/L		05/11/22 09:49	05/13/22 14:46	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		05/11/22 09:49	05/13/22 14:46	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:49	05/13/22 14:46	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:49	05/13/22 14:46	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:53	05/11/22 18:14	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	830		10	10	mg/L			05/03/22 15:30	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: EB-01

Lab Sample ID: 180-137407-49

Date Collected: 04/27/22 07:58

Matrix: Water

Date Received: 04/29/22 15:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.1		1.0	0.71	mg/L			05/24/22 17:37	1
Fluoride	<0.026		0.20	0.026	mg/L			05/24/22 17:37	1
Sulfate	<0.76		1.0	0.76	mg/L			05/24/22 17:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00054	J	0.0020	0.00051	mg/L		05/11/22 09:49	05/13/22 14:57	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		05/11/22 09:49	05/13/22 14:57	1
Barium	<0.0031		0.010	0.0031	mg/L		05/11/22 09:49	05/13/22 14:57	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:49	05/13/22 14:57	1
Boron	<0.060		0.080	0.060	mg/L		05/11/22 09:49	05/13/22 14:57	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:49	05/13/22 14:57	1
Calcium	<0.13		0.50	0.13	mg/L		05/11/22 09:49	05/13/22 14:57	1
Chromium	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:49	05/13/22 14:57	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		05/11/22 09:49	05/13/22 14:57	1
Lead	<0.00017		0.0010	0.00017	mg/L		05/11/22 09:49	05/13/22 14:57	1
Lithium	<0.00083		0.0050	0.00083	mg/L		05/11/22 09:49	05/13/22 14:57	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		05/11/22 09:49	05/13/22 14:57	1
Selenium	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:49	05/13/22 14:57	1
Thallium	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:49	05/13/22 14:57	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:53	05/11/22 18:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			05/03/22 15:30	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: EB-02
Date Collected: 04/27/22 16:17
Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-50
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5		1.0	0.71	mg/L			05/24/22 21:47	1
Fluoride	<0.026		0.20	0.026	mg/L			05/24/22 21:47	1
Sulfate	<0.76		1.0	0.76	mg/L			05/24/22 21:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		05/11/22 09:49	05/13/22 15:01	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		05/11/22 09:49	05/13/22 15:01	1
Barium	<0.0031		0.010	0.0031	mg/L		05/11/22 09:49	05/13/22 15:01	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:49	05/13/22 15:01	1
Boron	<0.060		0.080	0.060	mg/L		05/11/22 09:49	05/13/22 15:01	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:49	05/13/22 15:01	1
Calcium	<0.13		0.50	0.13	mg/L		05/11/22 09:49	05/13/22 15:01	1
Chromium	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:49	05/13/22 15:01	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		05/11/22 09:49	05/13/22 15:01	1
Lead	<0.00017		0.0010	0.00017	mg/L		05/11/22 09:49	05/13/22 15:01	1
Lithium	<0.00083		0.0050	0.00083	mg/L		05/11/22 09:49	05/13/22 15:01	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		05/11/22 09:49	05/13/22 15:01	1
Selenium	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:49	05/13/22 15:01	1
Thallium	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:49	05/13/22 15:01	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:53	05/11/22 18:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			05/03/22 15:30	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: FB-01
Date Collected: 04/27/22 08:06
Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-51
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.2		1.0	0.71	mg/L			05/24/22 17:51	1
Fluoride	<0.026		0.20	0.026	mg/L			05/24/22 17:51	1
Sulfate	<0.76		1.0	0.76	mg/L			05/24/22 17:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		05/11/22 09:49	05/13/22 15:05	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		05/11/22 09:49	05/13/22 15:05	1
Barium	<0.0031		0.010	0.0031	mg/L		05/11/22 09:49	05/13/22 15:05	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:49	05/13/22 15:05	1
Boron	<0.060		0.080	0.060	mg/L		05/11/22 09:49	05/13/22 15:05	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:49	05/13/22 15:05	1
Calcium	<0.13		0.50	0.13	mg/L		05/11/22 09:49	05/13/22 15:05	1
Chromium	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:49	05/13/22 15:05	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		05/11/22 09:49	05/13/22 15:05	1
Lead	<0.00017		0.0010	0.00017	mg/L		05/11/22 09:49	05/13/22 15:05	1
Lithium	<0.00083		0.0050	0.00083	mg/L		05/11/22 09:49	05/13/22 15:05	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		05/11/22 09:49	05/13/22 15:05	1
Selenium	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:49	05/13/22 15:05	1
Thallium	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:49	05/13/22 15:05	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:53	05/11/22 18:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			05/03/22 15:30	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Client Sample ID: FB-02
 Date Collected: 04/27/22 16:11
 Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-52
 Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.3		1.0	0.71	mg/L			05/24/22 21:32	1
Fluoride	0.061	J	0.20	0.026	mg/L			05/24/22 21:32	1
Sulfate	<0.76		1.0	0.76	mg/L			05/24/22 21:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		05/11/22 09:49	05/13/22 15:08	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		05/11/22 09:49	05/13/22 15:08	1
Barium	<0.0031		0.010	0.0031	mg/L		05/11/22 09:49	05/13/22 15:08	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:49	05/13/22 15:08	1
Boron	<0.060		0.080	0.060	mg/L		05/11/22 09:49	05/13/22 15:08	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:49	05/13/22 15:08	1
Calcium	0.34	J	0.50	0.13	mg/L		05/11/22 09:49	05/13/22 15:08	1
Chromium	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:49	05/13/22 15:08	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		05/11/22 09:49	05/13/22 15:08	1
Lead	<0.00017		0.0010	0.00017	mg/L		05/11/22 09:49	05/13/22 15:08	1
Lithium	<0.00083		0.0050	0.00083	mg/L		05/11/22 09:49	05/13/22 15:08	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		05/11/22 09:49	05/13/22 15:08	1
Selenium	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:49	05/13/22 15:08	1
Thallium	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:49	05/13/22 15:08	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:53	05/11/22 18:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			05/03/22 15:30	1

QC Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 180-399784/41
Matrix: Water
Analysis Batch: 399784

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			05/24/22 23:16	1
Chloride, Dissolved	<0.71		1.0	0.71	mg/L			05/24/22 23:16	1
Fluoride	<0.026		0.20	0.026	mg/L			05/24/22 23:16	1
Fluoride, Dissolved	<0.026		0.20	0.026	mg/L			05/24/22 23:16	1
Sulfate	<0.76		1.0	0.76	mg/L			05/24/22 23:16	1
Sulfate, Dissolved	<0.76		1.0	0.76	mg/L			05/24/22 23:16	1

Lab Sample ID: MB 180-399784/7
Matrix: Water
Analysis Batch: 399784

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			05/24/22 13:01	1
Chloride, Dissolved	<0.71		1.0	0.71	mg/L			05/24/22 13:01	1
Fluoride	<0.026		0.10	0.026	mg/L			05/24/22 13:01	1
Fluoride, Dissolved	<0.026		0.10	0.026	mg/L			05/24/22 13:01	1
Sulfate	<0.76		1.0	0.76	mg/L			05/24/22 13:01	1
Sulfate, Dissolved	<0.76		1.0	0.76	mg/L			05/24/22 13:01	1

Lab Sample ID: LCS 180-399784/40
Matrix: Water
Analysis Batch: 399784

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	48.8		mg/L		98	90 - 110
Chloride, Dissolved	50.0	48.8		mg/L		98	90 - 110
Fluoride	2.50	2.32		mg/L		93	90 - 110
Fluoride, Dissolved	2.50	2.32		mg/L		93	90 - 110
Sulfate	50.0	48.5		mg/L		97	90 - 110
Sulfate, Dissolved	50.0	48.5		mg/L		97	90 - 110

Lab Sample ID: LCS 180-399784/5
Matrix: Water
Analysis Batch: 399784

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	51.0		mg/L		102	90 - 110
Chloride, Dissolved	50.0	51.0		mg/L		102	90 - 110
Fluoride	2.50	2.44		mg/L		97	90 - 110
Fluoride, Dissolved	2.50	2.44		mg/L		97	90 - 110
Sulfate	50.0	50.9		mg/L		102	90 - 110
Sulfate, Dissolved	50.0	50.9		mg/L		102	90 - 110

Lab Sample ID: 180-137407-5 MS
Matrix: Water
Analysis Batch: 399784

Client Sample ID: SW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	110	F1	50.0	154	F1	mg/L		80	90 - 110

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QC Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 180-137407-5 MS
Matrix: Water
Analysis Batch: 399784

Client Sample ID: SW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.032	J	2.50	2.27		mg/L		90	90 - 110
Sulfate	17		50.0	64.0		mg/L		94	90 - 110

Lab Sample ID: 180-137407-5 MSD
Matrix: Water
Analysis Batch: 399784

Client Sample ID: SW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	110	F1	50.0	154	F1	mg/L		80	90 - 110	0	20
Fluoride	0.032	J	2.50	2.42		mg/L		95	90 - 110	6	20
Sulfate	17		50.0	64.0		mg/L		94	90 - 110	0	20

Lab Sample ID: MB 180-399785/43
Matrix: Water
Analysis Batch: 399785

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			05/25/22 01:12	1
Chloride, Dissolved	<0.71		1.0	0.71	mg/L			05/25/22 01:12	1
Fluoride	<0.026		0.10	0.026	mg/L			05/25/22 01:12	1
Fluoride, Dissolved	<0.026		0.10	0.026	mg/L			05/25/22 01:12	1
Sulfate	<0.76		1.0	0.76	mg/L			05/25/22 01:12	1
Sulfate, Dissolved	<0.76		1.0	0.76	mg/L			05/25/22 01:12	1

Lab Sample ID: MB 180-399785/7
Matrix: Water
Analysis Batch: 399785

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			05/24/22 13:09	1
Chloride, Dissolved	<0.71		1.0	0.71	mg/L			05/24/22 13:09	1
Fluoride	<0.026		0.10	0.026	mg/L			05/24/22 13:09	1
Fluoride, Dissolved	<0.026		0.10	0.026	mg/L			05/24/22 13:09	1
Sulfate	<0.76		1.0	0.76	mg/L			05/24/22 13:09	1
Sulfate, Dissolved	<0.76		1.0	0.76	mg/L			05/24/22 13:09	1

Lab Sample ID: LCS 180-399785/42
Matrix: Water
Analysis Batch: 399785

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	45.1		mg/L		90	90 - 110
Chloride, Dissolved	50.0	45.1		mg/L		90	90 - 110
Fluoride	2.50	2.30		mg/L		92	90 - 110
Fluoride, Dissolved	2.50	2.30		mg/L		92	90 - 110
Sulfate	50.0	45.0		mg/L		90	90 - 110
Sulfate, Dissolved	50.0	45.0		mg/L		90	90 - 110

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QC Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 180-399785/6
Matrix: Water
Analysis Batch: 399785

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	48.1		mg/L		96	90 - 110
Chloride, Dissolved	50.0	48.1		mg/L		96	90 - 110
Fluoride	2.50	2.46		mg/L		98	90 - 110
Fluoride, Dissolved	2.50	2.46		mg/L		98	90 - 110
Sulfate	50.0	48.3		mg/L		97	90 - 110
Sulfate, Dissolved	50.0	48.3		mg/L		97	90 - 110

Lab Sample ID: 180-137407-24 MS
Matrix: Water
Analysis Batch: 399785

Client Sample ID: SW-6
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	58	F1	50.0	96.8	F1	mg/L		77	90 - 110
Chloride, Dissolved	58	F1	50.0	96.8	F1	mg/L		77	90 - 110
Fluoride	0.15	F1	2.50	2.33	F1	mg/L		87	90 - 110
Fluoride, Dissolved	0.15	F1	2.50	2.33	F1	mg/L		87	90 - 110
Sulfate	8.9	F1	50.0	52.3	F1	mg/L		87	90 - 110
Sulfate, Dissolved	8.9	F1	50.0	52.3	F1	mg/L		87	90 - 110

Lab Sample ID: 180-137407-24 MSD
Matrix: Water
Analysis Batch: 399785

Client Sample ID: SW-6
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	58	F1	50.0	100	F1	mg/L		85	90 - 110	4	20
Chloride, Dissolved	58	F1	50.0	100	F1	mg/L		85	90 - 110	4	20
Fluoride	0.15	F1	2.50	2.40		mg/L		90	90 - 110	3	20
Fluoride, Dissolved	0.15	F1	2.50	2.40		mg/L		90	90 - 110	3	20
Sulfate	8.9	F1	50.0	54.3		mg/L		91	90 - 110	4	20
Sulfate, Dissolved	8.9	F1	50.0	54.3		mg/L		91	90 - 110	4	20

Lab Sample ID: 180-137407-36 MS
Matrix: Water
Analysis Batch: 399785

Client Sample ID: SW-12
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	51	F1	50.0	96.5		mg/L		90	90 - 110
Chloride, Dissolved	51	F1	50.0	96.5		mg/L		90	90 - 110
Fluoride	0.055	J	2.50	2.42		mg/L		94	90 - 110
Fluoride, Dissolved	0.055	J	2.50	2.42		mg/L		94	90 - 110
Sulfate	8.1	F1	50.0	54.4		mg/L		93	90 - 110
Sulfate, Dissolved	8.1	F1	50.0	54.4		mg/L		93	90 - 110

Lab Sample ID: 180-137407-36 MSD
Matrix: Water
Analysis Batch: 399785

Client Sample ID: SW-12
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	51	F1	50.0	94.3	F1	mg/L		86	90 - 110	2	20

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 180-137407-36 MSD
Matrix: Water
Analysis Batch: 399785

Client Sample ID: SW-12
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride, Dissolved	51	F1	50.0	94.3	F1	mg/L		86	90 - 110	2	20
Fluoride	0.055	J	2.50	2.34		mg/L		91	90 - 110	3	20
Fluoride, Dissolved	0.055	J	2.50	2.34		mg/L		91	90 - 110	3	20
Sulfate	8.1	F1	50.0	52.3	F1	mg/L		89	90 - 110	4	20
Sulfate, Dissolved	8.1	F1	50.0	52.3	F1	mg/L		89	90 - 110	4	20

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: 180-137407-18 MS
Matrix: Water
Analysis Batch: 399784

Client Sample ID: SW-5
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride, Dissolved	41		50.0	88.1		mg/L		94	90 - 110		
Fluoride, Dissolved	<0.026		2.50	2.41		mg/L		96	90 - 110		
Sulfate, Dissolved	6.2		50.0	55.4		mg/L		98	90 - 110		

Lab Sample ID: 180-137407-18 MSD
Matrix: Water
Analysis Batch: 399784

Client Sample ID: SW-5
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride, Dissolved	41		50.0	87.5		mg/L		93	90 - 110	1	20
Fluoride, Dissolved	<0.026		2.50	2.36		mg/L		94	90 - 110	2	20
Sulfate, Dissolved	6.2		50.0	54.4		mg/L		97	90 - 110	2	20

Lab Sample ID: 180-137407-26 MS
Matrix: Water
Analysis Batch: 399785

Client Sample ID: SW-9
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride, Dissolved	83	F1	50.0	124	F1	mg/L		83	90 - 110		
Fluoride, Dissolved	0.14	F1	2.50	2.41		mg/L		91	90 - 110		
Sulfate, Dissolved	13	F1	50.0	57.9		mg/L		90	90 - 110		

Lab Sample ID: 180-137407-26 MSD
Matrix: Water
Analysis Batch: 399785

Client Sample ID: SW-9
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride, Dissolved	83	F1	50.0	119	F1	mg/L		73	90 - 110	4	20
Fluoride, Dissolved	0.14	F1	2.50	2.29	F1	mg/L		86	90 - 110	5	20
Sulfate, Dissolved	13	F1	50.0	55.0	F1	mg/L		84	90 - 110	5	20

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

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

Lab Sample ID: MB 180-398378/1-A
Matrix: Water
Analysis Batch: 399007

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 398378

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.00051		0.0020	0.00051	mg/L		05/11/22 09:37	05/14/22 11:45	1
Antimony, Dissolved	<0.00051		0.0020	0.00051	mg/L		05/11/22 09:37	05/14/22 11:45	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		05/11/22 09:37	05/14/22 11:45	1
Arsenic, Dissolved	<0.00028		0.0010	0.00028	mg/L		05/11/22 09:37	05/14/22 11:45	1
Barium	<0.0031		0.010	0.0031	mg/L		05/11/22 09:37	05/14/22 11:45	1
Barium, Dissolved	<0.0031		0.010	0.0031	mg/L		05/11/22 09:37	05/14/22 11:45	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:37	05/14/22 11:45	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:37	05/14/22 11:45	1
Boron	<0.060		0.080	0.060	mg/L		05/11/22 09:37	05/14/22 11:45	1
Boron, Dissolved	<0.060		0.080	0.060	mg/L		05/11/22 09:37	05/14/22 11:45	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:37	05/14/22 11:45	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:37	05/14/22 11:45	1
Calcium	<0.13		0.50	0.13	mg/L		05/11/22 09:37	05/14/22 11:45	1
Calcium, Dissolved	<0.13		0.50	0.13	mg/L		05/11/22 09:37	05/14/22 11:45	1
Chromium	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:37	05/14/22 11:45	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:37	05/14/22 11:45	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		05/11/22 09:37	05/14/22 11:45	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		05/11/22 09:37	05/14/22 11:45	1
Lead	<0.00017		0.0010	0.00017	mg/L		05/11/22 09:37	05/14/22 11:45	1
Lead, Dissolved	<0.00017		0.0010	0.00017	mg/L		05/11/22 09:37	05/14/22 11:45	1
Lithium	<0.00083		0.0050	0.00083	mg/L		05/11/22 09:37	05/14/22 11:45	1
Lithium, Dissolved	<0.00083		0.0050	0.00083	mg/L		05/11/22 09:37	05/14/22 11:45	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		05/11/22 09:37	05/14/22 11:45	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		05/11/22 09:37	05/14/22 11:45	1
Selenium	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:37	05/14/22 11:45	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:37	05/14/22 11:45	1
Thallium	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:37	05/14/22 11:45	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:37	05/14/22 11:45	1

Lab Sample ID: LCS 180-398378/2-A
Matrix: Water
Analysis Batch: 399007

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 398378

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony, Dissolved	0.250	0.268		mg/L		107	80 - 120
Arsenic	1.00	1.00		mg/L		100	80 - 120
Arsenic, Dissolved	1.00	1.00		mg/L		100	80 - 120
Barium	1.00	1.01		mg/L		101	80 - 120
Barium, Dissolved	1.00	1.01		mg/L		101	80 - 120
Beryllium	0.500	0.518		mg/L		104	80 - 120
Beryllium, Dissolved	0.500	0.518		mg/L		104	80 - 120
Boron	1.25	1.17		mg/L		93	80 - 120
Boron, Dissolved	1.25	1.17		mg/L		93	80 - 120
Cadmium	0.500	0.524		mg/L		105	80 - 120
Cadmium, Dissolved	0.500	0.524		mg/L		105	80 - 120
Calcium	25.0	27.4		mg/L		109	80 - 120
Calcium, Dissolved	25.0	27.4		mg/L		109	80 - 120
Chromium	0.500	0.513		mg/L		103	80 - 120

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QC Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

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

Lab Sample ID: LCS 180-398378/2-A
Matrix: Water
Analysis Batch: 399007

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 398378

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, Dissolved	0.500	0.513		mg/L		103	80 - 120
Cobalt	0.500	0.505		mg/L		101	80 - 120
Cobalt, Dissolved	0.500	0.505		mg/L		101	80 - 120
Lead	0.500	0.521		mg/L		104	80 - 120
Lead, Dissolved	0.500	0.521		mg/L		104	80 - 120
Lithium	0.500	0.471		mg/L		94	80 - 120
Lithium, Dissolved	0.500	0.471		mg/L		94	80 - 120
Molybdenum	0.500	0.516		mg/L		103	80 - 120
Molybdenum, Dissolved	0.500	0.516		mg/L		103	80 - 120
Selenium	1.00	1.03		mg/L		103	80 - 120
Selenium, Dissolved	1.00	1.03		mg/L		103	80 - 120
Thallium	1.00	1.05		mg/L		105	80 - 120
Thallium, Dissolved	1.00	1.05		mg/L		105	80 - 120

Lab Sample ID: MB 180-398381/1-A
Matrix: Water
Analysis Batch: 398761

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 398381

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		05/11/22 09:49	05/13/22 13:23	1
Antimony, Dissolved	<0.00051		0.0020	0.00051	mg/L		05/11/22 09:49	05/13/22 13:23	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		05/11/22 09:49	05/13/22 13:23	1
Arsenic, Dissolved	<0.00028		0.0010	0.00028	mg/L		05/11/22 09:49	05/13/22 13:23	1
Barium	<0.0031		0.010	0.0031	mg/L		05/11/22 09:49	05/13/22 13:23	1
Barium, Dissolved	<0.0031		0.010	0.0031	mg/L		05/11/22 09:49	05/13/22 13:23	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:49	05/13/22 13:23	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		05/11/22 09:49	05/13/22 13:23	1
Boron	<0.060		0.080	0.060	mg/L		05/11/22 09:49	05/13/22 13:23	1
Boron, Dissolved	<0.060		0.080	0.060	mg/L		05/11/22 09:49	05/13/22 13:23	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:49	05/13/22 13:23	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		05/11/22 09:49	05/13/22 13:23	1
Calcium	<0.13		0.50	0.13	mg/L		05/11/22 09:49	05/13/22 13:23	1
Calcium, Dissolved	<0.13		0.50	0.13	mg/L		05/11/22 09:49	05/13/22 13:23	1
Chromium	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:49	05/13/22 13:23	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		05/11/22 09:49	05/13/22 13:23	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		05/11/22 09:49	05/13/22 13:23	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		05/11/22 09:49	05/13/22 13:23	1
Lead	<0.00017		0.0010	0.00017	mg/L		05/11/22 09:49	05/13/22 13:23	1
Lead, Dissolved	<0.00017		0.0010	0.00017	mg/L		05/11/22 09:49	05/13/22 13:23	1
Lithium	<0.00083		0.0050	0.00083	mg/L		05/11/22 09:49	05/13/22 13:23	1
Lithium, Dissolved	<0.00083		0.0050	0.00083	mg/L		05/11/22 09:49	05/13/22 13:23	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		05/11/22 09:49	05/13/22 13:23	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		05/11/22 09:49	05/13/22 13:23	1
Selenium	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:49	05/13/22 13:23	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		05/11/22 09:49	05/13/22 13:23	1
Thallium	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:49	05/13/22 13:23	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		05/11/22 09:49	05/13/22 13:23	1

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

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

Lab Sample ID: LCS 180-398381/2-A
Matrix: Water
Analysis Batch: 398761

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 398381

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.250	0.264		mg/L		106	80 - 120
Antimony, Dissolved	0.250	0.264		mg/L		106	80 - 120
Arsenic	1.00	1.01		mg/L		101	80 - 120
Arsenic, Dissolved	1.00	1.01		mg/L		101	80 - 120
Barium	1.00	0.999		mg/L		100	80 - 120
Barium, Dissolved	1.00	0.999		mg/L		100	80 - 120
Beryllium	0.500	0.508		mg/L		102	80 - 120
Beryllium, Dissolved	0.500	0.508		mg/L		102	80 - 120
Boron	1.25	1.13		mg/L		91	80 - 120
Boron, Dissolved	1.25	1.13		mg/L		91	80 - 120
Cadmium	0.500	0.508		mg/L		102	80 - 120
Cadmium, Dissolved	0.500	0.508		mg/L		102	80 - 120
Calcium	25.0	27.0		mg/L		108	80 - 120
Calcium, Dissolved	25.0	27.0		mg/L		108	80 - 120
Chromium	0.500	0.506		mg/L		101	80 - 120
Chromium, Dissolved	0.500	0.506		mg/L		101	80 - 120
Cobalt	0.500	0.518		mg/L		104	80 - 120
Cobalt, Dissolved	0.500	0.518		mg/L		104	80 - 120
Lead	0.500	0.513		mg/L		103	80 - 120
Lead, Dissolved	0.500	0.513		mg/L		103	80 - 120
Lithium	0.500	0.496		mg/L		99	80 - 120
Lithium, Dissolved	0.500	0.496		mg/L		99	80 - 120
Molybdenum	0.500	0.523		mg/L		105	80 - 120
Molybdenum, Dissolved	0.500	0.523		mg/L		105	80 - 120
Selenium	1.00	0.994		mg/L		99	80 - 120
Selenium, Dissolved	1.00	0.994		mg/L		99	80 - 120
Thallium	1.00	1.03		mg/L		103	80 - 120
Thallium, Dissolved	1.00	1.03		mg/L		103	80 - 120

Lab Sample ID: MB 180-398398/1-A
Matrix: Water
Analysis Batch: 398761

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 398398

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		05/11/22 10:59	05/13/22 15:19	1
Antimony, Dissolved	<0.00051		0.0020	0.00051	mg/L		05/11/22 10:59	05/13/22 15:19	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		05/11/22 10:59	05/13/22 15:19	1
Arsenic, Dissolved	<0.00028		0.0010	0.00028	mg/L		05/11/22 10:59	05/13/22 15:19	1
Barium	<0.0031		0.010	0.0031	mg/L		05/11/22 10:59	05/13/22 15:19	1
Barium, Dissolved	<0.0031		0.010	0.0031	mg/L		05/11/22 10:59	05/13/22 15:19	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		05/11/22 10:59	05/13/22 15:19	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		05/11/22 10:59	05/13/22 15:19	1
Boron	<0.060		0.080	0.060	mg/L		05/11/22 10:59	05/13/22 15:19	1
Boron, Dissolved	<0.060		0.080	0.060	mg/L		05/11/22 10:59	05/13/22 15:19	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		05/11/22 10:59	05/13/22 15:19	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		05/11/22 10:59	05/13/22 15:19	1
Calcium	<0.13		0.50	0.13	mg/L		05/11/22 10:59	05/13/22 15:19	1
Calcium, Dissolved	<0.13		0.50	0.13	mg/L		05/11/22 10:59	05/13/22 15:19	1
Chromium	<0.0015		0.0020	0.0015	mg/L		05/11/22 10:59	05/13/22 15:19	1

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QC Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

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

Lab Sample ID: MB 180-398398/1-A
Matrix: Water
Analysis Batch: 398761

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 398398

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		05/11/22 10:59	05/13/22 15:19	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		05/11/22 10:59	05/13/22 15:19	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		05/11/22 10:59	05/13/22 15:19	1
Lead	<0.00017		0.0010	0.00017	mg/L		05/11/22 10:59	05/13/22 15:19	1
Lead, Dissolved	<0.00017		0.0010	0.00017	mg/L		05/11/22 10:59	05/13/22 15:19	1
Lithium	<0.00083		0.0050	0.00083	mg/L		05/11/22 10:59	05/13/22 15:19	1
Lithium, Dissolved	<0.00083		0.0050	0.00083	mg/L		05/11/22 10:59	05/13/22 15:19	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		05/11/22 10:59	05/13/22 15:19	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		05/11/22 10:59	05/13/22 15:19	1
Selenium	<0.00074		0.0050	0.00074	mg/L		05/11/22 10:59	05/13/22 15:19	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		05/11/22 10:59	05/13/22 15:19	1
Thallium	<0.00047		0.0010	0.00047	mg/L		05/11/22 10:59	05/13/22 15:19	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		05/11/22 10:59	05/13/22 15:19	1

Lab Sample ID: LCS 180-398398/2-A
Matrix: Water
Analysis Batch: 398761

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 398398

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.250	0.273		mg/L		109	80 - 120
Antimony, Dissolved	0.250	0.273		mg/L		109	80 - 120
Arsenic	1.00	0.995		mg/L		100	80 - 120
Arsenic, Dissolved	1.00	0.995		mg/L		100	80 - 120
Barium	1.00	0.992		mg/L		99	80 - 120
Barium, Dissolved	1.00	0.992		mg/L		99	80 - 120
Beryllium	0.500	0.498		mg/L		100	80 - 120
Beryllium, Dissolved	0.500	0.498		mg/L		100	80 - 120
Boron	1.25	1.14		mg/L		91	80 - 120
Boron, Dissolved	1.25	1.14		mg/L		91	80 - 120
Cadmium	0.500	0.508		mg/L		102	80 - 120
Cadmium, Dissolved	0.500	0.508		mg/L		102	80 - 120
Calcium	25.0	25.1		mg/L		100	80 - 120
Calcium, Dissolved	25.0	25.1		mg/L		100	80 - 120
Chromium	0.500	0.505		mg/L		101	80 - 120
Chromium, Dissolved	0.500	0.505		mg/L		101	80 - 120
Cobalt	0.500	0.507		mg/L		101	80 - 120
Cobalt, Dissolved	0.500	0.507		mg/L		101	80 - 120
Lead	0.500	0.509		mg/L		102	80 - 120
Lead, Dissolved	0.500	0.509		mg/L		102	80 - 120
Lithium	0.500	0.489		mg/L		98	80 - 120
Lithium, Dissolved	0.500	0.489		mg/L		98	80 - 120
Molybdenum	0.500	0.512		mg/L		102	80 - 120
Molybdenum, Dissolved	0.500	0.512		mg/L		102	80 - 120
Selenium	1.00	1.01		mg/L		101	80 - 120
Selenium, Dissolved	1.00	1.01		mg/L		101	80 - 120
Thallium	1.00	1.02		mg/L		102	80 - 120
Thallium, Dissolved	1.00	1.02		mg/L		102	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

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

Lab Sample ID: 180-137407-16 MS

Matrix: Water

Analysis Batch: 399007

Client Sample ID: DUP-01

Prep Type: Dissolved

Prep Batch: 398378

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00051		0.250	0.265		mg/L		106	75 - 125
Antimony, Dissolved	<0.00051		0.250	0.265		mg/L		106	75 - 125
Arsenic	0.00068	J	1.00	0.936		mg/L		94	75 - 125
Arsenic, Dissolved	0.00068	J	1.00	0.936		mg/L		94	75 - 125
Barium	0.022		1.00	0.980		mg/L		96	75 - 125
Barium, Dissolved	0.022		1.00	0.980		mg/L		96	75 - 125
Beryllium	<0.00027		0.500	0.482		mg/L		96	75 - 125
Beryllium, Dissolved	<0.00027		0.500	0.482		mg/L		96	75 - 125
Boron	0.088		1.25	1.16		mg/L		86	75 - 125
Boron, Dissolved	0.088		1.25	1.16		mg/L		86	75 - 125
Cadmium	<0.00022		0.500	0.493		mg/L		99	75 - 125
Cadmium, Dissolved	<0.00022		0.500	0.493		mg/L		99	75 - 125
Calcium	3.0		25.0	29.3		mg/L		105	75 - 125
Calcium, Dissolved	3.0		25.0	29.3		mg/L		105	75 - 125
Chromium	<0.0015		0.500	0.485		mg/L		97	75 - 125
Chromium, Dissolved	<0.0015		0.500	0.485		mg/L		97	75 - 125
Cobalt	0.00041	J	0.500	0.482		mg/L		96	75 - 125
Cobalt, Dissolved	0.00041	J	0.500	0.482		mg/L		96	75 - 125
Lead	0.00042	J	0.500	0.488		mg/L		98	75 - 125
Lead, Dissolved	0.00042	J	0.500	0.488		mg/L		98	75 - 125
Lithium	0.0015	J	0.500	0.453		mg/L		90	75 - 125
Lithium, Dissolved	0.0015	J	0.500	0.453		mg/L		90	75 - 125
Molybdenum	<0.00061		0.500	0.484		mg/L		97	75 - 125
Molybdenum, Dissolved	<0.00061		0.500	0.484		mg/L		97	75 - 125
Selenium	<0.00074		1.00	0.942		mg/L		94	75 - 125
Selenium, Dissolved	<0.00074		1.00	0.942		mg/L		94	75 - 125
Thallium	<0.00047		1.00	0.982		mg/L		98	75 - 125
Thallium, Dissolved	<0.00047		1.00	0.982		mg/L		98	75 - 125

Lab Sample ID: 180-137407-16 MSD

Matrix: Water

Analysis Batch: 399007

Client Sample ID: DUP-01

Prep Type: Dissolved

Prep Batch: 398378

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.00051		0.250	0.258		mg/L		103	75 - 125	3	20
Antimony, Dissolved	<0.00051		0.250	0.258		mg/L		103	75 - 125	3	20
Arsenic	0.00068	J	1.00	0.937		mg/L		94	75 - 125	0	20
Arsenic, Dissolved	0.00068	J	1.00	0.937		mg/L		94	75 - 125	0	20
Barium	0.022		1.00	0.961		mg/L		94	75 - 125	2	20
Barium, Dissolved	0.022		1.00	0.961		mg/L		94	75 - 125	2	20
Beryllium	<0.00027		0.500	0.475		mg/L		95	75 - 125	2	20
Beryllium, Dissolved	<0.00027		0.500	0.475		mg/L		95	75 - 125	2	20
Boron	0.088		1.25	1.18		mg/L		88	75 - 125	2	20
Boron, Dissolved	0.088		1.25	1.18		mg/L		88	75 - 125	2	20
Cadmium	<0.00022		0.500	0.481		mg/L		96	75 - 125	2	20
Cadmium, Dissolved	<0.00022		0.500	0.481		mg/L		96	75 - 125	2	20
Calcium	3.0		25.0	28.6		mg/L		102	75 - 125	2	20
Calcium, Dissolved	3.0		25.0	28.6		mg/L		102	75 - 125	2	20
Chromium	<0.0015		0.500	0.479		mg/L		96	75 - 125	1	20

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QC Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

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

Lab Sample ID: 180-137407-16 MSD
Matrix: Water
Analysis Batch: 399007

Client Sample ID: DUP-01
Prep Type: Dissolved
Prep Batch: 398378

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result			Result	Qualifier				Limits		
Chromium, Dissolved	<0.0015		0.500	0.479		mg/L		96	75 - 125	1	20
Cobalt	0.00041	J	0.500	0.471		mg/L		94	75 - 125	2	20
Cobalt, Dissolved	0.00041	J	0.500	0.471		mg/L		94	75 - 125	2	20
Lead	0.00042	J	0.500	0.486		mg/L		97	75 - 125	0	20
Lead, Dissolved	0.00042	J	0.500	0.486		mg/L		97	75 - 125	0	20
Lithium	0.0015	J	0.500	0.445		mg/L		89	75 - 125	2	20
Lithium, Dissolved	0.0015	J	0.500	0.445		mg/L		89	75 - 125	2	20
Molybdenum	<0.00061		0.500	0.482		mg/L		96	75 - 125	0	20
Molybdenum, Dissolved	<0.00061		0.500	0.482		mg/L		96	75 - 125	0	20
Selenium	<0.00074		1.00	0.937		mg/L		94	75 - 125	1	20
Selenium, Dissolved	<0.00074		1.00	0.937		mg/L		94	75 - 125	1	20
Thallium	<0.00047		1.00	0.967		mg/L		97	75 - 125	2	20
Thallium, Dissolved	<0.00047		1.00	0.967		mg/L		97	75 - 125	2	20

Lab Sample ID: 180-137407-36 MS
Matrix: Water
Analysis Batch: 398761

Client Sample ID: SW-12
Prep Type: Dissolved
Prep Batch: 398381

Analyte	Sample	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	%Rec	RPD	Limit
	Result			Result	Qualifier				Limits		
Antimony	<0.00051		0.250	0.266		mg/L		106	75 - 125		
Antimony, Dissolved	<0.00051		0.250	0.266		mg/L		106	75 - 125		
Arsenic	0.00082	J	1.00	1.01		mg/L		101	75 - 125		
Arsenic, Dissolved	0.00082	J	1.00	1.01		mg/L		101	75 - 125		
Barium	0.024		1.00	1.02		mg/L		100	75 - 125		
Barium, Dissolved	0.024		1.00	1.02		mg/L		100	75 - 125		
Beryllium	<0.00027		0.500	0.504		mg/L		101	75 - 125		
Beryllium, Dissolved	<0.00027		0.500	0.504		mg/L		101	75 - 125		
Boron	0.077	J	1.25	1.15		mg/L		85	75 - 125		
Boron, Dissolved	0.077	J	1.25	1.15		mg/L		85	75 - 125		
Cadmium	<0.00022		0.500	0.505		mg/L		101	75 - 125		
Cadmium, Dissolved	<0.00022		0.500	0.505		mg/L		101	75 - 125		
Calcium	2.3		25.0	29.1		mg/L		107	75 - 125		
Calcium, Dissolved	2.3		25.0	29.1		mg/L		107	75 - 125		
Chromium	<0.0015		0.500	0.499		mg/L		100	75 - 125		
Chromium, Dissolved	<0.0015		0.500	0.499		mg/L		100	75 - 125		
Cobalt	0.00040	J	0.500	0.514		mg/L		103	75 - 125		
Cobalt, Dissolved	0.00040	J	0.500	0.514		mg/L		103	75 - 125		
Lead	0.00017	J	0.500	0.511		mg/L		102	75 - 125		
Lead, Dissolved	0.00017	J	0.500	0.511		mg/L		102	75 - 125		
Lithium	0.0011	J	0.500	0.492		mg/L		98	75 - 125		
Lithium, Dissolved	0.0011	J	0.500	0.492		mg/L		98	75 - 125		
Molybdenum	<0.00061		0.500	0.518		mg/L		104	75 - 125		
Molybdenum, Dissolved	<0.00061		0.500	0.518		mg/L		104	75 - 125		
Selenium	<0.00074		1.00	0.980		mg/L		98	75 - 125		
Selenium, Dissolved	<0.00074		1.00	0.980		mg/L		98	75 - 125		
Thallium	<0.00047		1.00	1.02		mg/L		102	75 - 125		
Thallium, Dissolved	<0.00047		1.00	1.02		mg/L		102	75 - 125		

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

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

Lab Sample ID: 180-137407-36 MSD
Matrix: Water
Analysis Batch: 398761

Client Sample ID: SW-12
Prep Type: Dissolved
Prep Batch: 398381

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD Qualifier	Unit	D	%Rec	%Rec	RPD	Limit
	Result			Result					Limits		
Antimony	<0.00051		0.250	0.264		mg/L		106	75 - 125	1	20
Antimony, Dissolved	<0.00051		0.250	0.264		mg/L		106	75 - 125	1	20
Arsenic	0.00082	J	1.00	1.00		mg/L		100	75 - 125	1	20
Arsenic, Dissolved	0.00082	J	1.00	1.00		mg/L		100	75 - 125	1	20
Barium	0.024		1.00	1.02		mg/L		100	75 - 125	1	20
Barium, Dissolved	0.024		1.00	1.02		mg/L		100	75 - 125	1	20
Beryllium	<0.00027		0.500	0.503		mg/L		101	75 - 125	0	20
Beryllium, Dissolved	<0.00027		0.500	0.503		mg/L		101	75 - 125	0	20
Boron	0.077	J	1.25	1.18		mg/L		89	75 - 125	3	20
Boron, Dissolved	0.077	J	1.25	1.18		mg/L		89	75 - 125	3	20
Cadmium	<0.00022		0.500	0.506		mg/L		101	75 - 125	0	20
Cadmium, Dissolved	<0.00022		0.500	0.506		mg/L		101	75 - 125	0	20
Calcium	2.3		25.0	28.3		mg/L		104	75 - 125	3	20
Calcium, Dissolved	2.3		25.0	28.3		mg/L		104	75 - 125	3	20
Chromium	<0.0015		0.500	0.497		mg/L		99	75 - 125	0	20
Chromium, Dissolved	<0.0015		0.500	0.497		mg/L		99	75 - 125	0	20
Cobalt	0.00040	J	0.500	0.509		mg/L		102	75 - 125	1	20
Cobalt, Dissolved	0.00040	J	0.500	0.509		mg/L		102	75 - 125	1	20
Lead	0.00017	J	0.500	0.509		mg/L		102	75 - 125	0	20
Lead, Dissolved	0.00017	J	0.500	0.509		mg/L		102	75 - 125	0	20
Lithium	0.0011	J	0.500	0.494		mg/L		99	75 - 125	0	20
Lithium, Dissolved	0.0011	J	0.500	0.494		mg/L		99	75 - 125	0	20
Molybdenum	<0.00061		0.500	0.510		mg/L		102	75 - 125	2	20
Molybdenum, Dissolved	<0.00061		0.500	0.510		mg/L		102	75 - 125	2	20
Selenium	<0.00074		1.00	0.976		mg/L		98	75 - 125	0	20
Selenium, Dissolved	<0.00074		1.00	0.976		mg/L		98	75 - 125	0	20
Thallium	<0.00047		1.00	1.01		mg/L		101	75 - 125	1	20
Thallium, Dissolved	<0.00047		1.00	1.01		mg/L		101	75 - 125	1	20

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-398317/1-A
Matrix: Water
Analysis Batch: 398485

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 398317

Analyte	MB	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result								
Mercury	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:49	05/11/22 16:53	1
Mercury, Dissolved	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:49	05/11/22 16:53	1

Lab Sample ID: LCS 180-398317/2-A
Matrix: Water
Analysis Batch: 398485

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 398317

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Mercury	0.00250	0.00247		mg/L		99	80 - 120
Mercury, Dissolved	0.00250	0.00247		mg/L		99	80 - 120

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QC Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

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

Lab Sample ID: 180-137407-1 MS
Matrix: Water
Analysis Batch: 398485

Client Sample ID: SW-1
Prep Type: Total/NA
Prep Batch: 398317

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	
	Result	Qualifier	Added	Result	Qualifier				Limits	
Mercury	<0.00013		0.00100	0.000940		mg/L		94	75 - 125	
Mercury, Dissolved	<0.00013		0.00100	0.000940		mg/L		94	75 - 125	

Lab Sample ID: 180-137407-1 MSD
Matrix: Water
Analysis Batch: 398485

Client Sample ID: SW-1
Prep Type: Total/NA
Prep Batch: 398317

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
Mercury	<0.00013		0.00100	0.000939		mg/L		94	75 - 125		0	20
Mercury, Dissolved	<0.00013		0.00100	0.000939		mg/L		94	75 - 125		0	20

Lab Sample ID: MB 180-398320/1-A
Matrix: Water
Analysis Batch: 398485

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 398320

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:51	05/11/22 17:25	1
Mercury, Dissolved	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:51	05/11/22 17:25	1

Lab Sample ID: LCS 180-398320/2-A
Matrix: Water
Analysis Batch: 398485

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 398320

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec	
							Result	Qualifier
Mercury	0.00250	0.00248		mg/L		99	80 - 120	
Mercury, Dissolved	0.00250	0.00248		mg/L		99	80 - 120	

Lab Sample ID: 180-137407-19 MS
Matrix: Water
Analysis Batch: 398485

Client Sample ID: SW-5
Prep Type: Total/NA
Prep Batch: 398320

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	
	Result	Qualifier	Added	Result	Qualifier				Limits	
Mercury	<0.00013		0.00100	0.000926		mg/L		93	75 - 125	
Mercury, Dissolved	<0.00013		0.00100	0.000926		mg/L		93	75 - 125	

Lab Sample ID: 180-137407-19 MSD
Matrix: Water
Analysis Batch: 398485

Client Sample ID: SW-5
Prep Type: Total/NA
Prep Batch: 398320

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
Mercury	<0.00013		0.00100	0.000928		mg/L		93	75 - 125		0	20
Mercury, Dissolved	<0.00013		0.00100	0.000928		mg/L		93	75 - 125		0	20

Lab Sample ID: MB 180-398321/1-A
Matrix: Water
Analysis Batch: 398485

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 398321

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:53	05/11/22 17:55	1
Mercury, Dissolved	<0.00013		0.00020	0.00013	mg/L		05/11/22 05:53	05/11/22 17:55	1

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QC Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: LCS 180-398321/2-A
 Matrix: Water
 Analysis Batch: 398485

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 398321

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00251		mg/L		100	80 - 120
Mercury, Dissolved	0.00250	0.00251		mg/L		100	80 - 120

Lab Sample ID: 180-137407-37 MS
 Matrix: Water
 Analysis Batch: 398485

Client Sample ID: SW-13
 Prep Type: Total/NA
 Prep Batch: 398321

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00013		0.00100	0.000928		mg/L		93	75 - 125
Mercury, Dissolved	<0.00013		0.00100	0.000928		mg/L		93	75 - 125

Lab Sample ID: 180-137407-37 MSD
 Matrix: Water
 Analysis Batch: 398485

Client Sample ID: SW-13
 Prep Type: Total/NA
 Prep Batch: 398321

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00013		0.00100	0.000932		mg/L		93	75 - 125	0	20
Mercury, Dissolved	<0.00013		0.00100	0.000932		mg/L		93	75 - 125	0	20

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

Lab Sample ID: MB 180-397376/2
 Matrix: Water
 Analysis Batch: 397376

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		10	10	mg/L			05/02/22 14:23	1
Total Dissolved Solids Field Filtered	<10		10	10	mg/L			05/02/22 14:23	1

Lab Sample ID: LCS 180-397376/1
 Matrix: Water
 Analysis Batch: 397376

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	469	474		mg/L		101	85 - 115
Total Dissolved Solids Field Filtered	469	474		mg/L		101	85 - 115

Lab Sample ID: MB 180-397377/2
 Matrix: Water
 Analysis Batch: 397377

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		10	10	mg/L			05/02/22 14:25	1
Total Dissolved Solids Field Filtered	<10		10	10	mg/L			05/02/22 14:25	1

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QC Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

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

Lab Sample ID: LCS 180-397377/1
Matrix: Water
Analysis Batch: 397377

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	469	462		mg/L		99	85 - 115
Total Dissolved Solids Field Filtered	469	462		mg/L		99	85 - 115

Lab Sample ID: 180-137407-7 DU
Matrix: Water
Analysis Batch: 397377

Client Sample ID: SW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	280		283		mg/L		4	10
Total Dissolved Solids Field Filtered	280		283		mg/L		4	10

Lab Sample ID: 180-137407-17 DU
Matrix: Water
Analysis Batch: 397377

Client Sample ID: SW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	120		107		mg/L		8	10
Total Dissolved Solids Field Filtered	120		107		mg/L		8	10

Lab Sample ID: MB 180-397389/2
Matrix: Water
Analysis Batch: 397389

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		10	10	mg/L			05/02/22 15:30	1
Total Dissolved Solids Field Filtered	<10		10	10	mg/L			05/02/22 15:30	1

Lab Sample ID: LCS 180-397389/1
Matrix: Water
Analysis Batch: 397389

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	469	476		mg/L		101	85 - 115
Total Dissolved Solids Field Filtered	469	476		mg/L		101	85 - 115

Lab Sample ID: MB 180-397520/2
Matrix: Water
Analysis Batch: 397520

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		10	10	mg/L			05/03/22 15:30	1
Total Dissolved Solids Field Filtered	<10		10	10	mg/L			05/03/22 15:30	1

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QC Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

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

Lab Sample ID: LCS 180-397520/1
Matrix: Water
Analysis Batch: 397520

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	469	458		mg/L		98	85 - 115
Total Dissolved Solids Field Filtered	469	458		mg/L		98	85 - 115

Lab Sample ID: 180-137407-26 DU
Matrix: Water
Analysis Batch: 397389

Client Sample ID: SW-9
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	210		192		mg/L		7	10
Total Dissolved Solids Field Filtered	210		192		mg/L		7	10

Lab Sample ID: 180-137407-36 DU
Matrix: Water
Analysis Batch: 397389

Client Sample ID: SW-12
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	120		129		mg/L		6	10
Total Dissolved Solids Field Filtered	120		129		mg/L		6	10

Lab Sample ID: 180-137407-46 DU
Matrix: Water
Analysis Batch: 397520

Client Sample ID: SW-16
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	720		722		mg/L		0.8	10
Total Dissolved Solids Field Filtered	720		722		mg/L		0.8	10

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

HPLC/IC

Analysis Batch: 399784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-137407-1	SW-1	Total/NA	Water	300.0	
180-137407-2	SW-1	Dissolved	Water	EPA 300.0 R2.1	
180-137407-3	SW-1	Total/NA	Water	300.0	
180-137407-4	SW-1	Dissolved	Water	EPA 300.0 R2.1	
180-137407-5	SW-2	Total/NA	Water	300.0	
180-137407-6	SW-2	Dissolved	Water	EPA 300.0 R2.1	
180-137407-7	SW-2	Total/NA	Water	300.0	
180-137407-8	SW-2	Dissolved	Water	EPA 300.0 R2.1	
180-137407-9	SW-3	Total/NA	Water	300.0	
180-137407-10	SW-3	Dissolved	Water	EPA 300.0 R2.1	
180-137407-11	SW-3	Total/NA	Water	300.0	
180-137407-17	SW-5	Total/NA	Water	300.0	
180-137407-18	SW-5	Dissolved	Water	EPA 300.0 R2.1	
180-137407-19	SW-5	Total/NA	Water	300.0	
180-137407-20	SW-5	Dissolved	Water	EPA 300.0 R2.1	
180-137407-21	SW-6	Total/NA	Water	300.0	
180-137407-41	SW-15	Total/NA	Water	300.0	
180-137407-42	SW-15	Dissolved	Water	EPA 300.0 R2.1	
180-137407-45	SW-16	Total/NA	Water	300.0	
180-137407-46	SW-16	Dissolved	Water	EPA 300.0 R2.1	
180-137407-49	EB-01	Total/NA	Water	300.0	
180-137407-50	EB-02	Total/NA	Water	300.0	
180-137407-51	FB-01	Total/NA	Water	300.0	
180-137407-52	FB-02	Total/NA	Water	300.0	
MB 180-399784/41	Method Blank	Total/NA	Water	300.0	
MB 180-399784/7	Method Blank	Total/NA	Water	300.0	
LCS 180-399784/40	Lab Control Sample	Total/NA	Water	300.0	
LCS 180-399784/5	Lab Control Sample	Total/NA	Water	300.0	
180-137407-5 MS	SW-2	Total/NA	Water	300.0	
180-137407-5 MSD	SW-2	Total/NA	Water	300.0	
180-137407-18 MS	SW-5	Dissolved	Water	EPA 300.0 R2.1	
180-137407-18 MSD	SW-5	Dissolved	Water	EPA 300.0 R2.1	

Analysis Batch: 399785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-137407-12	SW-3	Dissolved	Water	EPA 300.0 R2.1	
180-137407-13	SW-4	Total/NA	Water	300.0	
180-137407-14	SW-4	Dissolved	Water	EPA 300.0 R2.1	
180-137407-15	DUP-01	Total/NA	Water	300.0	
180-137407-16	DUP-01	Dissolved	Water	EPA 300.0 R2.1	
180-137407-22	SW-6	Dissolved	Water	EPA 300.0 R2.1	
180-137407-23	SW-6	Total/NA	Water	300.0	
180-137407-24	SW-6	Dissolved	Water	EPA 300.0 R2.1	
180-137407-25	SW-9	Total/NA	Water	300.0	
180-137407-26	SW-9	Dissolved	Water	EPA 300.0 R2.1	
180-137407-27	SW-9	Total/NA	Water	300.0	
180-137407-28	SW-9	Dissolved	Water	EPA 300.0 R2.1	
180-137407-29	SW-10	Total/NA	Water	300.0	
180-137407-30	SW-10	Dissolved	Water	EPA 300.0 R2.1	
180-137407-31	DUP-02	Total/NA	Water	300.0	
180-137407-32	DUP-02	Dissolved	Water	EPA 300.0 R2.1	

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QC Association Summary

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

HPLC/IC (Continued)

Analysis Batch: 399785 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-137407-33	SW-11	Total/NA	Water	300.0	
180-137407-34	SW-11	Dissolved	Water	EPA 300.0 R2.1	
180-137407-35	SW-12	Total/NA	Water	300.0	
180-137407-36	SW-12	Dissolved	Water	EPA 300.0 R2.1	
180-137407-37	SW-13	Total/NA	Water	300.0	
180-137407-38	SW-13	Dissolved	Water	EPA 300.0 R2.1	
180-137407-39	SW-14	Total/NA	Water	300.0	
180-137407-40	SW-14	Dissolved	Water	EPA 300.0 R2.1	
180-137407-43	DUP-03	Total/NA	Water	300.0	
180-137407-44	DUP-03	Dissolved	Water	EPA 300.0 R2.1	
180-137407-47	SW-17	Total/NA	Water	300.0	
180-137407-48	SW-17	Dissolved	Water	EPA 300.0 R2.1	
MB 180-399785/43	Method Blank	Total/NA	Water	300.0	
MB 180-399785/7	Method Blank	Total/NA	Water	300.0	
LCS 180-399785/42	Lab Control Sample	Total/NA	Water	300.0	
LCS 180-399785/6	Lab Control Sample	Total/NA	Water	300.0	
180-137407-24 MS	SW-6	Dissolved	Water	300.0	
180-137407-24 MSD	SW-6	Dissolved	Water	300.0	
180-137407-26 MS	SW-9	Dissolved	Water	EPA 300.0 R2.1	
180-137407-26 MSD	SW-9	Dissolved	Water	EPA 300.0 R2.1	
180-137407-36 MS	SW-12	Dissolved	Water	300.0	
180-137407-36 MSD	SW-12	Dissolved	Water	300.0	

Metals

Prep Batch: 398317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-137407-1	SW-1	Total/NA	Water	7470A	
180-137407-2	SW-1	Dissolved	Water	7470A	
180-137407-3	SW-1	Total/NA	Water	7470A	
180-137407-4	SW-1	Dissolved	Water	7470A	
180-137407-5	SW-2	Total/NA	Water	7470A	
180-137407-6	SW-2	Dissolved	Water	7470A	
180-137407-7	SW-2	Total/NA	Water	7470A	
180-137407-8	SW-2	Dissolved	Water	7470A	
180-137407-9	SW-3	Total/NA	Water	7470A	
180-137407-10	SW-3	Dissolved	Water	7470A	
180-137407-11	SW-3	Total/NA	Water	7470A	
180-137407-12	SW-3	Dissolved	Water	7470A	
180-137407-13	SW-4	Total/NA	Water	7470A	
180-137407-14	SW-4	Dissolved	Water	7470A	
180-137407-15	DUP-01	Total/NA	Water	7470A	
180-137407-16	DUP-01	Dissolved	Water	7470A	
180-137407-17	SW-5	Total/NA	Water	7470A	
180-137407-18	SW-5	Dissolved	Water	7470A	
MB 180-398317/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-398317/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-137407-1 MS	SW-1	Total/NA	Water	7470A	
180-137407-1 MSD	SW-1	Total/NA	Water	7470A	

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QC Association Summary

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Metals

Prep Batch: 398320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-137407-19	SW-5	Total/NA	Water	7470A	
180-137407-20	SW-5	Dissolved	Water	7470A	
180-137407-21	SW-6	Total/NA	Water	7470A	
180-137407-22	SW-6	Dissolved	Water	7470A	
180-137407-23	SW-6	Total/NA	Water	7470A	
180-137407-24	SW-6	Dissolved	Water	7470A	
180-137407-25	SW-9	Total/NA	Water	7470A	
180-137407-26	SW-9	Dissolved	Water	7470A	
180-137407-27	SW-9	Total/NA	Water	7470A	
180-137407-28	SW-9	Dissolved	Water	7470A	
180-137407-29	SW-10	Total/NA	Water	7470A	
180-137407-30	SW-10	Dissolved	Water	7470A	
180-137407-31	DUP-02	Total/NA	Water	7470A	
180-137407-32	DUP-02	Dissolved	Water	7470A	
180-137407-33	SW-11	Total/NA	Water	7470A	
180-137407-34	SW-11	Dissolved	Water	7470A	
180-137407-35	SW-12	Total/NA	Water	7470A	
180-137407-36	SW-12	Dissolved	Water	7470A	
MB 180-398320/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-398320/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-137407-19 MS	SW-5	Total/NA	Water	7470A	
180-137407-19 MSD	SW-5	Total/NA	Water	7470A	

Prep Batch: 398321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-137407-37	SW-13	Total/NA	Water	7470A	
180-137407-38	SW-13	Dissolved	Water	7470A	
180-137407-39	SW-14	Total/NA	Water	7470A	
180-137407-40	SW-14	Dissolved	Water	7470A	
180-137407-41	SW-15	Total/NA	Water	7470A	
180-137407-42	SW-15	Dissolved	Water	7470A	
180-137407-43	DUP-03	Total/NA	Water	7470A	
180-137407-44	DUP-03	Dissolved	Water	7470A	
180-137407-45	SW-16	Total/NA	Water	7470A	
180-137407-46	SW-16	Dissolved	Water	7470A	
180-137407-47	SW-17	Total/NA	Water	7470A	
180-137407-48	SW-17	Dissolved	Water	7470A	
180-137407-49	EB-01	Total/NA	Water	7470A	
180-137407-50	EB-02	Total/NA	Water	7470A	
180-137407-51	FB-01	Total/NA	Water	7470A	
180-137407-52	FB-02	Total/NA	Water	7470A	
MB 180-398321/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-398321/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-137407-37 MS	SW-13	Total/NA	Water	7470A	
180-137407-37 MSD	SW-13	Total/NA	Water	7470A	

Prep Batch: 398378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-137407-16	DUP-01	Dissolved	Water	3005A	
180-137407-17	SW-5	Total Recoverable	Water	3005A	
180-137407-18	SW-5	Dissolved	Water	3005A	

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QC Association Summary

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Metals (Continued)

Prep Batch: 398378 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-137407-19	SW-5	Total Recoverable	Water	3005A	
180-137407-20	SW-5	Dissolved	Water	3005A	
180-137407-21	SW-6	Total Recoverable	Water	3005A	
180-137407-22	SW-6	Dissolved	Water	3005A	
180-137407-23	SW-6	Total Recoverable	Water	3005A	
180-137407-24	SW-6	Dissolved	Water	3005A	
180-137407-25	SW-9	Total Recoverable	Water	3005A	
180-137407-26	SW-9	Dissolved	Water	3005A	
180-137407-27	SW-9	Total Recoverable	Water	3005A	
180-137407-28	SW-9	Dissolved	Water	3005A	
180-137407-29	SW-10	Total Recoverable	Water	3005A	
180-137407-30	SW-10	Dissolved	Water	3005A	
180-137407-31	DUP-02	Total Recoverable	Water	3005A	
180-137407-32	DUP-02	Dissolved	Water	3005A	
180-137407-33	SW-11	Total Recoverable	Water	3005A	
180-137407-34	SW-11	Dissolved	Water	3005A	
180-137407-35	SW-12	Total Recoverable	Water	3005A	
MB 180-398378/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-398378/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-137407-16 MS	DUP-01	Dissolved	Water	3005A	
180-137407-16 MSD	DUP-01	Dissolved	Water	3005A	

Prep Batch: 398381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-137407-36	SW-12	Dissolved	Water	3005A	
180-137407-37	SW-13	Total Recoverable	Water	3005A	
180-137407-38	SW-13	Dissolved	Water	3005A	
180-137407-39	SW-14	Total Recoverable	Water	3005A	
180-137407-40	SW-14	Dissolved	Water	3005A	
180-137407-41	SW-15	Total Recoverable	Water	3005A	
180-137407-42	SW-15	Dissolved	Water	3005A	
180-137407-43	DUP-03	Total Recoverable	Water	3005A	
180-137407-44	DUP-03	Dissolved	Water	3005A	
180-137407-45	SW-16	Total Recoverable	Water	3005A	
180-137407-46	SW-16	Dissolved	Water	3005A	
180-137407-47	SW-17	Total Recoverable	Water	3005A	
180-137407-48	SW-17	Dissolved	Water	3005A	
180-137407-49	EB-01	Total Recoverable	Water	3005A	
180-137407-50	EB-02	Total Recoverable	Water	3005A	
180-137407-51	FB-01	Total Recoverable	Water	3005A	
180-137407-52	FB-02	Total Recoverable	Water	3005A	
MB 180-398381/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-398381/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-137407-36 MS	SW-12	Dissolved	Water	3005A	
180-137407-36 MSD	SW-12	Dissolved	Water	3005A	

Prep Batch: 398398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-137407-1	SW-1	Total Recoverable	Water	3005A	
180-137407-2	SW-1	Dissolved	Water	3005A	
180-137407-3	SW-1	Total Recoverable	Water	3005A	

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QC Association Summary

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Metals (Continued)

Prep Batch: 398398 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-137407-4	SW-1	Dissolved	Water	3005A	
180-137407-5	SW-2	Total Recoverable	Water	3005A	
180-137407-6	SW-2	Dissolved	Water	3005A	
180-137407-7	SW-2	Total Recoverable	Water	3005A	
180-137407-8	SW-2	Dissolved	Water	3005A	
180-137407-9	SW-3	Total Recoverable	Water	3005A	
180-137407-10	SW-3	Dissolved	Water	3005A	
180-137407-11	SW-3	Total Recoverable	Water	3005A	
180-137407-12	SW-3	Dissolved	Water	3005A	
180-137407-13	SW-4	Total Recoverable	Water	3005A	
180-137407-14	SW-4	Dissolved	Water	3005A	
180-137407-15	DUP-01	Total Recoverable	Water	3005A	
MB 180-398398/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-398398/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 398485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-137407-1	SW-1	Total/NA	Water	EPA 7470A	398317
180-137407-2	SW-1	Dissolved	Water	EPA 7470A	398317
180-137407-3	SW-1	Total/NA	Water	EPA 7470A	398317
180-137407-4	SW-1	Dissolved	Water	EPA 7470A	398317
180-137407-5	SW-2	Total/NA	Water	EPA 7470A	398317
180-137407-6	SW-2	Dissolved	Water	EPA 7470A	398317
180-137407-7	SW-2	Total/NA	Water	EPA 7470A	398317
180-137407-8	SW-2	Dissolved	Water	EPA 7470A	398317
180-137407-9	SW-3	Total/NA	Water	EPA 7470A	398317
180-137407-10	SW-3	Dissolved	Water	EPA 7470A	398317
180-137407-11	SW-3	Total/NA	Water	EPA 7470A	398317
180-137407-12	SW-3	Dissolved	Water	EPA 7470A	398317
180-137407-13	SW-4	Total/NA	Water	EPA 7470A	398317
180-137407-14	SW-4	Dissolved	Water	EPA 7470A	398317
180-137407-15	DUP-01	Total/NA	Water	EPA 7470A	398317
180-137407-16	DUP-01	Dissolved	Water	EPA 7470A	398317
180-137407-17	SW-5	Total/NA	Water	EPA 7470A	398317
180-137407-18	SW-5	Dissolved	Water	EPA 7470A	398317
180-137407-19	SW-5	Total/NA	Water	EPA 7470A	398320
180-137407-20	SW-5	Dissolved	Water	EPA 7470A	398320
180-137407-21	SW-6	Total/NA	Water	EPA 7470A	398320
180-137407-22	SW-6	Dissolved	Water	EPA 7470A	398320
180-137407-23	SW-6	Total/NA	Water	EPA 7470A	398320
180-137407-24	SW-6	Dissolved	Water	EPA 7470A	398320
180-137407-25	SW-9	Total/NA	Water	EPA 7470A	398320
180-137407-26	SW-9	Dissolved	Water	EPA 7470A	398320
180-137407-27	SW-9	Total/NA	Water	EPA 7470A	398320
180-137407-28	SW-9	Dissolved	Water	EPA 7470A	398320
180-137407-29	SW-10	Total/NA	Water	EPA 7470A	398320
180-137407-30	SW-10	Dissolved	Water	EPA 7470A	398320
180-137407-31	DUP-02	Total/NA	Water	EPA 7470A	398320
180-137407-32	DUP-02	Dissolved	Water	EPA 7470A	398320
180-137407-33	SW-11	Total/NA	Water	EPA 7470A	398320
180-137407-34	SW-11	Dissolved	Water	EPA 7470A	398320

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QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Metals (Continued)

Analysis Batch: 398485 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-137407-35	SW-12	Total/NA	Water	EPA 7470A	398320
180-137407-36	SW-12	Dissolved	Water	EPA 7470A	398320
180-137407-37	SW-13	Total/NA	Water	EPA 7470A	398321
180-137407-38	SW-13	Dissolved	Water	EPA 7470A	398321
180-137407-39	SW-14	Total/NA	Water	EPA 7470A	398321
180-137407-40	SW-14	Dissolved	Water	EPA 7470A	398321
180-137407-41	SW-15	Total/NA	Water	EPA 7470A	398321
180-137407-42	SW-15	Dissolved	Water	EPA 7470A	398321
180-137407-43	DUP-03	Total/NA	Water	EPA 7470A	398321
180-137407-44	DUP-03	Dissolved	Water	EPA 7470A	398321
180-137407-45	SW-16	Total/NA	Water	EPA 7470A	398321
180-137407-46	SW-16	Dissolved	Water	EPA 7470A	398321
180-137407-47	SW-17	Total/NA	Water	EPA 7470A	398321
180-137407-48	SW-17	Dissolved	Water	EPA 7470A	398321
180-137407-49	EB-01	Total/NA	Water	EPA 7470A	398321
180-137407-50	EB-02	Total/NA	Water	EPA 7470A	398321
180-137407-51	FB-01	Total/NA	Water	EPA 7470A	398321
180-137407-52	FB-02	Total/NA	Water	EPA 7470A	398321
MB 180-398317/1-A	Method Blank	Total/NA	Water	EPA 7470A	398317
MB 180-398320/1-A	Method Blank	Total/NA	Water	EPA 7470A	398320
MB 180-398321/1-A	Method Blank	Total/NA	Water	EPA 7470A	398321
LCS 180-398317/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	398317
LCS 180-398320/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	398320
LCS 180-398321/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	398321
180-137407-1 MS	SW-1	Total/NA	Water	EPA 7470A	398317
180-137407-1 MSD	SW-1	Total/NA	Water	EPA 7470A	398317
180-137407-19 MS	SW-5	Total/NA	Water	EPA 7470A	398320
180-137407-19 MSD	SW-5	Total/NA	Water	EPA 7470A	398320
180-137407-37 MS	SW-13	Total/NA	Water	EPA 7470A	398321
180-137407-37 MSD	SW-13	Total/NA	Water	EPA 7470A	398321

Analysis Batch: 398761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-137407-1	SW-1	Total Recoverable	Water	EPA 6020B	398398
180-137407-2	SW-1	Dissolved	Water	EPA 6020B	398398
180-137407-3	SW-1	Total Recoverable	Water	EPA 6020B	398398
180-137407-4	SW-1	Dissolved	Water	EPA 6020B	398398
180-137407-5	SW-2	Total Recoverable	Water	EPA 6020B	398398
180-137407-6	SW-2	Dissolved	Water	EPA 6020B	398398
180-137407-7	SW-2	Total Recoverable	Water	EPA 6020B	398398
180-137407-8	SW-2	Dissolved	Water	EPA 6020B	398398
180-137407-9	SW-3	Total Recoverable	Water	EPA 6020B	398398
180-137407-10	SW-3	Dissolved	Water	EPA 6020B	398398
180-137407-11	SW-3	Total Recoverable	Water	EPA 6020B	398398
180-137407-12	SW-3	Dissolved	Water	EPA 6020B	398398
180-137407-13	SW-4	Total Recoverable	Water	EPA 6020B	398398
180-137407-14	SW-4	Dissolved	Water	EPA 6020B	398398
180-137407-15	DUP-01	Total Recoverable	Water	EPA 6020B	398398
180-137407-36	SW-12	Dissolved	Water	EPA 6020B	398381
180-137407-37	SW-13	Total Recoverable	Water	EPA 6020B	398381
180-137407-38	SW-13	Dissolved	Water	EPA 6020B	398381

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QC Association Summary

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

Metals (Continued)

Analysis Batch: 398761 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-137407-39	SW-14	Total Recoverable	Water	EPA 6020B	398381
180-137407-40	SW-14	Dissolved	Water	EPA 6020B	398381
180-137407-41	SW-15	Total Recoverable	Water	EPA 6020B	398381
180-137407-42	SW-15	Dissolved	Water	EPA 6020B	398381
180-137407-43	DUP-03	Total Recoverable	Water	EPA 6020B	398381
180-137407-44	DUP-03	Dissolved	Water	EPA 6020B	398381
180-137407-45	SW-16	Total Recoverable	Water	EPA 6020B	398381
180-137407-46	SW-16	Dissolved	Water	EPA 6020B	398381
180-137407-47	SW-17	Total Recoverable	Water	EPA 6020B	398381
180-137407-48	SW-17	Dissolved	Water	EPA 6020B	398381
180-137407-49	EB-01	Total Recoverable	Water	EPA 6020B	398381
180-137407-50	EB-02	Total Recoverable	Water	EPA 6020B	398381
180-137407-51	FB-01	Total Recoverable	Water	EPA 6020B	398381
180-137407-52	FB-02	Total Recoverable	Water	EPA 6020B	398381
MB 180-398381/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	398381
MB 180-398398/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	398398
LCS 180-398381/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	398381
LCS 180-398398/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	398398
180-137407-36 MS	SW-12	Dissolved	Water	EPA 6020B	398381
180-137407-36 MSD	SW-12	Dissolved	Water	EPA 6020B	398381

Analysis Batch: 399007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-137407-16	DUP-01	Dissolved	Water	EPA 6020B	398378
180-137407-17	SW-5	Total Recoverable	Water	EPA 6020B	398378
180-137407-18	SW-5	Dissolved	Water	EPA 6020B	398378
180-137407-19	SW-5	Total Recoverable	Water	EPA 6020B	398378
180-137407-20	SW-5	Dissolved	Water	EPA 6020B	398378
180-137407-21	SW-6	Total Recoverable	Water	EPA 6020B	398378
180-137407-22	SW-6	Dissolved	Water	EPA 6020B	398378
180-137407-23	SW-6	Total Recoverable	Water	EPA 6020B	398378
180-137407-24	SW-6	Dissolved	Water	EPA 6020B	398378
180-137407-25	SW-9	Total Recoverable	Water	EPA 6020B	398378
180-137407-26	SW-9	Dissolved	Water	EPA 6020B	398378
180-137407-27	SW-9	Total Recoverable	Water	EPA 6020B	398378
180-137407-28	SW-9	Dissolved	Water	EPA 6020B	398378
180-137407-29	SW-10	Total Recoverable	Water	EPA 6020B	398378
180-137407-30	SW-10	Dissolved	Water	EPA 6020B	398378
180-137407-31	DUP-02	Total Recoverable	Water	EPA 6020B	398378
180-137407-32	DUP-02	Dissolved	Water	EPA 6020B	398378
180-137407-33	SW-11	Total Recoverable	Water	EPA 6020B	398378
180-137407-34	SW-11	Dissolved	Water	EPA 6020B	398378
180-137407-35	SW-12	Total Recoverable	Water	EPA 6020B	398378
MB 180-398378/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	398378
LCS 180-398378/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	398378
180-137407-16 MS	DUP-01	Dissolved	Water	EPA 6020B	398378
180-137407-16 MSD	DUP-01	Dissolved	Water	EPA 6020B	398378

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

General Chemistry

Analysis Batch: 397376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-137407-1	SW-1	Total/NA	Water	SM 2540C	
180-137407-2	SW-1	Dissolved	Water	SM 2540C	
180-137407-3	SW-1	Total/NA	Water	SM 2540C	
180-137407-4	SW-1	Dissolved	Water	SM 2540C	
180-137407-5	SW-2	Total/NA	Water	SM 2540C	
180-137407-6	SW-2	Dissolved	Water	SM 2540C	
MB 180-397376/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-397376/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 397377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-137407-7	SW-2	Total/NA	Water	SM 2540C	
180-137407-8	SW-2	Dissolved	Water	SM 2540C	
180-137407-9	SW-3	Total/NA	Water	SM 2540C	
180-137407-10	SW-3	Dissolved	Water	SM 2540C	
180-137407-11	SW-3	Total/NA	Water	SM 2540C	
180-137407-12	SW-3	Dissolved	Water	SM 2540C	
180-137407-13	SW-4	Total/NA	Water	SM 2540C	
180-137407-14	SW-4	Dissolved	Water	SM 2540C	
180-137407-15	DUP-01	Total/NA	Water	SM 2540C	
180-137407-16	DUP-01	Dissolved	Water	SM 2540C	
180-137407-17	SW-5	Total/NA	Water	SM 2540C	
180-137407-18	SW-5	Dissolved	Water	SM 2540C	
180-137407-19	SW-5	Total/NA	Water	SM 2540C	
180-137407-20	SW-5	Dissolved	Water	SM 2540C	
180-137407-21	SW-6	Total/NA	Water	SM 2540C	
180-137407-22	SW-6	Dissolved	Water	SM 2540C	
180-137407-23	SW-6	Total/NA	Water	SM 2540C	
180-137407-24	SW-6	Dissolved	Water	SM 2540C	
180-137407-25	SW-9	Total/NA	Water	SM 2540C	
MB 180-397377/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-397377/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-137407-7 DU	SW-2	Total/NA	Water	SM 2540C	
180-137407-17 DU	SW-5	Total/NA	Water	SM 2540C	

Analysis Batch: 397389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-137407-26	SW-9	Dissolved	Water	SM 2540C	
180-137407-27	SW-9	Total/NA	Water	SM 2540C	
180-137407-28	SW-9	Dissolved	Water	SM 2540C	
180-137407-29	SW-10	Total/NA	Water	SM 2540C	
180-137407-30	SW-10	Dissolved	Water	SM 2540C	
180-137407-31	DUP-02	Total/NA	Water	SM 2540C	
180-137407-32	DUP-02	Dissolved	Water	SM 2540C	
180-137407-33	SW-11	Total/NA	Water	SM 2540C	
180-137407-34	SW-11	Dissolved	Water	SM 2540C	
180-137407-35	SW-12	Total/NA	Water	SM 2540C	
180-137407-36	SW-12	Dissolved	Water	SM 2540C	
180-137407-37	SW-13	Total/NA	Water	SM 2540C	
180-137407-38	SW-13	Dissolved	Water	SM 2540C	
180-137407-39	SW-14	Total/NA	Water	SM 2540C	

Eurofins Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-1

General Chemistry (Continued)

Analysis Batch: 397389 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-137407-40	SW-14	Dissolved	Water	SM 2540C	
180-137407-41	SW-15	Total/NA	Water	SM 2540C	
180-137407-42	SW-15	Dissolved	Water	SM 2540C	
180-137407-43	DUP-03	Total/NA	Water	SM 2540C	
180-137407-44	DUP-03	Dissolved	Water	SM 2540C	
180-137407-45	SW-16	Total/NA	Water	SM 2540C	
MB 180-397389/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-397389/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-137407-26 DU	SW-9	Dissolved	Water	SM 2540C	
180-137407-36 DU	SW-12	Dissolved	Water	SM 2540C	

Analysis Batch: 397520

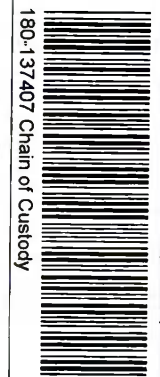
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-137407-46	SW-16	Dissolved	Water	SM 2540C	
180-137407-47	SW-17	Total/NA	Water	SM 2540C	
180-137407-48	SW-17	Dissolved	Water	SM 2540C	
180-137407-49	EB-01	Total/NA	Water	SM 2540C	
180-137407-50	EB-02	Total/NA	Water	SM 2540C	
180-137407-51	FB-01	Total/NA	Water	SM 2540C	
180-137407-52	FB-02	Total/NA	Water	SM 2540C	
MB 180-397520/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-397520/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-137407-46 DU	SW-16	Dissolved	Water	SM 2540C	

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
 Pittsburgh, PA 15238
 Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

Client Information		Sampler: <u>Rice Heyerdahl / Brooks</u>		Lab PM: Brown, Shali		Carrier Tracking No(s):		COC No:																							
Client Contact: SCS Contacts		Phone: <u>856-336-0192</u>		E-Mail: shall.brown@eurofinset.com				Page: <u>1 of 6</u>																							
Company: SCS		Address: 3535 Colonnade Pkwy Bin S 530 EC		City: Birmingham		State, Zip: AL, 35243		Job #: <u>1 of 6</u>																							
Phone: 205-992-6283		Email: SCS Contacts		Project Name: Plant Watson		Site: Ash Pond (Surface Water)		Analysis Requested																							
Duo Date Requested:		TAT Requested (days):		PO #:		WO #:		Project #: 18020186																							
SSOW#:		Project #:		SSOW#:		Project #:		SSOW#:																							
								Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)																							
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (Water, Sediment, etc.)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		2540C Total Dissolved Solids		300_28Day Chloride Fluoride Sulfate		6020B/7470 Custom 14 (Appl/IA/IV+g) + Mercury		9315_Ra226 Radium 226		9320_Ra228 Radium 228		Combined RAD		Total Number of containers		DEPTH GOES HERE		Special Instructions/Note:	
SW-1		4-27-22		1736		G		SW		X		X		X		X		X		X		X		X		X		Depth = <u>1ft</u>			
SW-1				1743				SW		X		X		X		X		X		X		X		X		X		Depth = <u>1ft</u>			
SW-1				1751				SW		X		X		X		X		X		X		X		X		X		Depth = <u>7ft</u>			
SW-1				1757				SW		X		X		X		X		X		X		X		X		X		Depth = <u>7ft</u>			
SW-2				1649				SW		X		X		X		X		X		X		X		X		X		Depth = <u>1ft</u>			
SW-2				1703				SW		X		X		X		X		X		X		X		X		X		Depth = <u>1ft</u>			
SW-2				1713				SW		X		X		X		X		X		X		X		X		X		Depth = <u>7ft</u>			
SW-2				1721				SW		X		X		X		X		X		X		X		X		X		Depth = <u>7ft</u>			
SW-3				0842				SW		X		X		X		X		X		X		X		X		X		Depth = <u>1ft</u>			
SW-3				0907				SW		X		X		X		X		X		X		X		X		X		Depth = <u>1ft</u>			
SW-3				0920				SW		X		X		X		X		X		X		X		X		X		Depth = <u>4ft</u>			
Possible Hazard Identification		<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)		<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)														Special Instructions/QC Requirements: <u>COIFF TEST AS FIELD KIT FOR FF on bottles denotes those bottles ARE FIELD FILTERED</u>																	
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:																									
Relinquished by: <u>Randy Heyerdahl</u>		Date/Time: <u>4-28-22 1405</u>		Company: <u>RDA ENV</u>		Received by: <u>[Signature]</u>		Date/Time: <u>4/29/22 1500</u>		Company: <u>[Signature]</u>																					
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:																					
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:																					
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:												Cooler Temperature(s) °C and Other Remarks:																	



Chain of Custody Record



Client Information		Sampler: <i>Elex / Brown / Bradlock</i>		Lab PM: Brown, Shali		Carrier Tracking No(s):		COC No:			
Client Contact:		Phone: <i>850-330-0192</i>		E-Mail: <i>shali.brown@eurominset.com</i>				Page: <i>2 of 6</i>			
SCS Contacts		Company: SCS		Address: 3535 Colonnade Pkwy Bin S 530 EC		Analysis Requested		Job #:			
City: Birmingham		Due Date Requested:		TAT Requested (days):		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 2540C Total Dissolved Solids 300_28Day Chloride Fluoride Sulfate 6020B/7470 Custom 14 (App/III/APP/IV-9) + Mercury 9315_Raz228 Radium 226 9320_Raz228 Radium 228 Combined RAD Total Number of containers		Preservation Codes:			
State, Zip: AL 35243		PO #:		WO #:				A - HCL M - Hexane		B - NaOH N - None	
Phone: 205-992-6283		Project #:		SSOW#:				C - Zn Acetate O - AsNaO2		D - Nitric Acid P - Na2O4S	
Email:		Project #:		Project #:				E - NaHSO4 Q - Na2SO3		F - MeOH R - Na2S2O3	
SCS Contacts		Project #:		Project #:				G - Amchlor S - H2SO4		H - Amchlor T - TSP Dodecahydrate	
Project Name: Plant Watson		Project #:		Project #:		I - Ice U - Acetone		J - DI Water V - MCAA			
Site: Ash Pond (Surface Water)		Project #:		Project #:		K - EDTA W - pH 4-5		L - EDA Z - other (specify)			
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=Air)			
						Preservation Code:		DEPTH GOES HERE			
SW-3		4-27-22		0933		G		SW			
SW-4				1050				SW			
SW-4				1118				SW			
sw DIT Dup-01				0950				SW			
sw DIT Dup-01				1018				SW			
SW-5				0807				SW			
SW-5				0707				SW			
SW-5				0835				SW			
SW-5				0735				SW			
SW-6				0919				SW			
SW-6		↓ RDH		0930		↓ RDH		SW			
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
<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					<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)					Special Instructions/QC Requirements:						
Empty Kit Relinquished by:			Date:		Time:		Method of Shipment:				
Relinquished by: <i>Rick Hargis</i>			Date/Time: <i>4-28-22 1405</i>		Company: <i>RDH ENV.</i>		Received by: <i>[Signature]</i>				
Relinquished by:			Date/Time:		Company:		Received by:				
Relinquished by:			Date/Time:		Company:		Received by:				
Custody Seals Intact:		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:							
Δ Yes Δ No											



Chain of Custody Record

Client Information	Sampler: <i>Six M. Hoffer</i> <i>Trevor Braddock</i>	Lab PM: Brown, Shali	Carrier Tracking No(s):	COC No:
Client Contact:	Phone: <i>850-338-0192</i>	E-Mail: shali.brown@euoifinset.com		Page: <i>3 of 6</i>
SCS Contacts				Job #:
Company: SCS	Analysis Requested			

Address: 3535 Colonnade Pkwy Bin S 530 EC	Due Date Requested:	Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 2540C Total Dissolved Solids 300_28Day Chloride Fluoride Sulfate 6020B/7470 Custom 14 (AppIII/AppIV+8) + Mercury	Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:		
City: Birmingham	TAT Requested (days):				
State, Zip: AL, 35243	PO #:				
Phone: 205-992-6283	WO #:				
Email: SCS Contacts	Project #:				
Project Name: Plant Watson	SSOW#:	Total Number of containers DEPTH GOES HERE Special Instructions/Note:			
Site: Ash Pond (Surface Water)					

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)	Perform MS/MSD (Yes or No)	2540C Total Dissolved Solids	300_28Day Chloride Fluoride Sulfate	6020B/7470 Custom 14 (AppIII/AppIV+8) + Mercury	9915_Raz26 Radium 226	9320_Raz28 Radium 228	Combined RAD	Total Number of containers	Special Instructions/Note:
SW-6	4-27-22	0945	G	SW			X	X	X	X	X	X		Depth = 9.5 ft
SW-6		0952		SW	X		X	X	X	X	X	X		Depth = 9.5 ft
SW-9		1221		SW			X	X	X	X	X	X		Depth = 1ft
SW-9		1229		SW	X		X	X	X	X	X	X		Depth = 1ft
SW-9		1242		SW			X	X	X	X	X	X		Depth = 4ft
SW-9		1252		SW	X		X	X	X	X	X	X		Depth = 4ft
SW-10		1131		SW			X	X	X	X	X	X		Depth = 2ft
SW-10		1145		SW	X		X	X	X	X	X	X		Depth = 2ft
SW-10 <i>DUP-02</i>		1031		SW			X	X	X	X	X	X		Depth = 2ft
SW-10 <i>DUP-02</i>		1045		SW	X		X	X	X	X	X	X		Depth = 2ft
SW-11	<i>✓ RDX</i>	1058	<i>✓ SWX</i>	SW			X	X	X	X	X	X		Depth = 1ft

Possible Hazard Identification <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) <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)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: <i>Ruby Hays</i>	Date/Time: 4-28-22 1405	Company: RDT ENV.	Received by: <i>[Signature]</i>
Relinquished by:	Date/Time:	Company:	Received by:
Relinquished by:	Date/Time:	Company:	Received by:

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
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Chain of Custody Record

Client Information		Sampler: <u>RICK Hedges/Walter/Braddock</u>		Lab PM: Brown, Shali		Carrier Tracking No(s):		COC No:		
Client Contact: SCS Contacts		Phone: <u>850-336-0192</u>		E-Mail: shali.brown@euoifinset.com				Page: <u>4 of 6</u>		
Company: SCS				Analysis Requested				Job #:		
Address: 3535 Colonnade Pkwy Bin S 530 EC		Due Date Requested:		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 2540C Total Dissolved Solids 300_28Day Chloride Fluoride Sulfate 6020B/7470 Custom 14 (Appl/II/III/IV) + Mercury		9315_Ra228 Radium 226 9320_Ra228 Radium 228 Combined RAD		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:		
City: Birmingham		TAT Requested (days):								
State, Zip: AL, 35243		PO #:								
Phone: 205-992-6283		WO #:								
Email: SCS Contacts		Project #:								
Project Name: Plant Watson		SSOW#:								
Site: Ash Pond (Surface Water)										
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Preservation Code:		DEPTH GOES HERE		
								Special Instructions/Note:		
SW-11	4-27-22	1106	G	SW		X	X	X	X	Depth =
SW-11 ^{ROH}				SW			X	X	X	Depth =
SW-11 ^{ROH}				SW		X	X	X	X	Depth =
SW-12		1030		SW			X	X	X	Depth = 1ft
SW-12		1039		SW		X	X	X	X	Depth = 1ft
SW-12 ^{ROH}				SW			X	X	X	Depth =
SW-12 ^{ROH}				SW		X	X	X	X	Depth =
SW-13		1221		SW			X	X	X	Depth = 1ft
SW-13		1233		SW		X	X	X	X	Depth = 1ft
SW-13 ^{ROH}				SW			X	X	X	Depth =
SW-13 ^{ROH}				SW		X	X	X	X	Depth =
Possible Hazard Identification		<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)				
Deliverable Requested: I, II, III, IV, Other (specify)						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:				
Relinquished by: <u>[Signature]</u>		Date/Time: <u>4-28-22 1405</u>		Company: <u>NDH ENV.</u>		Received by: <u>[Signature]</u>		Date/Time: <u>4/27 9/22 1405</u>		Company: <u>[Signature]</u>
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		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:						

Chain of Custody Record

Client Information		Sampler: <i>Rick Henderson / Trevor Braddock</i>		Lab PM: Brown, Shali		Carrier Tracking No(s):		COC No:					
Client Contact:		Phone: <i>850-336-0192</i>		E-Mail: shali.brown@eurofinset.com				Page: <i>5 of 6</i>					
SCS Contacts								Job #:					
Company: SCS		Analysis Requested											
Address: 3535 Colonnade Pkwy Bin S 530 EC		Due Date Requested:		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 2640C Total Dissolved Solids 300_28Day Chloride Fluoride Sulfate 6020B/7470 Custom 14 (AppIII/APPV4-9) + Mercury		9316_Ra228 Radium 226 9320_Ra228 Radium 228 Combined RAD		Total Number of containers		Preservation Codes:			
City: Birmingham		TAT Requested (days):								A - HCL		M - Hexane	
State, Zip: AL, 35243		PO #:								B - NaOH		N - None	
Phone: 205-992-6283		WO #:								C - Zn Acetate		O - AsNaO2	
Email:		Project #:								D - Nitric Acid		P - Na2O4S	
SCS Contacts		Project #:		E - NaHSO4		Q - Na2SO3							
Project Name: Plant Watson		SSOW#:		F - MeOH		R - Na2S2O3							
Site: Ash Pond (Surface Water)				G - Amchlor		S - H2SO4							
				H - Ascorbic Acid		T - TSP Dodecahydrate							
				I - Ice		U - Acetone							
				J - DI Water		V - MCAA							
				K - EDTA		W - pH 4-5							
				L - EDA		Z - other (specify)							
								Other:					
								DEPTH GOES HERE					
								Special Instructions/Note:					
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code:				Depth =			
SW-14		4-27-22	1255	G	SW	X	X	X		1.5 ft			
SW-14			1316		SW	X	X	X		1.5 ft			
SW-14 RDH					SW	X	X	X		Depth =			
SW-14 FDH					SW	X	X	X		Depth =			
SW-15			1343		SW	X	X	X		Depth = 1.5 ft			
SW-15			1404		SW	X	X	X		Depth = 1.5 ft			
SW-15 RDH			1243		SW	X	X	X		Depth = 1.5 ft			
SW-15 RDH			1304		SW	X	X	X		Depth = 1.5 ft			
SW-16			1849		SW	X	X	X		Depth = 1.5 ft			
SW-16			1902		SW	X	X	X		Depth = 1.5 ft			
SW-16 RDH					SW	X	X	X		Depth =			
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
<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						<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)						Special Instructions/QC Requirements:							
Empty Kit Relinquished by:			Date:		Time:		Method of Shipment:						
Relinquished by: <i>Aronch Henderson</i>			Date/Time: 4-28-22 1405		Company: RDH ENV.		Received by: <i>[Signature]</i>		Date/Time: 4/29/22 1500		Company: <i>[Signature]</i>		
Relinquished by:			Date/Time:		Company:		Received by:		Date/Time:		Company:		
Relinquished by:			Date/Time:		Company:		Received by:		Date/Time:		Company:		
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks:								



Euromns TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
 Pittsburgh, PA 15238
 Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record



Environment Testing
 America

Client Information		Sampler: <i>Rick Trevor</i>		Lab PM: Brown, Shali			Carrier Tracking No(s):			COC No:									
Client Contact: <i>Hogendorn / Braddock</i>		Phone: <i>850-336-0192</i>		E-Mail: shali.brown@eurofinset.com						Page: <i>6 of 6</i>									
Company: SCS		Analysis Requested						Job #:											
Address: 3535 Colonnade Pkwy Bin S 530 EC								Due Date Requested:						Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)					
City: Birmingham								TAT Requested (days):											
State, Zip: AL, 35243		Project #: 18020186						Other:											
Phone: 205-992-6283		Project Name: Plant Watson						Special Instructions/Note:											
Email: SCS Contacts		SSOW#: Ash Pond (Surface Water)						Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 2540C Total Dissolved Solids 300_28Day Chloride Fluoride Sulfate 6020B17470 Custom 14 (AppIII/AppIV+9) + Mercury 9315_Ra226 Radium 226 9320_Ra228 Radium 228 Combined RAD Total Number of containers											
Site: Ash Pond (Surface Water)		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Preservation Code:		DEPTH GOES HERE							
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Preservation Code:		DEPTH GOES HERE							
<i>SW-16 ROH</i>												Depth =							
SW-17		<i>4-27-22</i>		<i>1006</i>		<i>G</i>		<i>SW</i>		<i>X</i>		Depth = <i>1ft</i>							
SW-17		<i>4-27-22</i>		<i>1023</i>		<i>G</i>		<i>SW</i>		<i>X</i>		Depth = <i>1ft</i>							
<i>SW-17 ROH</i>								<i>SW</i>		<i>X</i>		Depth =							
<i>SW-17 ROH</i>								<i>SW</i>		<i>X</i>		Depth =							
<i>EB-01</i>		<i>4-27-22</i>		<i>0758</i>		<i>G</i>				<i>X</i>		Depth = <i>DI water/total only</i>							
<i>EB-02</i>				<i>1617</i>						<i>X</i>		Depth =							
<i>FB-01</i>				<i>0806</i>						<i>X</i>		Depth =							
<i>FB-02</i>		<i>ROH</i>		<i>1611</i>		<i>MOH</i>				<i>X</i>		Depth = <i>ROH</i>							
										<i>X</i>		Depth =							
										<i>X</i>		Depth =							
Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)															
<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				<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)				Special Instructions/QC Requirements:															
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:													
Relinquished by: <i>Ricky</i>		Date/Time: <i>4-28-22 1405</i>		Company: <i>RSH ENV.</i>		Received by:		Date/Time:		Company:									
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:									
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:									
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:															

ORIGIN ID:PNSA (850) 336-0192

RDH ENVIRONMENTAL
5720 DOBE DR

PAGE: FL 32571
UNITED STATES US

SHIP DATE: 28APR22
ACTWT: 77.40 LB
CAD: 6994795/55FE23
DIMS: 23x13x13 IN

BILL THIRD PARTY

ORIGIN ID:PNSA (850) 336-0192

RDH ENVIRONMENTAL
5720 DOBE DR

PAGE: FL 32571
UNITED STATES US

SHIP DATE: 28APR22
ACTWT: 75.25 LB
CAD: 6994795/55FE23
DIMS: 23x13x13 IN

BILL THIRD PARTY

TO

EUROFINS
301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238

1500

PH: (412) 963-7068
MU: PO: REF: DEPT:

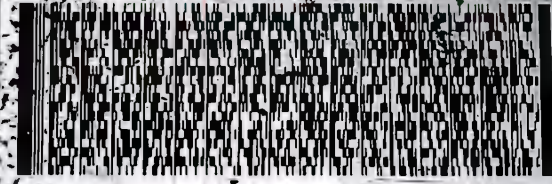
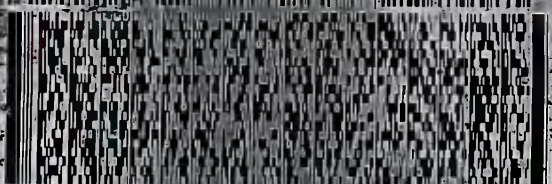
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EUROFINS
301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238

1500

PH: (412) 963-7068
MU: PO: REF: DEPT:



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TRK# 2725 5431 0512

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STANDARD OVERNIGHT

TRK# 2725 5457 0970

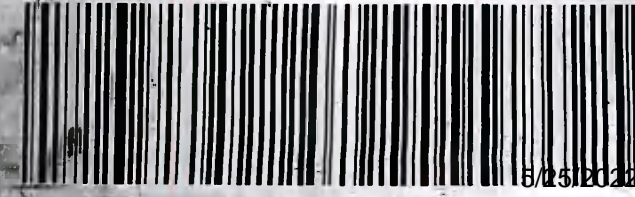
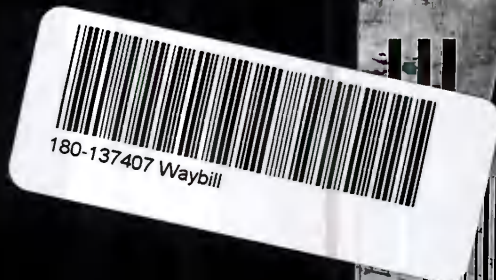
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STANDARD OVERNIGHT

UI AGCA

2.1 ct - 6.4
Thurs 16
PA-US

UI AGCA

3.2 ct - 0.1 AHS
Thurs 16
PA-US PIT



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PACE, FL 32571
UNITED STATES US

BILL THIRD PARTY

PACE, FL 32571
UNITED STATES US

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EUROFINS
301 ALPHA DR RIDG PARK

1500

PITTSBURGH PA 15238

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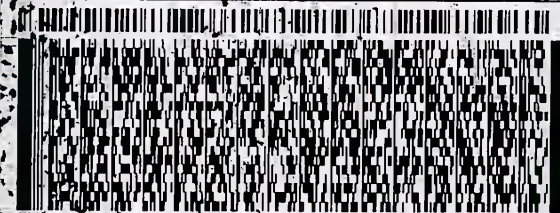
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PITTSBURGH PA 15238

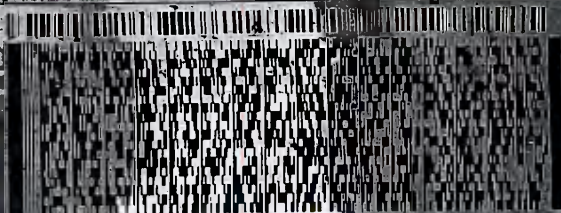
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STANDARD OVERNIGHT

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FRI - 29 APR
STANDARD OVERNIGHT

UI AGCA

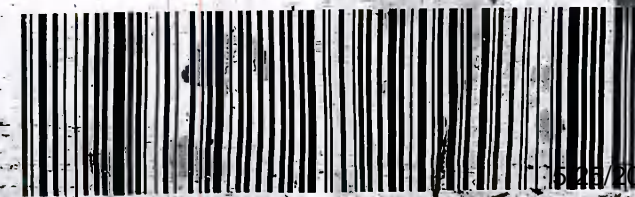
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PA-US

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3.8 Term 16
4-04

PA-US



5/28/2022

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UNITED STATES US

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TO
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DEPT:

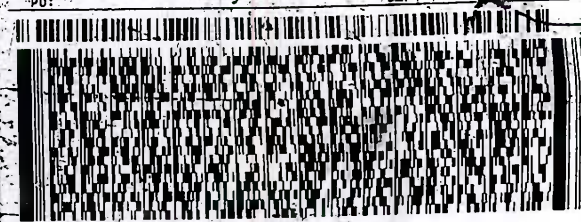
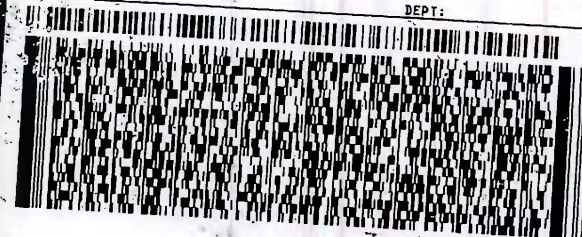
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EUROFINS
301 ALPHA DR RIDC PARK
PITTSBURGH PA 15238

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(412) 963-7068
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DEPT:



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6297435 FHE07275 EXP-09/22

TRK# 2725 5440 7780
0201

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STANDARD OVERNIGHT

UI AGCA

4.2 cr. o.y
Thank

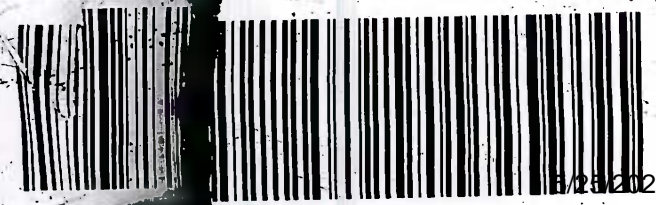
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STANDARD OVERNIGHT

UI AGCA

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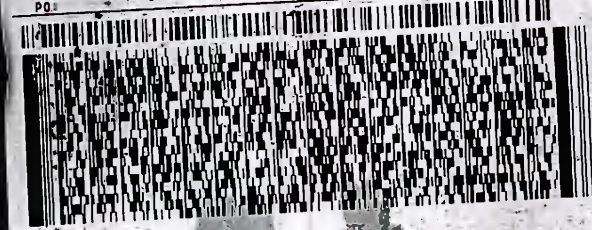
AHS
15238
PA-US PIT



TO: PNSA (850) 336-0192
ENVIRONMENTAL
301 ALPHA DR
PITTSBURGH PA 15238
UNION STATES US

SHIP DATE:
ACTWTG:
CAD: 699
DIMS: 23x13x10
BILL THIRD

SHIP DATE: 28APR22
ACTWTG: 77.35
CAD: 699495756FE230C
DIMS: 23x13x13 IN
BILL THIRD PARTY



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TRK# 2725 5427 2941
FRI - 29 APR 4:30P
STANDARD OVERNIGHT
AHS 15238
PIT
UI AGCA 3.1 9-6.9
pamls



FRI - 29 APR 4:30P
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AHS 15238
PIT
GCA 3.7 9-0.4
Therall



Part # 15R297245-THROWAWAY-EXP-08/22

ORIGIN ID:PNSA (850) 336-0192

RDH ENVIRONMENTAL
5720 DOBE DR

PACE, FL 32571
UNITED STATES US

SHIP DATE: 28APR22
ACTWGT: 73.70 LB
CAD: 6994795/SSFB
DIMS: 23x13x13 IN

BILL THIRD PARTY

ORIGIN ID:PNSA (850) 336-0192

RDH ENVIRONMENTAL
5720 DOBE DR

PACE, FL 32571
UNITED STATES US

SHIP DATE: 28APR22
ACTWGT: 65.70 LB
CAD: 6994795/SSFB
DIMS: 23x13x13 IN

BILL THIRD PARTY

TO
EUROFINS
301 ALPHA DR RIDC PARK
PITTSBURGH PA 15238

1500

(412) 963-7068

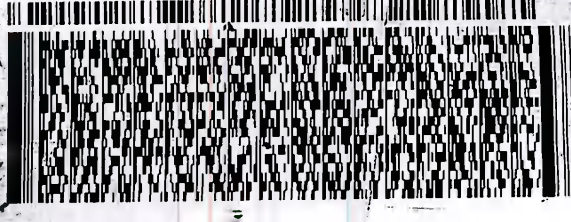
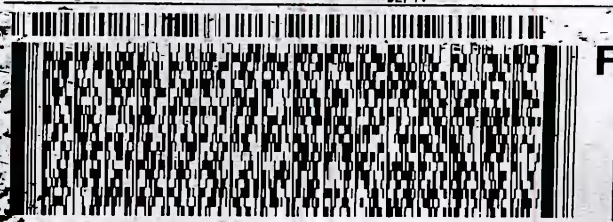
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TO
EUROFINS
301 ALPHA DR RIDC PARK
PITTSBURGH PA 15238

1500

(412) 963-7068

REF: INU: PO: DEPT:



TRK# 2725 5425 0708
0201 FRI - 29 APR
STANDARD OVERNIGHT

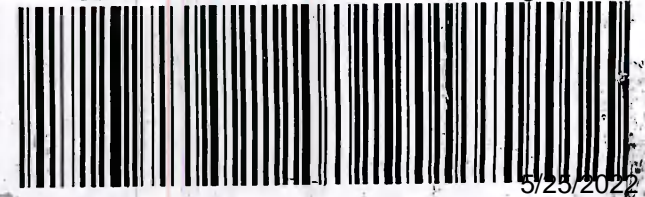
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2.1 CF-0.4

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0201 FRI - 29 APR 4:30P
STANDARD OVERNIGHT

UI AGCA

2.6 CF-0.4
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PA-US PIT
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5720 DOBE DR
PACE, FL 32571
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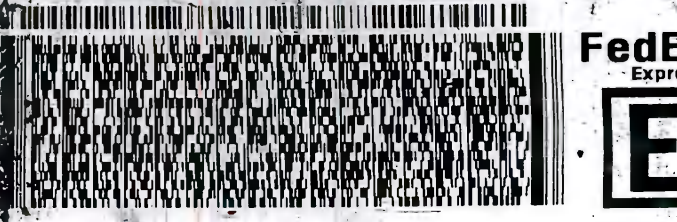
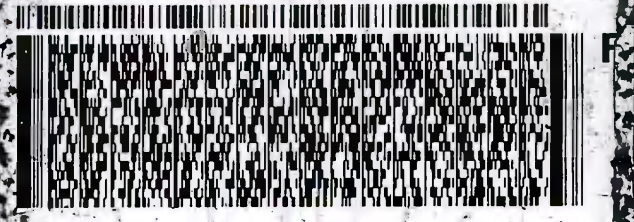
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BILL THIRD PARTY

ORIGIN ID: PNSA (850) 336-0192
RDH-ENVIRONMENTAL
5720 DOBE DR
PACE, FL 32571
UNITED STATES US

SHIP DATE: 28APR
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BILL THIRD PARTY

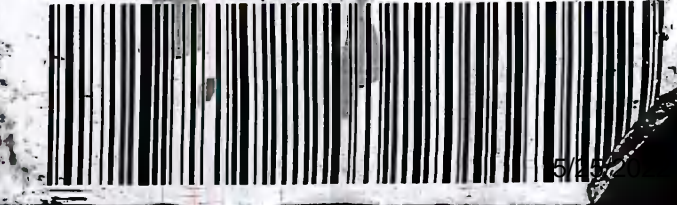
TO
EUROFINS
301 ALPHA DR RIDC PARK *1500*
PITTSBURGH PA 15238
REF: (412) 963-7068
DEPT:

TO
EUROFINS
301-ALPHA DR RIDC PARK *500*
PITTSBURGH PA 15238
REF: (412) 963-7068
DEPT:



TRK# 2725 5442 9693
FRI - 29 APR
STANDARD OVERNIGHT
UI AGCA
2.8 G-04

TRK# 2725 5451 8519
FRI - 29 APR 4:30P
STANDARD OVERNIGHT
UI AGCA *3.1 G-01*
Thank
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Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-137407-1

Login Number: 137407

List Number: 1

Creator: Abernathy, Eric L

List Source: Eurofins Pittsburgh

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	



Environment Testing
America

ANALYTICAL REPORT

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-137407-2

Client Project/Site: Plant Watson Ash Pond Surfacewater

For:
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Robert Singleton

Authorized for release by:
6/7/2022 9:32:49 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@et.eurofinsus.com

LINKS

Review your project
results through



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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416

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Case Narrative

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Job ID: 180-137407-2

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-137407-2

Receipt

The samples were received on 4/29/2022 3:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 12 coolers at receipt time were 1.7°C, 1.7°C, 2.2°C, 2.4°C, 2.7°C, 2.7°C, 2.8°C, 3.3°C, 3.4°C, 3.4°C, 3.4°C and 3.8°C

Gas Flow Proportional Counter

Method 9315_Ra226: Radium-226 Prep Batch 160-563754The following samples were prepared at a reduced aliquot due to Matrix: SW-1 (180-137407-1), SW-1 (180-137407-2), SW-1 (180-137407-3), SW-1 (180-137407-4), SW-2 (180-137407-5), SW-2 (180-137407-6), SW-2 (180-137407-7), SW-2 (180-137407-8), SW-3 (180-137407-9), SW-3 (180-137407-10), SW-3 (180-137407-11), SW-3 (180-137407-12), SW-4 (180-137407-13), SW-4 (180-137407-14), DUP-01 (180-137407-15), DUP-01 (180-137407-16), SW-5 (180-137407-17), SW-5 (180-137407-18), SW-5 (180-137407-19) and SW-5 (180-137407-20). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method 9315_Ra226: Radium-226 Prep Batch 160-563866The following samples were prepared at a reduced aliquot due to Matrix: SW-6 (180-137407-21), SW-6 (180-137407-22), SW-6 (180-137407-23), SW-6 (180-137407-24), SW-9 (180-137407-25), SW-9 (180-137407-26), SW-9 (180-137407-27), SW-9 (180-137407-28), SW-10 (180-137407-29), SW-10 (180-137407-30), DUP-02 (180-137407-31), DUP-02 (180-137407-32), SW-11 (180-137407-33), SW-11 (180-137407-34), SW-12 (180-137407-35), SW-12 (180-137407-36), SW-13 (180-137407-37), SW-13 (180-137407-38), SW-14 (180-137407-39) and SW-14 (180-137407-40). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method 9315_Ra226: Radium-226 Prep Batch 160-563891The following samples were prepared at a reduced aliquot due to Matrix: SW-15 (180-137407-41), SW-15 (180-137407-42), DUP-03 (180-137407-43), DUP-03 (180-137407-44), SW-16 (180-137407-45), SW-16 (180-137407-46), SW-17 (180-137407-47) and SW-17 (180-137407-48). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method 9315_Ra226: Radium-226 batch 563891Any 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.SW-15 (180-137407-41), SW-15 (180-137407-42), DUP-03 (180-137407-43), DUP-03 (180-137407-44), SW-16 (180-137407-45), SW-16 (180-137407-46), SW-17 (180-137407-47), SW-17 (180-137407-48), EB-01 (180-137407-49), EB-02 (180-137407-50), FB-01 (180-137407-51), FB-02 (180-137407-52), (LCS 160-563891/1-A), (LCSD 160-563891/2-A) and (MB 160-563891/21-A)

Method 9315_Ra226: Radium-226 batch 563754Any 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 DateSW-1 (180-137407-1), SW-1 (180-137407-2), SW-1 (180-137407-3), SW-1 (180-137407-4), SW-2 (180-137407-5), SW-2 (180-137407-6), SW-2 (180-137407-7), SW-2 (180-137407-8), SW-3 (180-137407-9), SW-3 (180-137407-10), SW-3 (180-137407-11), SW-3 (180-137407-12), SW-4 (180-137407-13), SW-4 (180-137407-14), DUP-01 (180-137407-15), DUP-01 (180-137407-16), SW-5 (180-137407-17), SW-5 (180-137407-18), SW-5 (180-137407-19), SW-5 (180-137407-20), (LCS 160-563754/1-A), (LCSD 160-563754/2-A) and (MB 160-563754/23-A)

Method 9315_Ra226: Radium-226 batch 563866Any 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 DateSW-6 (180-137407-21), SW-6 (180-137407-22), SW-6 (180-137407-23), SW-6 (180-137407-24), SW-9 (180-137407-25), SW-9 (180-137407-26), SW-9 (180-137407-27), SW-9 (180-137407-28), SW-10 (180-137407-29), SW-10 (180-137407-30), DUP-02 (180-137407-31), DUP-02 (180-137407-32), SW-11 (180-137407-33), SW-11 (180-137407-34), SW-12 (180-137407-35), SW-12 (180-137407-36), SW-13 (180-137407-37), SW-13 (180-137407-38), SW-14 (180-137407-39), SW-14 (180-137407-40), (LCS 160-563866/1-A), (LCSD 160-563866/2-A) and (MB 160-563866/23-A)

Method 9315_Ra226: Radium-226 Prep Batch 160-563754The following samples were prepared at a reduced aliquot due to Matrix: SW-1

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Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Job ID: 180-137407-2 (Continued)

Laboratory: Eurofins Pittsburgh (Continued)

(180-137407-1), SW-1 (180-137407-2), SW-1 (180-137407-3), SW-1 (180-137407-4), SW-2 (180-137407-5), SW-2 (180-137407-6), SW-2 (180-137407-7), SW-2 (180-137407-8), SW-3 (180-137407-9), SW-3 (180-137407-10), SW-3 (180-137407-11), SW-3 (180-137407-12), SW-4 (180-137407-13), SW-4 (180-137407-14), DUP-01 (180-137407-15), DUP-01 (180-137407-16), SW-5 (180-137407-17), SW-5 (180-137407-18), SW-5 (180-137407-19) and SW-5 (180-137407-20). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method 9315_Ra226: Radium-226 Prep Batch 160-563866The following samples were prepared at a reduced aliquot due to Matrix: SW-6 (180-137407-21), SW-6 (180-137407-22), SW-6 (180-137407-23), SW-6 (180-137407-24), SW-9 (180-137407-25), SW-9 (180-137407-26), SW-9 (180-137407-27), SW-9 (180-137407-28), SW-10 (180-137407-29), SW-10 (180-137407-30), DUP-02 (180-137407-31), DUP-02 (180-137407-32), SW-11 (180-137407-33), SW-11 (180-137407-34), SW-12 (180-137407-35), SW-12 (180-137407-36), SW-13 (180-137407-37), SW-13 (180-137407-38), SW-14 (180-137407-39) and SW-14 (180-137407-40). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method 9315_Ra226: Radium-226 Prep Batch 160-563891The following samples were prepared at a reduced aliquot due to Matrix: SW-15 (180-137407-41), SW-15 (180-137407-42), DUP-03 (180-137407-43), DUP-03 (180-137407-44), SW-16 (180-137407-45), SW-16 (180-137407-46), SW-17 (180-137407-47) and SW-17 (180-137407-48). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method 9315_Ra226: Radium-226 batch 563891Any 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.SW-15 (180-137407-41), SW-15 (180-137407-42), DUP-03 (180-137407-43), DUP-03 (180-137407-44), SW-16 (180-137407-45), SW-16 (180-137407-46), SW-17 (180-137407-47), SW-17 (180-137407-48), EB-01 (180-137407-49), EB-02 (180-137407-50), FB-01 (180-137407-51), FB-02 (180-137407-52), (LCS 160-563891/1-A), (LCSD 160-563891/2-A) and (MB 160-563891/21-A)

Method 9315_Ra226: Radium-226 batch 563754Any 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 DateSW-1 (180-137407-1), SW-1 (180-137407-2), SW-1 (180-137407-3), SW-1 (180-137407-4), SW-2 (180-137407-5), SW-2 (180-137407-6), SW-2 (180-137407-7), SW-2 (180-137407-8), SW-3 (180-137407-9), SW-3 (180-137407-10), SW-3 (180-137407-11), SW-3 (180-137407-12), SW-4 (180-137407-13), SW-4 (180-137407-14), DUP-01 (180-137407-15), DUP-01 (180-137407-16), SW-5 (180-137407-17), SW-5 (180-137407-18), SW-5 (180-137407-19), SW-5 (180-137407-20), (LCS 160-563754/1-A), (LCSD 160-563754/2-A) and (MB 160-563754/23-A)

Method 9315_Ra226: Radium-226 batch 563866Any 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 DateSW-6 (180-137407-21), SW-6 (180-137407-22), SW-6 (180-137407-23), SW-6 (180-137407-24), SW-9 (180-137407-25), SW-9 (180-137407-26), SW-9 (180-137407-27), SW-9 (180-137407-28), SW-10 (180-137407-29), SW-10 (180-137407-30), DUP-02 (180-137407-31), DUP-02 (180-137407-32), SW-11 (180-137407-33), SW-11 (180-137407-34), SW-12 (180-137407-35), SW-12 (180-137407-36), SW-13 (180-137407-37), SW-13 (180-137407-38), SW-14 (180-137407-39), SW-14 (180-137407-40), (LCS 160-563866/1-A), (LCSD 160-563866/2-A) and (MB 160-563866/23-A)

Method 9320_Ra228: Radium-228 Prep Batch 160-563865The following samples were prepared at a reduced aliquot due to Matrix: SW-1 (180-137407-1), SW-1 (180-137407-2), SW-1 (180-137407-3), SW-1 (180-137407-4), SW-2 (180-137407-5), SW-2 (180-137407-6), SW-2 (180-137407-7), SW-2 (180-137407-8), SW-3 (180-137407-9), SW-3 (180-137407-10), SW-3 (180-137407-11), SW-3 (180-137407-12), SW-4 (180-137407-13), SW-4 (180-137407-14), DUP-01 (180-137407-15), DUP-01 (180-137407-16), SW-5 (180-137407-17), SW-5 (180-137407-18), SW-5 (180-137407-19) and SW-5 (180-137407-20). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method 9320_Ra228: Radium-228 Prep Batch 160-563868The following samples were prepared at a reduced aliquot due to Matrix: SW-6 (180-137407-21), SW-6 (180-137407-22), SW-6 (180-137407-23), SW-6 (180-137407-24), SW-9 (180-137407-25), SW-9 (180-137407-26), SW-9 (180-137407-27), SW-9 (180-137407-28), SW-10 (180-137407-29), SW-10 (180-137407-30), DUP-02

Case Narrative

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Job ID: 180-137407-2 (Continued)

Laboratory: Eurofins Pittsburgh (Continued)

(180-137407-31), DUP-02 (180-137407-32), SW-11 (180-137407-33), SW-11 (180-137407-34), SW-12 (180-137407-35), SW-12 (180-137407-36), SW-13 (180-137407-37), SW-13 (180-137407-38), SW-14 (180-137407-39) and SW-14 (180-137407-40). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method 9320_Ra228: Radium-228 Prep Batch 160-563895The following samples were prepared at a reduced aliquot due to Matrix: SW-15 (180-137407-41), SW-15 (180-137407-42), DUP-03 (180-137407-43), DUP-03 (180-137407-44), SW-16 (180-137407-45), SW-16 (180-137407-46), SW-17 (180-137407-47) and SW-17 (180-137407-48). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method 9320_Ra228: Radium-228 batch 563895Any 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.SW-15 (180-137407-41), SW-15 (180-137407-42), DUP-03 (180-137407-43), DUP-03 (180-137407-44), SW-16 (180-137407-45), SW-16 (180-137407-46), SW-17 (180-137407-47), SW-17 (180-137407-48), EB-01 (180-137407-49), EB-02 (180-137407-50), FB-01 (180-137407-51), FB-02 (180-137407-52), (LCS 160-563895/1-A), (LCSD 160-563895/2-A) and (MB 160-563895/21-A)

Method 9320_Ra228: Radium-228 batch 563865The detection goal was not met for the following sample(s). Samples were prepped at a reduced volume due to the presence of matrix interferences: SW-1 (180-137407-3), SW-2 (180-137407-5), SW-2 (180-137407-7) and DUP-01 (180-137407-15). Analytical results are reported with the detection limit achieved.

Method 9320_Ra228: Radium-228 batch 563865Any 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 DateSW-1 (180-137407-1), SW-1 (180-137407-2), SW-1 (180-137407-3), SW-1 (180-137407-4), SW-2 (180-137407-5), SW-2 (180-137407-6), SW-2 (180-137407-7), SW-2 (180-137407-8), SW-3 (180-137407-9), SW-3 (180-137407-10), SW-3 (180-137407-11), SW-3 (180-137407-12), SW-4 (180-137407-13), SW-4 (180-137407-14), DUP-01 (180-137407-15), DUP-01 (180-137407-16), SW-5 (180-137407-17), SW-5 (180-137407-18), SW-5 (180-137407-19), SW-5 (180-137407-20), (LCS 160-563865/1-A), (LCSD 160-563865/2-A) and (MB 160-563865/23-A)

Method 9320_Ra228: Radium-228 batch 563868The detection goal was not met for the following sample(s). Sample was prepped at a reduced volume due to the presence of matrix interferences: SW-9 (180-137407-25). Analytical results are reported with the detection limit achieved.

Method 9320_Ra228: Radium-228 batch 563868Any 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 DateSW-6 (180-137407-21), SW-6 (180-137407-22), SW-6 (180-137407-23), SW-6 (180-137407-24), SW-9 (180-137407-25), SW-9 (180-137407-26), SW-9 (180-137407-27), SW-9 (180-137407-28), SW-10 (180-137407-29), SW-10 (180-137407-30), DUP-02 (180-137407-31), DUP-02 (180-137407-32), SW-11 (180-137407-33), SW-11 (180-137407-34), SW-12 (180-137407-35), SW-12 (180-137407-36), SW-13 (180-137407-37), SW-13 (180-137407-38), SW-14 (180-137407-39), SW-14 (180-137407-40), (LCS 160-563868/1-A), (LCSD 160-563868/2-A) and (MB 160-563868/23-A)

Method 9320_Ra228: Radium-228 Prep Batch 160-563865The following samples were prepared at a reduced aliquot due to Matrix: SW-1 (180-137407-1), SW-1 (180-137407-2), SW-1 (180-137407-3), SW-1 (180-137407-4), SW-2 (180-137407-5), SW-2 (180-137407-6), SW-2 (180-137407-7), SW-2 (180-137407-8), SW-3 (180-137407-9), SW-3 (180-137407-10), SW-3 (180-137407-11), SW-3 (180-137407-12), SW-4 (180-137407-13), SW-4 (180-137407-14), DUP-01 (180-137407-15), DUP-01 (180-137407-16), SW-5 (180-137407-17), SW-5 (180-137407-18), SW-5 (180-137407-19) and SW-5 (180-137407-20). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method 9320_Ra228: Radium-228 Prep Batch 160-563868The following samples were prepared at a reduced aliquot due to Matrix: SW-6 (180-137407-21), SW-6 (180-137407-22), SW-6 (180-137407-23), SW-6 (180-137407-24), SW-9 (180-137407-25), SW-9 (180-137407-26), SW-9 (180-137407-27), SW-9 (180-137407-28), SW-10 (180-137407-29), SW-10 (180-137407-30), DUP-02 (180-137407-31), DUP-02 (180-137407-32), SW-11 (180-137407-33), SW-11 (180-137407-34), SW-12 (180-137407-35), SW-12

Case Narrative

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

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Job ID: 180-137407-2 (Continued)

Laboratory: Eurofins Pittsburgh (Continued)

(180-137407-36), SW-13 (180-137407-37), SW-13 (180-137407-38), SW-14 (180-137407-39) and SW-14 (180-137407-40). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method 9320_Ra228: Radium-228 Prep Batch 160-563895The following samples were prepared at a reduced aliquot due to Matrix: SW-15 (180-137407-41), SW-15 (180-137407-42), DUP-03 (180-137407-43), DUP-03 (180-137407-44), SW-16 (180-137407-45), SW-16 (180-137407-46), SW-17 (180-137407-47) and SW-17 (180-137407-48). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method 9320_Ra228: Radium-228 batch 563895Any 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.SW-15 (180-137407-41), SW-15 (180-137407-42), DUP-03 (180-137407-43), DUP-03 (180-137407-44), SW-16 (180-137407-45), SW-16 (180-137407-46), SW-17 (180-137407-47), SW-17 (180-137407-48), EB-01 (180-137407-49), EB-02 (180-137407-50), FB-01 (180-137407-51), FB-02 (180-137407-52), (LCS 160-563895/1-A), (LCSD 160-563895/2-A) and (MB 160-563895/21-A)

Method 9320_Ra228: Radium-228 batch 563865The detection goal was not met for the following sample(s). Samples were prepped at a reduced volume due to the presence of matrix interferences: SW-1 (180-137407-3), SW-2 (180-137407-5), SW-2 (180-137407-7) and DUP-01 (180-137407-15). Analytical results are reported with the detection limit achieved.

Method 9320_Ra228: Radium-228 batch 563865Any 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 DateSW-1 (180-137407-1), SW-1 (180-137407-2), SW-1 (180-137407-3), SW-1 (180-137407-4), SW-2 (180-137407-5), SW-2 (180-137407-6), SW-2 (180-137407-7), SW-2 (180-137407-8), SW-3 (180-137407-9), SW-3 (180-137407-10), SW-3 (180-137407-11), SW-3 (180-137407-12), SW-4 (180-137407-13), SW-4 (180-137407-14), DUP-01 (180-137407-15), DUP-01 (180-137407-16), SW-5 (180-137407-17), SW-5 (180-137407-18), SW-5 (180-137407-19), SW-5 (180-137407-20), (LCS 160-563865/1-A), (LCSD 160-563865/2-A) and (MB 160-563865/23-A)

Method 9320_Ra228: Radium-228 batch 563868The detection goal was not met for the following sample(s). Sample was prepped at a reduced volume due to the presence of matrix interferences: SW-9 (180-137407-25). Analytical results are reported with the detection limit achieved.

Method 9320_Ra228: Radium-228 batch 563868Any 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 DateSW-6 (180-137407-21), SW-6 (180-137407-22), SW-6 (180-137407-23), SW-6 (180-137407-24), SW-9 (180-137407-25), SW-9 (180-137407-26), SW-9 (180-137407-27), SW-9 (180-137407-28), SW-10 (180-137407-29), SW-10 (180-137407-30), DUP-02 (180-137407-31), DUP-02 (180-137407-32), SW-11 (180-137407-33), SW-11 (180-137407-34), SW-12 (180-137407-35), SW-12 (180-137407-36), SW-13 (180-137407-37), SW-13 (180-137407-38), SW-14 (180-137407-39), SW-14 (180-137407-40), (LCS 160-563868/1-A), (LCSD 160-563868/2-A) and (MB 160-563868/23-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 Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
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 Watson Ash Pond Surfacewater

Job ID: 180-137407-2

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	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	07-01-22
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-23
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	NELAP	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

Sample Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-137407-1	SW-1	Water	04/27/22 17:36	04/29/22 15:00
180-137407-2	SW-1	Water	04/27/22 17:43	04/29/22 15:00
180-137407-3	SW-1	Water	04/27/22 17:51	04/29/22 15:00
180-137407-4	SW-1	Water	04/27/22 17:57	04/29/22 15:00
180-137407-5	SW-2	Water	04/27/22 16:49	04/29/22 15:00
180-137407-6	SW-2	Water	04/27/22 17:03	04/29/22 15:00
180-137407-7	SW-2	Water	04/27/22 17:13	04/29/22 15:00
180-137407-8	SW-2	Water	04/27/22 17:21	04/29/22 15:00
180-137407-9	SW-3	Water	04/27/22 08:42	04/29/22 15:00
180-137407-10	SW-3	Water	04/27/22 09:02	04/29/22 15:00
180-137407-11	SW-3	Water	04/27/22 09:20	04/29/22 15:00
180-137407-12	SW-3	Water	04/27/22 09:33	04/29/22 15:00
180-137407-13	SW-4	Water	04/27/22 10:50	04/29/22 15:00
180-137407-14	SW-4	Water	04/27/22 11:18	04/29/22 15:00
180-137407-15	DUP-01	Water	04/27/22 09:50	04/29/22 15:00
180-137407-16	DUP-01	Water	04/27/22 10:18	04/29/22 15:00
180-137407-17	SW-5	Water	04/27/22 08:07	04/29/22 15:00
180-137407-18	SW-5	Water	04/27/22 07:07	04/29/22 15:00
180-137407-19	SW-5	Water	04/27/22 08:35	04/29/22 15:00
180-137407-20	SW-5	Water	04/27/22 07:35	04/29/22 15:00
180-137407-21	SW-6	Water	04/27/22 09:19	04/29/22 15:00
180-137407-22	SW-6	Water	04/27/22 09:30	04/29/22 15:00
180-137407-23	SW-6	Water	04/27/22 09:45	04/29/22 15:00
180-137407-24	SW-6	Water	04/27/22 09:52	04/29/22 15:00
180-137407-25	SW-9	Water	04/27/22 12:21	04/29/22 15:00
180-137407-26	SW-9	Water	04/27/22 12:29	04/29/22 15:00
180-137407-27	SW-9	Water	04/27/22 12:42	04/29/22 15:00
180-137407-28	SW-9	Water	04/27/22 12:52	04/29/22 15:00
180-137407-29	SW-10	Water	04/27/22 11:31	04/29/22 15:00
180-137407-30	SW-10	Water	04/27/22 11:45	04/29/22 15:00
180-137407-31	DUP-02	Water	04/27/22 10:31	04/29/22 15:00
180-137407-32	DUP-02	Water	04/27/22 10:45	04/29/22 15:00
180-137407-33	SW-11	Water	04/27/22 10:58	04/29/22 15:00
180-137407-34	SW-11	Water	04/27/22 11:06	04/29/22 15:00
180-137407-35	SW-12	Water	04/27/22 10:30	04/29/22 15:00
180-137407-36	SW-12	Water	04/27/22 10:39	04/29/22 15:00
180-137407-37	SW-13	Water	04/27/22 12:21	04/29/22 15:00
180-137407-38	SW-13	Water	04/27/22 12:33	04/29/22 15:00
180-137407-39	SW-14	Water	04/27/22 12:55	04/29/22 15:00
180-137407-40	SW-14	Water	04/27/22 13:16	04/29/22 15:00
180-137407-41	SW-15	Water	04/27/22 13:43	04/29/22 15:00
180-137407-42	SW-15	Water	04/27/22 14:04	04/29/22 15:00
180-137407-43	DUP-03	Water	04/27/22 12:43	04/29/22 15:00
180-137407-44	DUP-03	Water	04/27/22 13:04	04/29/22 15:00
180-137407-45	SW-16	Water	04/27/22 18:49	04/29/22 15:00
180-137407-46	SW-16	Water	04/27/22 19:02	04/29/22 15:00
180-137407-47	SW-17	Water	04/27/22 10:06	04/29/22 15:00
180-137407-48	SW-17	Water	04/27/22 10:23	04/29/22 15:00
180-137407-49	EB-01	Water	04/27/22 07:58	04/29/22 15:00
180-137407-50	EB-02	Water	04/27/22 16:17	04/29/22 15:00
180-137407-51	FB-01	Water	04/27/22 08:06	04/29/22 15:00
180-137407-52	FB-02	Water	04/27/22 16:11	04/29/22 15:00



Method Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

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

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

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-1

Lab Sample ID: 180-137407-1

Date Collected: 04/27/22 17:36

Matrix: Water

Date Received: 04/29/22 15:00

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			743.80 mL	1.0 g	563754	05/05/22 08:56	MS	TAL SL
Total/NA	Analysis	9315		1			568747	06/06/22 19:54	JCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			743.80 mL	1.0 g	563865	05/05/22 09:33	MS	TAL SL
Total/NA	Analysis	9320		1			568629	06/06/22 12:26	CLP	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			568862	06/07/22 15:43	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-1

Lab Sample ID: 180-137407-2

Date Collected: 04/27/22 17:43

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			742.70 mL	1.0 g	563754	05/05/22 08:56	MS	TAL SL
Dissolved	Analysis	9315		1			568747	06/06/22 19:55	JCB	TAL SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			742.70 mL	1.0 g	563865	05/05/22 09:33	MS	TAL SL
Dissolved	Analysis	9320		1			568629	06/06/22 12:26	CLP	TAL SL
Instrument ID: GFPCPURPLE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			568861	06/07/22 15:42	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-1

Lab Sample ID: 180-137407-3

Date Collected: 04/27/22 17:51

Matrix: Water

Date Received: 04/29/22 15:00

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			745.12 mL	1.0 g	563754	05/05/22 08:56	MS	TAL SL
Total/NA	Analysis	9315		1			568747	06/06/22 19:55	JCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			745.12 mL	1.0 g	563865	05/05/22 09:33	MS	TAL SL
Total/NA	Analysis	9320		1			568629	06/06/22 12:26	CLP	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			568862	06/07/22 15:43	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-1

Lab Sample ID: 180-137407-4

Date Collected: 04/27/22 17:57

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			747.52 mL	1.0 g	563754	05/05/22 08:56	MS	TAL SL
Dissolved	Analysis	9315		1			568747	06/06/22 19:56	JCB	TAL SL
Instrument ID: GFPCRED										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-1

Lab Sample ID: 180-137407-4

Date Collected: 04/27/22 17:57

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep_0			747.52 mL	1.0 g	563865	05/05/22 09:33	MS	TAL SL
Dissolved	Analysis	9320		1			568629	06/06/22 12:26	CLP	TAL SL
Instrument ID: GFPCPURPLE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			568861	06/07/22 15:42	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-2

Lab Sample ID: 180-137407-5

Date Collected: 04/27/22 16:49

Matrix: Water

Date Received: 04/29/22 15:00

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			743.87 mL	1.0 g	563754	05/05/22 08:56	MS	TAL SL
Total/NA	Analysis	9315		1			568747	06/06/22 19:56	JCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			743.87 mL	1.0 g	563865	05/05/22 09:33	MS	TAL SL
Total/NA	Analysis	9320		1			568629	06/06/22 12:26	CLP	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			568862	06/07/22 15:43	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-2

Lab Sample ID: 180-137407-6

Date Collected: 04/27/22 17:03

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			749.06 mL	1.0 g	563754	05/05/22 08:56	MS	TAL SL
Dissolved	Analysis	9315		1			568747	06/06/22 19:56	JCB	TAL SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			749.06 mL	1.0 g	563865	05/05/22 09:33	MS	TAL SL
Dissolved	Analysis	9320		1			568629	06/06/22 12:27	CLP	TAL SL
Instrument ID: GFPCPURPLE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			568861	06/07/22 15:42	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-2

Lab Sample ID: 180-137407-7

Date Collected: 04/27/22 17:13

Matrix: Water

Date Received: 04/29/22 15:00

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			747.52 mL	1.0 g	563754	05/05/22 08:56	MS	TAL SL
Total/NA	Analysis	9315		1			568747	06/06/22 19:56	JCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			747.52 mL	1.0 g	563865	05/05/22 09:33	MS	TAL SL
Total/NA	Analysis	9320		1			568629	06/06/22 12:28	CLP	TAL SL
Instrument ID: GFPCPURPLE										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-2

Date Collected: 04/27/22 17:13

Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-7

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			568862	06/07/22 15:43	SCB	TAL SL

Client Sample ID: SW-2

Date Collected: 04/27/22 17:21

Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			749.71 mL	1.0 g	563754	05/05/22 08:56	MS	TAL SL
Dissolved	Analysis	9315		1			568747	06/06/22 19:56	JCB	TAL SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			749.71 mL	1.0 g	563865	05/05/22 09:33	MS	TAL SL
Dissolved	Analysis	9320		1			568629	06/06/22 12:28	CLP	TAL SL
Instrument ID: GFPCPURPLE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			568861	06/07/22 15:42	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-3

Date Collected: 04/27/22 08:42

Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-9

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			748.56 mL	1.0 g	563754	05/05/22 08:56	MS	TAL SL
Total/NA	Analysis	9315		1			568747	06/06/22 21:40	JCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			748.56 mL	1.0 g	563865	05/05/22 09:33	MS	TAL SL
Total/NA	Analysis	9320		1			568629	06/06/22 12:29	CLP	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			568862	06/07/22 15:43	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-3

Date Collected: 04/27/22 09:02

Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			754.63 mL	1.0 g	563754	05/05/22 08:56	MS	TAL SL
Dissolved	Analysis	9315		1			568747	06/06/22 21:40	JCB	TAL SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			754.63 mL	1.0 g	563865	05/05/22 09:33	MS	TAL SL
Dissolved	Analysis	9320		1			568638	06/06/22 12:41	CLP	TAL SL
Instrument ID: GFPCORANGE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			568861	06/07/22 15:42	SCB	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-3

Lab Sample ID: 180-137407-11

Date Collected: 04/27/22 09:20

Matrix: Water

Date Received: 04/29/22 15:00

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			754.25 mL	1.0 g	563754	05/05/22 08:56	MS	TAL SL
Total/NA	Analysis	9315		1			568747	06/06/22 21:40	JCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			754.25 mL	1.0 g	563865	05/05/22 09:33	MS	TAL SL
Total/NA	Analysis	9320		1			568638	06/06/22 12:41	CLP	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			568862	06/07/22 15:43	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-3

Lab Sample ID: 180-137407-12

Date Collected: 04/27/22 09:33

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			747.90 mL	1.0 g	563754	05/05/22 08:56	MS	TAL SL
Dissolved	Analysis	9315		1			568747	06/06/22 21:41	JCB	TAL SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			747.90 mL	1.0 g	563865	05/05/22 09:33	MS	TAL SL
Dissolved	Analysis	9320		1			568638	06/06/22 12:41	CLP	TAL SL
Instrument ID: GFPCORANGE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			568861	06/07/22 15:42	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-4

Lab Sample ID: 180-137407-13

Date Collected: 04/27/22 10:50

Matrix: Water

Date Received: 04/29/22 15:00

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			753.96 mL	1.0 g	563754	05/05/22 08:56	MS	TAL SL
Total/NA	Analysis	9315		1			568747	06/06/22 21:41	JCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			753.96 mL	1.0 g	563865	05/05/22 09:33	MS	TAL SL
Total/NA	Analysis	9320		1			568638	06/06/22 12:41	CLP	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			568862	06/07/22 15:43	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-4

Lab Sample ID: 180-137407-14

Date Collected: 04/27/22 11:18

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.70 mL	1.0 g	563754	05/05/22 08:56	MS	TAL SL
Dissolved	Analysis	9315		1			568747	06/06/22 21:41	JCB	TAL SL
Instrument ID: GFPCRED										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-4

Lab Sample ID: 180-137407-14

Date Collected: 04/27/22 11:18

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep_0			750.70 mL	1.0 g	563865	05/05/22 09:33	MS	TAL SL
Dissolved	Analysis	9320		1			568638	06/06/22 12:42	CLP	TAL SL
Instrument ID: GFPCORANGE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			568861	06/07/22 15:42	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-01

Lab Sample ID: 180-137407-15

Date Collected: 04/27/22 09:50

Matrix: Water

Date Received: 04/29/22 15:00

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			744.20 mL	1.0 g	563754	05/05/22 08:56	MS	TAL SL
Total/NA	Analysis	9315		1			568747	06/06/22 21:41	JCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			744.20 mL	1.0 g	563865	05/05/22 09:33	MS	TAL SL
Total/NA	Analysis	9320		1			568638	06/06/22 12:42	CLP	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			568862	06/07/22 15:43	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-01

Lab Sample ID: 180-137407-16

Date Collected: 04/27/22 10:18

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			744.78 mL	1.0 g	563754	05/05/22 08:56	MS	TAL SL
Dissolved	Analysis	9315		1			568747	06/06/22 21:41	JCB	TAL SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			744.78 mL	1.0 g	563865	05/05/22 09:33	MS	TAL SL
Dissolved	Analysis	9320		1			568638	06/06/22 12:42	CLP	TAL SL
Instrument ID: GFPCORANGE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			568861	06/07/22 15:42	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-5

Lab Sample ID: 180-137407-17

Date Collected: 04/27/22 08:07

Matrix: Water

Date Received: 04/29/22 15:00

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			756.37 mL	1.0 g	563754	05/05/22 08:56	MS	TAL SL
Total/NA	Analysis	9315		1			568747	06/06/22 21:41	JCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			756.37 mL	1.0 g	563865	05/05/22 09:33	MS	TAL SL
Total/NA	Analysis	9320		1			568638	06/06/22 12:42	CLP	TAL SL
Instrument ID: GFPCORANGE										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-5

Lab Sample ID: 180-137407-17

Date Collected: 04/27/22 08:07

Matrix: Water

Date Received: 04/29/22 15:00

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			568862	06/07/22 15:43	SCB	TAL SL

Client Sample ID: SW-5

Lab Sample ID: 180-137407-18

Date Collected: 04/27/22 07:07

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			751.79 mL	1.0 g	563754	05/05/22 08:56	MS	TAL SL
Dissolved	Analysis	9315		1			568747	06/06/22 21:42	JCB	TAL SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			751.79 mL	1.0 g	563865	05/05/22 09:33	MS	TAL SL
Dissolved	Analysis	9320		1			568638	06/06/22 12:42	CLP	TAL SL
Instrument ID: GFPCORANGE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			568861	06/07/22 15:42	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-5

Lab Sample ID: 180-137407-19

Date Collected: 04/27/22 08:35

Matrix: Water

Date Received: 04/29/22 15:00

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			748.21 mL	1.0 g	563754	05/05/22 08:56	MS	TAL SL
Total/NA	Analysis	9315		1			568747	06/06/22 22:00	JCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			748.21 mL	1.0 g	563865	05/05/22 09:33	MS	TAL SL
Total/NA	Analysis	9320		1			568638	06/06/22 12:43	CLP	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			568862	06/07/22 15:43	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-5

Lab Sample ID: 180-137407-20

Date Collected: 04/27/22 07:35

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			751.80 mL	1.0 g	563754	05/05/22 08:56	MS	TAL SL
Dissolved	Analysis	9315		1			568747	06/06/22 22:00	JCB	TAL SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			751.80 mL	1.0 g	563865	05/05/22 09:33	MS	TAL SL
Dissolved	Analysis	9320		1			568638	06/06/22 12:43	CLP	TAL SL
Instrument ID: GFPCORANGE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			568861	06/07/22 15:42	SCB	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-6

Lab Sample ID: 180-137407-21

Date Collected: 04/27/22 09:19

Matrix: Water

Date Received: 04/29/22 15:00

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			746.72 mL	1.0 g	563866	05/05/22 09:37	MS	TAL SL
Total/NA	Analysis	9315		1			568747	06/06/22 22:01	JCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			746.72 mL	1.0 g	563868	05/05/22 10:02	MS	TAL SL
Total/NA	Analysis	9320		1			568638	06/06/22 12:46	CLP	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			568859	06/07/22 15:41	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-6

Lab Sample ID: 180-137407-22

Date Collected: 04/27/22 09:30

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.12 mL	1.0 g	563866	05/05/22 09:37	MS	TAL SL
Dissolved	Analysis	9315		1			568629	06/06/22 21:59	CLP	TAL SL
Instrument ID: GFPCPURPLE										
Dissolved	Prep	PrecSep_0			750.12 mL	1.0 g	563868	05/05/22 10:02	MS	TAL SL
Dissolved	Analysis	9320		1			568747	06/06/22 12:54	JCB	TAL SL
Instrument ID: GFPCRED										
Dissolved	Analysis	Ra226_Ra228 (D)		1			568858	06/07/22 15:40	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-6

Lab Sample ID: 180-137407-23

Date Collected: 04/27/22 09:45

Matrix: Water

Date Received: 04/29/22 15:00

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			750.66 mL	1.0 g	563866	05/05/22 09:37	MS	TAL SL
Total/NA	Analysis	9315		1			568629	06/06/22 21:59	CLP	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			750.66 mL	1.0 g	563868	05/05/22 10:02	MS	TAL SL
Total/NA	Analysis	9320		1			568747	06/06/22 12:54	JCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			568859	06/07/22 15:41	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-6

Lab Sample ID: 180-137407-24

Date Collected: 04/27/22 09:52

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			744.19 mL	1.0 g	563866	05/05/22 09:37	MS	TAL SL
Dissolved	Analysis	9315		1			568629	06/06/22 21:59	CLP	TAL SL
Instrument ID: GFPCPURPLE										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-6

Lab Sample ID: 180-137407-24

Date Collected: 04/27/22 09:52

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep_0			744.19 mL	1.0 g	563868	05/05/22 10:02	MS	TAL SL
Dissolved	Analysis	9320		1			568747	06/06/22 12:54	JCB	TAL SL
Instrument ID: GFPCRED										
Dissolved	Analysis	Ra226_Ra228 (D)		1			568858	06/07/22 15:40	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-9

Lab Sample ID: 180-137407-25

Date Collected: 04/27/22 12:21

Matrix: Water

Date Received: 04/29/22 15:00

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			744.90 mL	1.0 g	563866	05/05/22 09:37	MS	TAL SL
Total/NA	Analysis	9315		1			568629	06/06/22 21:59	CLP	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			744.90 mL	1.0 g	563868	05/05/22 10:02	MS	TAL SL
Total/NA	Analysis	9320		1			568747	06/06/22 12:55	JCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			568859	06/07/22 15:41	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-9

Lab Sample ID: 180-137407-26

Date Collected: 04/27/22 12:29

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			753.79 mL	1.0 g	563866	05/05/22 09:37	MS	TAL SL
Dissolved	Analysis	9315		1			568823	06/07/22 08:30	FLC	TAL SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			753.79 mL	1.0 g	563868	05/05/22 10:02	MS	TAL SL
Dissolved	Analysis	9320		1			568747	06/06/22 12:55	JCB	TAL SL
Instrument ID: GFPCRED										
Dissolved	Analysis	Ra226_Ra228 (D)		1			568858	06/07/22 15:40	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-9

Lab Sample ID: 180-137407-27

Date Collected: 04/27/22 12:42

Matrix: Water

Date Received: 04/29/22 15:00

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			751.96 mL	1.0 g	563866	05/05/22 09:37	MS	TAL SL
Total/NA	Analysis	9315		1			568823	06/07/22 08:31	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			751.96 mL	1.0 g	563868	05/05/22 10:02	MS	TAL SL
Total/NA	Analysis	9320		1			568747	06/06/22 12:55	JCB	TAL SL
Instrument ID: GFPCRED										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-9

Lab Sample ID: 180-137407-27

Date Collected: 04/27/22 12:42

Matrix: Water

Date Received: 04/29/22 15:00

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			568859	06/07/22 15:41	SCB	TAL SL

Client Sample ID: SW-9

Lab Sample ID: 180-137407-28

Date Collected: 04/27/22 12:52

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			755.68 mL	1.0 g	563866	05/05/22 09:37	MS	TAL SL
Dissolved	Analysis	9315		1			568823	06/07/22 08:31	FLC	TAL SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			755.68 mL	1.0 g	563868	05/05/22 10:02	MS	TAL SL
Dissolved	Analysis	9320		1			568747	06/06/22 12:55	JCB	TAL SL
Instrument ID: GFPCRED										
Dissolved	Analysis	Ra226_Ra228 (D)		1			568858	06/07/22 15:40	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-10

Lab Sample ID: 180-137407-29

Date Collected: 04/27/22 11:31

Matrix: Water

Date Received: 04/29/22 15:00

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			754.40 mL	1.0 g	563866	05/05/22 09:37	MS	TAL SL
Total/NA	Analysis	9315		1			568823	06/07/22 08:31	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			754.40 mL	1.0 g	563868	05/05/22 10:02	MS	TAL SL
Total/NA	Analysis	9320		1			568747	06/06/22 12:56	JCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			568859	06/07/22 15:41	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-10

Lab Sample ID: 180-137407-30

Date Collected: 04/27/22 11:45

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			745.09 mL	1.0 g	563866	05/05/22 09:37	MS	TAL SL
Dissolved	Analysis	9315		1			568823	06/07/22 08:32	FLC	TAL SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			745.09 mL	1.0 g	563868	05/05/22 10:02	MS	TAL SL
Dissolved	Analysis	9320		1			568747	06/06/22 12:56	JCB	TAL SL
Instrument ID: GFPCRED										
Dissolved	Analysis	Ra226_Ra228 (D)		1			568858	06/07/22 15:40	SCB	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: DUP-02

Lab Sample ID: 180-137407-31

Date Collected: 04/27/22 10:31

Matrix: Water

Date Received: 04/29/22 15:00

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			747.53 mL	1.0 g	563866	05/05/22 09:37	MS	TAL SL
Total/NA	Analysis	9315		1			568823	06/07/22 08:32	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			747.53 mL	1.0 g	563868	05/05/22 10:02	MS	TAL SL
Total/NA	Analysis	9320		1			568747	06/06/22 12:56	JCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			568859	06/07/22 15:41	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-02

Lab Sample ID: 180-137407-32

Date Collected: 04/27/22 10:45

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			757.71 mL	1.0 g	563866	05/05/22 09:37	MS	TAL SL
Dissolved	Analysis	9315		1			568823	06/07/22 08:32	FLC	TAL SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			757.71 mL	1.0 g	563868	05/05/22 10:02	MS	TAL SL
Dissolved	Analysis	9320		1			568747	06/06/22 12:56	JCB	TAL SL
Instrument ID: GFPCRED										
Dissolved	Analysis	Ra226_Ra228 (D)		1			568858	06/07/22 15:40	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-11

Lab Sample ID: 180-137407-33

Date Collected: 04/27/22 10:58

Matrix: Water

Date Received: 04/29/22 15:00

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			744.03 mL	1.0 g	563866	05/05/22 09:37	MS	TAL SL
Total/NA	Analysis	9315		1			568823	06/07/22 08:32	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			744.03 mL	1.0 g	563868	05/05/22 10:02	MS	TAL SL
Total/NA	Analysis	9320		1			568747	06/06/22 12:56	JCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			568859	06/07/22 15:41	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-11

Lab Sample ID: 180-137407-34

Date Collected: 04/27/22 11:06

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			746.72 mL	1.0 g	563866	05/05/22 09:37	MS	TAL SL
Dissolved	Analysis	9315		1			568823	06/07/22 08:33	FLC	TAL SL
Instrument ID: GFPCRED										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-11

Lab Sample ID: 180-137407-34

Date Collected: 04/27/22 11:06

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep_0			746.72 mL	1.0 g	563868	05/05/22 10:02	MS	TAL SL
Dissolved	Analysis	9320		1			568747	06/06/22 12:56	JCB	TAL SL
Instrument ID: GFPCRED										
Dissolved	Analysis	Ra226_Ra228 (D)		1			568858	06/07/22 15:40	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-12

Lab Sample ID: 180-137407-35

Date Collected: 04/27/22 10:30

Matrix: Water

Date Received: 04/29/22 15:00

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			749.25 mL	1.0 g	563866	05/05/22 09:37	MS	TAL SL
Total/NA	Analysis	9315		1			568823	06/07/22 08:33	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			749.25 mL	1.0 g	563868	05/05/22 10:02	MS	TAL SL
Total/NA	Analysis	9320		1			568747	06/06/22 12:57	JCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			568859	06/07/22 15:41	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-12

Lab Sample ID: 180-137407-36

Date Collected: 04/27/22 10:39

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			744.91 mL	1.0 g	563866	05/05/22 09:37	MS	TAL SL
Dissolved	Analysis	9315		1			568823	06/07/22 08:33	FLC	TAL SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			744.91 mL	1.0 g	563868	05/05/22 10:02	MS	TAL SL
Dissolved	Analysis	9320		1			568747	06/06/22 12:57	JCB	TAL SL
Instrument ID: GFPCRED										
Dissolved	Analysis	Ra226_Ra228 (D)		1			568858	06/07/22 15:40	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-13

Lab Sample ID: 180-137407-37

Date Collected: 04/27/22 12:21

Matrix: Water

Date Received: 04/29/22 15:00

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			758.91 mL	1.0 g	563866	05/05/22 09:37	MS	TAL SL
Total/NA	Analysis	9315		1			568823	06/07/22 10:27	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			758.91 mL	1.0 g	563868	05/05/22 10:02	MS	TAL SL
Total/NA	Analysis	9320		1			568747	06/06/22 12:58	JCB	TAL SL
Instrument ID: GFPCRED										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-13
 Date Collected: 04/27/22 12:21
 Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-37
 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			568859	06/07/22 15:41	SCB	TAL SL

Client Sample ID: SW-13
 Date Collected: 04/27/22 12:33
 Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-38
 Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			751.29 mL	1.0 g	563866	05/05/22 09:37	MS	TAL SL
Dissolved	Analysis	9315		1			568823	06/07/22 10:27	FLC	TAL SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			751.29 mL	1.0 g	563868	05/05/22 10:02	MS	TAL SL
Dissolved	Analysis	9320		1			568747	06/06/22 12:58	JCB	TAL SL
Instrument ID: GFPCRED										
Dissolved	Analysis	Ra226_Ra228 (D)		1			568858	06/07/22 15:40	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-14
 Date Collected: 04/27/22 12:55
 Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-39
 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			743.92 mL	1.0 g	563866	05/05/22 09:37	MS	TAL SL
Total/NA	Analysis	9315		1			568823	06/07/22 10:27	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			743.92 mL	1.0 g	563868	05/05/22 10:02	MS	TAL SL
Total/NA	Analysis	9320		1			568747	06/06/22 12:58	JCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			568859	06/07/22 15:41	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-14
 Date Collected: 04/27/22 13:16
 Date Received: 04/29/22 15:00

Lab Sample ID: 180-137407-40
 Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			745.68 mL	1.0 g	563866	05/05/22 09:37	MS	TAL SL
Dissolved	Analysis	9315		1			568823	06/07/22 10:27	FLC	TAL SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			745.68 mL	1.0 g	563868	05/05/22 10:02	MS	TAL SL
Dissolved	Analysis	9320		1			568747	06/06/22 12:58	JCB	TAL SL
Instrument ID: GFPCRED										
Dissolved	Analysis	Ra226_Ra228 (D)		1			568858	06/07/22 15:40	SCB	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-15

Lab Sample ID: 180-137407-41

Date Collected: 04/27/22 13:43

Matrix: Water

Date Received: 04/29/22 15:00

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			750.24 mL	1.0 g	563891	05/05/22 11:53	MS	TAL SL
Total/NA	Analysis	9315		1			568250	06/03/22 17:09	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			750.24 mL	1.0 g	563895	05/05/22 12:31	MS	TAL SL
Total/NA	Analysis	9320		1			568250	06/03/22 11:51	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			568733	06/06/22 13:57	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-15

Lab Sample ID: 180-137407-42

Date Collected: 04/27/22 14:04

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			745.57 mL	1.0 g	563891	05/05/22 11:53	MS	TAL SL
Dissolved	Analysis	9315		1			568250	06/03/22 17:09	FLC	TAL SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			745.57 mL	1.0 g	563895	05/05/22 12:31	MS	TAL SL
Dissolved	Analysis	9320		1			568250	06/03/22 11:51	FLC	TAL SL
Instrument ID: GFPCRED										
Dissolved	Analysis	Ra226_Ra228 (D)		1			568732	06/06/22 13:56	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-03

Lab Sample ID: 180-137407-43

Date Collected: 04/27/22 12:43

Matrix: Water

Date Received: 04/29/22 15:00

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			753.17 mL	1.0 g	563891	05/05/22 11:53	MS	TAL SL
Total/NA	Analysis	9315		1			568250	06/03/22 17:10	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			753.17 mL	1.0 g	563895	05/05/22 12:31	MS	TAL SL
Total/NA	Analysis	9320		1			568250	06/03/22 11:51	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			568733	06/06/22 13:57	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-03

Lab Sample ID: 180-137407-44

Date Collected: 04/27/22 13:04

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			748.22 mL	1.0 g	563891	05/05/22 11:53	MS	TAL SL
Dissolved	Analysis	9315		1			568250	06/03/22 17:10	FLC	TAL SL
Instrument ID: GFPCRED										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: DUP-03

Lab Sample ID: 180-137407-44

Date Collected: 04/27/22 13:04

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep_0			748.22 mL	1.0 g	563895	05/05/22 12:31	MS	TAL SL
Dissolved	Analysis	9320		1			568250	06/03/22 11:52	FLC	TAL SL
Instrument ID: GFPCRED										
Dissolved	Analysis	Ra226_Ra228 (D)		1			568732	06/06/22 13:56	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-16

Lab Sample ID: 180-137407-45

Date Collected: 04/27/22 18:49

Matrix: Water

Date Received: 04/29/22 15:00

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			756.59 mL	1.0 g	563891	05/05/22 11:53	MS	TAL SL
Total/NA	Analysis	9315		1			568250	06/03/22 17:10	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			756.59 mL	1.0 g	563895	05/05/22 12:31	MS	TAL SL
Total/NA	Analysis	9320		1			568250	06/03/22 11:52	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			568733	06/06/22 13:57	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-16

Lab Sample ID: 180-137407-46

Date Collected: 04/27/22 19:02

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			754.35 mL	1.0 g	563891	05/05/22 11:53	MS	TAL SL
Dissolved	Analysis	9315		1			568250	06/03/22 17:10	FLC	TAL SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			754.35 mL	1.0 g	563895	05/05/22 12:31	MS	TAL SL
Dissolved	Analysis	9320		1			568250	06/03/22 11:53	FLC	TAL SL
Instrument ID: GFPCRED										
Dissolved	Analysis	Ra226_Ra228 (D)		1			568732	06/06/22 13:56	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-17

Lab Sample ID: 180-137407-47

Date Collected: 04/27/22 10:06

Matrix: Water

Date Received: 04/29/22 15:00

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			752.48 mL	1.0 g	563891	05/05/22 11:53	MS	TAL SL
Total/NA	Analysis	9315		1			568250	06/03/22 17:11	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			752.48 mL	1.0 g	563895	05/05/22 12:31	MS	TAL SL
Total/NA	Analysis	9320		1			568250	06/03/22 11:53	FLC	TAL SL
Instrument ID: GFPCRED										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-17

Lab Sample ID: 180-137407-47

Date Collected: 04/27/22 10:06

Matrix: Water

Date Received: 04/29/22 15:00

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			568733	06/06/22 13:57	SCB	TAL SL

Client Sample ID: SW-17

Lab Sample ID: 180-137407-48

Date Collected: 04/27/22 10:23

Matrix: Water

Date Received: 04/29/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			745.01 mL	1.0 g	563891	05/05/22 11:53	MS	TAL SL
Dissolved	Analysis	9315		1			568250	06/03/22 17:11	FLC	TAL SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			745.01 mL	1.0 g	563895	05/05/22 12:31	MS	TAL SL
Dissolved	Analysis	9320		1			568277	06/03/22 11:44	JCB	TAL SL
Instrument ID: GFPCORANGE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			568732	06/06/22 13:56	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-01

Lab Sample ID: 180-137407-49

Date Collected: 04/27/22 07:58

Matrix: Water

Date Received: 04/29/22 15:00

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			992.68 mL	1.0 g	563891	05/05/22 11:53	MS	TAL SL
Total/NA	Analysis	9315		1			568250	06/03/22 17:11	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			992.68 mL	1.0 g	563895	05/05/22 12:31	MS	TAL SL
Total/NA	Analysis	9320		1			568277	06/03/22 11:45	JCB	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			568733	06/06/22 13:57	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-02

Lab Sample ID: 180-137407-50

Date Collected: 04/27/22 16:17

Matrix: Water

Date Received: 04/29/22 15:00

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			992.49 mL	1.0 g	563891	05/05/22 11:53	MS	TAL SL
Total/NA	Analysis	9315		1			568250	06/03/22 17:11	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			992.49 mL	1.0 g	563895	05/05/22 12:31	MS	TAL SL
Total/NA	Analysis	9320		1			568277	06/03/22 11:45	JCB	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			568733	06/06/22 13:57	SCB	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: FB-01

Lab Sample ID: 180-137407-51

Date Collected: 04/27/22 08:06

Matrix: Water

Date Received: 04/29/22 15:00

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			994.64 mL	1.0 g	563891	05/05/22 11:53	MS	TAL SL
Total/NA	Analysis	9315		1			568250	06/03/22 17:32	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			994.64 mL	1.0 g	563895	05/05/22 12:31	MS	TAL SL
Total/NA	Analysis	9320		1			568277	06/03/22 11:45	JCB	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			568733	06/06/22 13:57	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-02

Lab Sample ID: 180-137407-52

Date Collected: 04/27/22 16:11

Matrix: Water

Date Received: 04/29/22 15:00

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	563891	05/05/22 11:53	MS	TAL SL
Total/NA	Analysis	9315		1			568250	06/03/22 17:32	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			996.69 mL	1.0 g	563895	05/05/22 12:31	MS	TAL SL
Total/NA	Analysis	9320		1			568277	06/03/22 11:45	JCB	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			568733	06/06/22 13:57	SCB	TAL SL
Instrument ID: NOEQUIP										

Laboratory References:

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

Analyst References:

Lab: TAL SL

Batch Type: Prep

MS = Matthew Swaringam

Batch Type: Analysis

CLP = Cassandra Park

FLC = Fernando Cruz

JCB = Jacob Boyd

SCB = Sarah Bensen

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-1

Lab Sample ID: 180-137407-1

Date Collected: 04/27/22 17:36

Matrix: Water

Date Received: 04/29/22 15:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0627	U	0.210	0.210	1.00	0.469	pCi/L	05/05/22 08:56	06/06/22 19:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.5		40 - 110					05/05/22 08:56	06/06/22 19:54	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.206	U	0.417	0.418	1.00	0.726	pCi/L	05/05/22 09:33	06/06/22 12:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.5		40 - 110					05/05/22 09:33	06/06/22 12:26	1
Y Carrier	84.5		40 - 110					05/05/22 09:33	06/06/22 12:26	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.143	U	0.467	0.468	5.00	0.726	pCi/L		06/07/22 15:43	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-1

Lab Sample ID: 180-137407-2

Date Collected: 04/27/22 17:43

Matrix: Water

Date Received: 04/29/22 15:00

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0584	U	0.256	0.256	1.00	0.490	pCi/L	05/05/22 08:56	06/06/22 19:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.0		40 - 110					05/05/22 08:56	06/06/22 19:55	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.297	U	0.423	0.424	1.00	0.713	pCi/L	05/05/22 09:33	06/06/22 12:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.0		40 - 110					05/05/22 09:33	06/06/22 12:26	1
Y Carrier	84.5		40 - 110					05/05/22 09:33	06/06/22 12:26	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.356	U	0.494	0.495	5.00	0.713	pCi/L		06/07/22 15:42	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-1

Lab Sample ID: 180-137407-3

Date Collected: 04/27/22 17:51

Matrix: Water

Date Received: 04/29/22 15:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.117	U	0.278	0.279	1.00	0.519	pCi/L	05/05/22 08:56	06/06/22 19:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	62.6		40 - 110					05/05/22 08:56	06/06/22 19:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.348	U G	0.609	0.609	1.00	1.04	pCi/L	05/05/22 09:33	06/06/22 12:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	62.6		40 - 110					05/05/22 09:33	06/06/22 12:26	1
Y Carrier	84.5		40 - 110					05/05/22 09:33	06/06/22 12:26	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.465	U	0.669	0.670	5.00	1.04	pCi/L		06/07/22 15:43	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-1

Lab Sample ID: 180-137407-4

Date Collected: 04/27/22 17:57

Matrix: Water

Date Received: 04/29/22 15:00

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.436		0.301	0.304	1.00	0.402	pCi/L	05/05/22 08:56	06/06/22 19:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.8		40 - 110					05/05/22 08:56	06/06/22 19:56	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.348	U	0.458	0.459	1.00	0.764	pCi/L	05/05/22 09:33	06/06/22 12:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.8		40 - 110					05/05/22 09:33	06/06/22 12:26	1
Y Carrier	87.5		40 - 110					05/05/22 09:33	06/06/22 12:26	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.784		0.548	0.551	5.00	0.764	pCi/L		06/07/22 15:42	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-2

Lab Sample ID: 180-137407-5

Date Collected: 04/27/22 16:49

Matrix: Water

Date Received: 04/29/22 15:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.136	U	0.302	0.302	1.00	0.558	pCi/L	05/05/22 08:56	06/06/22 19:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	56.9		40 - 110					05/05/22 08:56	06/06/22 19:56	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.128	U G	0.524	0.524	1.00	1.03	pCi/L	05/05/22 09:33	06/06/22 12:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	56.9		40 - 110					05/05/22 09:33	06/06/22 12:26	1
Y Carrier	82.6		40 - 110					05/05/22 09:33	06/06/22 12:26	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.00851	U	0.605	0.605	5.00	1.03	pCi/L		06/07/22 15:43	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-2

Lab Sample ID: 180-137407-6

Date Collected: 04/27/22 17:03

Matrix: Water

Date Received: 04/29/22 15:00

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

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	0.164	U	0.279	0.279	1.00	0.485	pCi/L	05/05/22 08:56	06/06/22 19:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		40 - 110					05/05/22 08:56	06/06/22 19:56	1

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

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	0.233	U	0.312	0.312	1.00	0.522	pCi/L	05/05/22 09:33	06/06/22 12:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		40 - 110					05/05/22 09:33	06/06/22 12:27	1
Y Carrier	87.1		40 - 110					05/05/22 09:33	06/06/22 12:27	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium 226 and 228	0.397	U	0.419	0.419	5.00	0.522	pCi/L		06/07/22 15:42	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-2

Lab Sample ID: 180-137407-7

Date Collected: 04/27/22 17:13

Matrix: Water

Date Received: 04/29/22 15:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.513	U	0.442	0.444	1.00	0.658	pCi/L	05/05/22 08:56	06/06/22 19:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	51.6		40 - 110					05/05/22 08:56	06/06/22 19:56	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.668	U G	0.691	0.694	1.00	1.12	pCi/L	05/05/22 09:33	06/06/22 12:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	51.6		40 - 110					05/05/22 09:33	06/06/22 12:28	1
Y Carrier	84.9		40 - 110					05/05/22 09:33	06/06/22 12:28	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.18		0.820	0.824	5.00	1.12	pCi/L		06/07/22 15:43	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-2

Lab Sample ID: 180-137407-8

Date Collected: 04/27/22 17:21

Matrix: Water

Date Received: 04/29/22 15:00

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.380		0.267	0.270	1.00	0.354	pCi/L	05/05/22 08:56	06/06/22 19:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		40 - 110					05/05/22 08:56	06/06/22 19:56	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.465	U	0.399	0.402	1.00	0.624	pCi/L	05/05/22 09:33	06/06/22 12:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		40 - 110					05/05/22 09:33	06/06/22 12:28	1
Y Carrier	86.0		40 - 110					05/05/22 09:33	06/06/22 12:28	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.845		0.480	0.484	5.00	0.624	pCi/L		06/07/22 15:42	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-3

Lab Sample ID: 180-137407-9

Date Collected: 04/27/22 08:42

Matrix: Water

Date Received: 04/29/22 15:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0782	U	0.263	0.263	1.00	0.490	pCi/L	05/05/22 08:56	06/06/22 21:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					05/05/22 08:56	06/06/22 21:40	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0110	U	0.363	0.363	1.00	0.677	pCi/L	05/05/22 09:33	06/06/22 12:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					05/05/22 09:33	06/06/22 12:29	1
Y Carrier	87.5		40 - 110					05/05/22 09:33	06/06/22 12:29	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0892	U	0.448	0.448	5.00	0.677	pCi/L		06/07/22 15:43	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-3

Lab Sample ID: 180-137407-10

Date Collected: 04/27/22 09:02

Matrix: Water

Date Received: 04/29/22 15:00

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.216	U	0.296	0.296	1.00	0.498	pCi/L	05/05/22 08:56	06/06/22 21:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.3		40 - 110					05/05/22 08:56	06/06/22 21:40	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.395	U	0.492	0.494	1.00	0.817	pCi/L	05/05/22 09:33	06/06/22 12:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.3		40 - 110					05/05/22 09:33	06/06/22 12:41	1
Y Carrier	89.3		40 - 110					05/05/22 09:33	06/06/22 12:41	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.611	U	0.574	0.576	5.00	0.817	pCi/L		06/07/22 15:42	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-3

Lab Sample ID: 180-137407-11

Date Collected: 04/27/22 09:20

Matrix: Water

Date Received: 04/29/22 15:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.409	U	0.366	0.367	1.00	0.556	pCi/L	05/05/22 08:56	06/06/22 21:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	63.8		40 - 110					05/05/22 08:56	06/06/22 21:40	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.348	U	0.551	0.552	1.00	0.937	pCi/L	05/05/22 09:33	06/06/22 12:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	63.8		40 - 110					05/05/22 09:33	06/06/22 12:41	1
Y Carrier	88.2		40 - 110					05/05/22 09:33	06/06/22 12:41	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.757	U	0.661	0.663	5.00	0.937	pCi/L		06/07/22 15:43	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-3

Lab Sample ID: 180-137407-12

Date Collected: 04/27/22 09:33

Matrix: Water

Date Received: 04/29/22 15:00

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

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	0.0534	U	0.235	0.235	1.00	0.448	pCi/L	05/05/22 08:56	06/06/22 21:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		40 - 110					05/05/22 08:56	06/06/22 21:41	1

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

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	0.255	U	0.362	0.363	1.00	0.611	pCi/L	05/05/22 09:33	06/06/22 12:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		40 - 110					05/05/22 09:33	06/06/22 12:41	1
Y Carrier	83.7		40 - 110					05/05/22 09:33	06/06/22 12:41	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium 226 and 228	0.308	U	0.432	0.432	5.00	0.611	pCi/L		06/07/22 15:42	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-4

Lab Sample ID: 180-137407-13

Date Collected: 04/27/22 10:50

Matrix: Water

Date Received: 04/29/22 15:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.533		0.386	0.389	1.00	0.530	pCi/L	05/05/22 08:56	06/06/22 21:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	58.1		40 - 110					05/05/22 08:56	06/06/22 21:41	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.584	U	0.550	0.553	1.00	0.871	pCi/L	05/05/22 09:33	06/06/22 12:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	58.1		40 - 110					05/05/22 09:33	06/06/22 12:41	1
Y Carrier	88.6		40 - 110					05/05/22 09:33	06/06/22 12:41	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.12		0.672	0.676	5.00	0.871	pCi/L		06/07/22 15:43	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-4

Lab Sample ID: 180-137407-14

Date Collected: 04/27/22 11:18

Matrix: Water

Date Received: 04/29/22 15:00

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

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	0.0722	U	0.189	0.190	1.00	0.360	pCi/L	05/05/22 08:56	06/06/22 21:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.5		40 - 110					05/05/22 08:56	06/06/22 21:41	1

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

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	0.367	U	0.396	0.398	1.00	0.645	pCi/L	05/05/22 09:33	06/06/22 12:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.5		40 - 110					05/05/22 09:33	06/06/22 12:42	1
Y Carrier	92.0		40 - 110					05/05/22 09:33	06/06/22 12:42	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium 226 and 228	0.439	U	0.439	0.441	5.00	0.645	pCi/L		06/07/22 15:42	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: DUP-01

Lab Sample ID: 180-137407-15

Date Collected: 04/27/22 09:50

Matrix: Water

Date Received: 04/29/22 15:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.306	U	0.342	0.343	1.00	0.547	pCi/L	05/05/22 08:56	06/06/22 21:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	56.1		40 - 110					05/05/22 08:56	06/06/22 21:41	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.198	U G	0.603	0.604	1.00	1.07	pCi/L	05/05/22 09:33	06/06/22 12:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	56.1		40 - 110					05/05/22 09:33	06/06/22 12:42	1
Y Carrier	88.6		40 - 110					05/05/22 09:33	06/06/22 12:42	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.504	U	0.693	0.695	5.00	1.07	pCi/L		06/07/22 15:43	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: DUP-01

Lab Sample ID: 180-137407-16

Date Collected: 04/27/22 10:18

Matrix: Water

Date Received: 04/29/22 15:00

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0747	U	0.254	0.254	1.00	0.475	pCi/L	05/05/22 08:56	06/06/22 21:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					05/05/22 08:56	06/06/22 21:41	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.320	U	0.378	0.379	1.00	0.621	pCi/L	05/05/22 09:33	06/06/22 12:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					05/05/22 09:33	06/06/22 12:42	1
Y Carrier	88.6		40 - 110					05/05/22 09:33	06/06/22 12:42	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.395	U	0.455	0.456	5.00	0.621	pCi/L		06/07/22 15:42	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-5

Lab Sample ID: 180-137407-17

Date Collected: 04/27/22 08:07

Matrix: Water

Date Received: 04/29/22 15:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0805	U	0.208	0.208	1.00	0.388	pCi/L	05/05/22 08:56	06/06/22 21:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		40 - 110					05/05/22 08:56	06/06/22 21:41	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.281	U	0.365	0.366	1.00	0.608	pCi/L	05/05/22 09:33	06/06/22 12:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		40 - 110					05/05/22 09:33	06/06/22 12:42	1
Y Carrier	88.2		40 - 110					05/05/22 09:33	06/06/22 12:42	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.361	U	0.420	0.421	5.00	0.608	pCi/L		06/07/22 15:43	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-5

Lab Sample ID: 180-137407-18

Date Collected: 04/27/22 07:07

Matrix: Water

Date Received: 04/29/22 15:00

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.161	U	0.204	0.205	1.00	0.337	pCi/L	05/05/22 08:56	06/06/22 21:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					05/05/22 08:56	06/06/22 21:42	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.20		0.482	0.495	1.00	0.618	pCi/L	05/05/22 09:33	06/06/22 12:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					05/05/22 09:33	06/06/22 12:42	1
Y Carrier	91.2		40 - 110					05/05/22 09:33	06/06/22 12:42	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.37		0.523	0.536	5.00	0.618	pCi/L		06/07/22 15:42	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-5

Lab Sample ID: 180-137407-19

Date Collected: 04/27/22 08:35

Matrix: Water

Date Received: 04/29/22 15:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.288	U	0.321	0.322	1.00	0.514	pCi/L	05/05/22 08:56	06/06/22 22:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	62.6		40 - 110					05/05/22 08:56	06/06/22 22:00	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.236	U	0.507	0.507	1.00	0.888	pCi/L	05/05/22 09:33	06/06/22 12:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	62.6		40 - 110					05/05/22 09:33	06/06/22 12:43	1
Y Carrier	90.8		40 - 110					05/05/22 09:33	06/06/22 12:43	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.523	U	0.600	0.601	5.00	0.888	pCi/L		06/07/22 15:43	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-5

Lab Sample ID: 180-137407-20

Date Collected: 04/27/22 07:35

Matrix: Water

Date Received: 04/29/22 15:00

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.138	U	0.198	0.198	1.00	0.336	pCi/L	05/05/22 08:56	06/06/22 22:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					05/05/22 08:56	06/06/22 22:00	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.158	U	0.340	0.340	1.00	0.594	pCi/L	05/05/22 09:33	06/06/22 12:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					05/05/22 09:33	06/06/22 12:43	1
Y Carrier	89.3		40 - 110					05/05/22 09:33	06/06/22 12:43	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.297	U	0.393	0.393	5.00	0.594	pCi/L		06/07/22 15:42	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-6

Lab Sample ID: 180-137407-21

Date Collected: 04/27/22 09:19

Matrix: Water

Date Received: 04/29/22 15:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0258	U	0.162	0.162	1.00	0.330	pCi/L	05/05/22 09:37	06/06/22 22:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		40 - 110					05/05/22 09:37	06/06/22 22:01	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.433	U	0.380	0.382	1.00	0.595	pCi/L	05/05/22 10:02	06/06/22 12:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		40 - 110					05/05/22 10:02	06/06/22 12:46	1
Y Carrier	84.5		40 - 110					05/05/22 10:02	06/06/22 12:46	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.458	U	0.413	0.415	5.00	0.595	pCi/L		06/07/22 15:41	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-6

Lab Sample ID: 180-137407-22

Date Collected: 04/27/22 09:30

Matrix: Water

Date Received: 04/29/22 15:00

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.636		0.336	0.341	1.00	0.434	pCi/L	05/05/22 09:37	06/06/22 21:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.0		40 - 110					05/05/22 09:37	06/06/22 21:59	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.755		0.428	0.434	1.00	0.611	pCi/L	05/05/22 10:02	06/06/22 12:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.0		40 - 110					05/05/22 10:02	06/06/22 12:54	1
Y Carrier	86.4		40 - 110					05/05/22 10:02	06/06/22 12:54	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.39		0.544	0.552	5.00	0.611	pCi/L		06/07/22 15:40	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-6

Lab Sample ID: 180-137407-23

Date Collected: 04/27/22 09:45

Matrix: Water

Date Received: 04/29/22 15:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.405	U	0.310	0.312	1.00	0.445	pCi/L	05/05/22 09:37	06/06/22 21:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.5		40 - 110					05/05/22 09:37	06/06/22 21:59	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.805		0.472	0.478	1.00	0.666	pCi/L	05/05/22 10:02	06/06/22 12:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.5		40 - 110					05/05/22 10:02	06/06/22 12:54	1
Y Carrier	85.2		40 - 110					05/05/22 10:02	06/06/22 12:54	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.21		0.565	0.571	5.00	0.666	pCi/L		06/07/22 15:41	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-6

Lab Sample ID: 180-137407-24

Date Collected: 04/27/22 09:52

Matrix: Water

Date Received: 04/29/22 15:00

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.259	U	0.294	0.295	1.00	0.479	pCi/L	05/05/22 09:37	06/06/22 21:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					05/05/22 09:37	06/06/22 21:59	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.117	U	0.324	0.324	1.00	0.580	pCi/L	05/05/22 10:02	06/06/22 12:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					05/05/22 10:02	06/06/22 12:54	1
Y Carrier	85.2		40 - 110					05/05/22 10:02	06/06/22 12:54	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.376	U	0.438	0.438	5.00	0.580	pCi/L		06/07/22 15:40	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-9

Lab Sample ID: 180-137407-25

Date Collected: 04/27/22 12:21

Matrix: Water

Date Received: 04/29/22 15:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.233	U	0.339	0.340	1.00	0.577	pCi/L	05/05/22 09:37	06/06/22 21:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	67.3		40 - 110					05/05/22 09:37	06/06/22 21:59	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.830	U G	0.653	0.658	1.00	1.01	pCi/L	05/05/22 10:02	06/06/22 12:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	67.3		40 - 110					05/05/22 10:02	06/06/22 12:55	1
Y Carrier	86.0		40 - 110					05/05/22 10:02	06/06/22 12:55	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.06		0.736	0.741	5.00	1.01	pCi/L		06/07/22 15:41	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-9

Lab Sample ID: 180-137407-26

Date Collected: 04/27/22 12:29

Matrix: Water

Date Received: 04/29/22 15:00

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0307	U	0.132	0.132	1.00	0.305	pCi/L	05/05/22 09:37	06/07/22 08:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.3		40 - 110					05/05/22 09:37	06/07/22 08:30	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.708	U	0.496	0.500	1.00	0.752	pCi/L	05/05/22 10:02	06/06/22 12:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.3		40 - 110					05/05/22 10:02	06/06/22 12:55	1
Y Carrier	83.4		40 - 110					05/05/22 10:02	06/06/22 12:55	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.677	U	0.513	0.517	5.00	0.752	pCi/L		06/07/22 15:40	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-9

Lab Sample ID: 180-137407-27

Date Collected: 04/27/22 12:42

Matrix: Water

Date Received: 04/29/22 15:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0395	U	0.212	0.212	1.00	0.416	pCi/L	05/05/22 09:37	06/07/22 08:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.8		40 - 110					05/05/22 09:37	06/07/22 08:31	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.330	U	0.451	0.452	1.00	0.758	pCi/L	05/05/22 10:02	06/06/22 12:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.8		40 - 110					05/05/22 10:02	06/06/22 12:55	1
Y Carrier	85.2		40 - 110					05/05/22 10:02	06/06/22 12:55	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.370	U	0.498	0.499	5.00	0.758	pCi/L		06/07/22 15:41	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-9

Lab Sample ID: 180-137407-28

Date Collected: 04/27/22 12:52

Matrix: Water

Date Received: 04/29/22 15:00

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

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	0.0231	U	0.174	0.174	1.00	0.345	pCi/L	05/05/22 09:37	06/07/22 08:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		40 - 110					05/05/22 09:37	06/07/22 08:31	1

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

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	0.205	U	0.375	0.375	1.00	0.648	pCi/L	05/05/22 10:02	06/06/22 12:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		40 - 110					05/05/22 10:02	06/06/22 12:55	1
Y Carrier	83.4		40 - 110					05/05/22 10:02	06/06/22 12:55	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium 226 and 228	0.228	U	0.413	0.413	5.00	0.648	pCi/L		06/07/22 15:40	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-10

Lab Sample ID: 180-137407-29

Date Collected: 04/27/22 11:31

Matrix: Water

Date Received: 04/29/22 15:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0145	U	0.211	0.211	1.00	0.441	pCi/L	05/05/22 09:37	06/07/22 08:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.8		40 - 110					05/05/22 09:37	06/07/22 08:31	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.832	U	0.585	0.590	1.00	0.881	pCi/L	05/05/22 10:02	06/06/22 12:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.8		40 - 110					05/05/22 10:02	06/06/22 12:56	1
Y Carrier	84.1		40 - 110					05/05/22 10:02	06/06/22 12:56	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.817	U	0.622	0.627	5.00	0.881	pCi/L		06/07/22 15:41	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-10

Lab Sample ID: 180-137407-30

Date Collected: 04/27/22 11:45

Matrix: Water

Date Received: 04/29/22 15:00

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.246	U	0.218	0.219	1.00	0.320	pCi/L	05/05/22 09:37	06/07/22 08:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.8		40 - 110					05/05/22 09:37	06/07/22 08:32	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.29		0.597	0.609	1.00	0.814	pCi/L	05/05/22 10:02	06/06/22 12:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.8		40 - 110					05/05/22 10:02	06/06/22 12:56	1
Y Carrier	87.1		40 - 110					05/05/22 10:02	06/06/22 12:56	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.53		0.636	0.647	5.00	0.814	pCi/L		06/07/22 15:40	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: DUP-02

Lab Sample ID: 180-137407-31

Date Collected: 04/27/22 10:31

Matrix: Water

Date Received: 04/29/22 15:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0496	U	0.173	0.173	1.00	0.377	pCi/L	05/05/22 09:37	06/07/22 08:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		40 - 110					05/05/22 09:37	06/07/22 08:32	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.954		0.537	0.544	1.00	0.782	pCi/L	05/05/22 10:02	06/06/22 12:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		40 - 110					05/05/22 10:02	06/06/22 12:56	1
Y Carrier	85.6		40 - 110					05/05/22 10:02	06/06/22 12:56	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.904		0.564	0.571	5.00	0.782	pCi/L		06/07/22 15:41	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: DUP-02

Lab Sample ID: 180-137407-32

Date Collected: 04/27/22 10:45

Matrix: Water

Date Received: 04/29/22 15:00

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0228	U	0.158	0.158	1.00	0.324	pCi/L	05/05/22 09:37	06/07/22 08:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		40 - 110					05/05/22 09:37	06/07/22 08:32	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.523	U	0.470	0.472	1.00	0.744	pCi/L	05/05/22 10:02	06/06/22 12:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		40 - 110					05/05/22 10:02	06/06/22 12:56	1
Y Carrier	87.5		40 - 110					05/05/22 10:02	06/06/22 12:56	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.546	U	0.496	0.498	5.00	0.744	pCi/L		06/07/22 15:40	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-11

Lab Sample ID: 180-137407-33

Date Collected: 04/27/22 10:58

Matrix: Water

Date Received: 04/29/22 15:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.191	U	0.225	0.226	1.00	0.365	pCi/L	05/05/22 09:37	06/07/22 08:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.3		40 - 110					05/05/22 09:37	06/07/22 08:32	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.893	U	0.604	0.609	1.00	0.901	pCi/L	05/05/22 10:02	06/06/22 12:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.3		40 - 110					05/05/22 10:02	06/06/22 12:56	1
Y Carrier	84.5		40 - 110					05/05/22 10:02	06/06/22 12:56	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.08		0.645	0.650	5.00	0.901	pCi/L		06/07/22 15:41	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-11

Lab Sample ID: 180-137407-34

Date Collected: 04/27/22 11:06

Matrix: Water

Date Received: 04/29/22 15:00

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

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	0.0872	U	0.220	0.220	1.00	0.401	pCi/L	05/05/22 09:37	06/07/22 08:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		40 - 110					05/05/22 09:37	06/07/22 08:33	1

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

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	0.273	U	0.435	0.436	1.00	0.740	pCi/L	05/05/22 10:02	06/06/22 12:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		40 - 110					05/05/22 10:02	06/06/22 12:56	1
Y Carrier	86.0		40 - 110					05/05/22 10:02	06/06/22 12:56	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium 226 and 228	0.360	U	0.487	0.488	5.00	0.740	pCi/L		06/07/22 15:40	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-12

Lab Sample ID: 180-137407-35

Date Collected: 04/27/22 10:30

Matrix: Water

Date Received: 04/29/22 15:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0519	U	0.197	0.197	1.00	0.381	pCi/L	05/05/22 09:37	06/07/22 08:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.3		40 - 110					05/05/22 09:37	06/07/22 08:33	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.695	U	0.563	0.567	1.00	0.877	pCi/L	05/05/22 10:02	06/06/22 12:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.3		40 - 110					05/05/22 10:02	06/06/22 12:57	1
Y Carrier	82.6		40 - 110					05/05/22 10:02	06/06/22 12:57	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.746	U	0.596	0.600	5.00	0.877	pCi/L		06/07/22 15:41	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-12

Lab Sample ID: 180-137407-36

Date Collected: 04/27/22 10:39

Matrix: Water

Date Received: 04/29/22 15:00

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.195	U	0.179	0.180	1.00	0.266	pCi/L	05/05/22 09:37	06/07/22 08:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.5		40 - 110					05/05/22 09:37	06/07/22 08:33	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.854		0.447	0.454	1.00	0.624	pCi/L	05/05/22 10:02	06/06/22 12:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.5		40 - 110					05/05/22 10:02	06/06/22 12:57	1
Y Carrier	86.0		40 - 110					05/05/22 10:02	06/06/22 12:57	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.05		0.482	0.488	5.00	0.624	pCi/L		06/07/22 15:40	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-13

Lab Sample ID: 180-137407-37

Date Collected: 04/27/22 12:21

Matrix: Water

Date Received: 04/29/22 15:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.122	U	0.174	0.174	1.00	0.296	pCi/L	05/05/22 09:37	06/07/22 10:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.8		40 - 110					05/05/22 09:37	06/07/22 10:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.03		0.457	0.467	1.00	0.596	pCi/L	05/05/22 10:02	06/06/22 12:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.8		40 - 110					05/05/22 10:02	06/06/22 12:58	1
Y Carrier	85.2		40 - 110					05/05/22 10:02	06/06/22 12:58	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.15		0.489	0.498	5.00	0.596	pCi/L		06/07/22 15:41	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-13

Lab Sample ID: 180-137407-38

Date Collected: 04/27/22 12:33

Matrix: Water

Date Received: 04/29/22 15:00

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.219	U	0.186	0.187	1.00	0.272	pCi/L	05/05/22 09:37	06/07/22 10:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.8		40 - 110					05/05/22 09:37	06/07/22 10:27	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.00		0.461	0.470	1.00	0.617	pCi/L	05/05/22 10:02	06/06/22 12:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.8		40 - 110					05/05/22 10:02	06/06/22 12:58	1
Y Carrier	84.1		40 - 110					05/05/22 10:02	06/06/22 12:58	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.22		0.497	0.506	5.00	0.617	pCi/L		06/07/22 15:40	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-14

Lab Sample ID: 180-137407-39

Date Collected: 04/27/22 12:55

Matrix: Water

Date Received: 04/29/22 15:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	0.218	U	0.316	0.316	1.00	0.535	pCi/L	05/05/22 09:37	06/07/22 10:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.3		40 - 110					05/05/22 09:37	06/07/22 10:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	0.443	U	0.506	0.508	1.00	0.830	pCi/L	05/05/22 10:02	06/06/22 12:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.3		40 - 110					05/05/22 10:02	06/06/22 12:58	1
Y Carrier	87.9		40 - 110					05/05/22 10:02	06/06/22 12:58	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Combined Radium 226 + 228	0.661	U	0.597	0.598	5.00	0.830	pCi/L		06/07/22 15:41	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-14

Lab Sample ID: 180-137407-40

Date Collected: 04/27/22 13:16

Matrix: Water

Date Received: 04/29/22 15:00

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0803	U	0.202	0.202	1.00	0.367	pCi/L	05/05/22 09:37	06/07/22 10:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		40 - 110					05/05/22 09:37	06/07/22 10:27	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0882	U	0.304	0.305	1.00	0.603	pCi/L	05/05/22 10:02	06/06/22 12:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		40 - 110					05/05/22 10:02	06/06/22 12:58	1
Y Carrier	89.0		40 - 110					05/05/22 10:02	06/06/22 12:58	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	-0.00793	U	0.365	0.366	5.00	0.603	pCi/L		06/07/22 15:40	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-15

Lab Sample ID: 180-137407-41

Date Collected: 04/27/22 13:43

Matrix: Water

Date Received: 04/29/22 15:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0282	U	0.316	0.316	1.00	0.623	pCi/L	05/05/22 11:53	06/03/22 17:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		40 - 110					05/05/22 11:53	06/03/22 17:09	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.105	U	0.369	0.369	1.00	0.670	pCi/L	05/05/22 12:31	06/03/22 11:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		40 - 110					05/05/22 12:31	06/03/22 11:51	1
Y Carrier	83.0		40 - 110					05/05/22 12:31	06/03/22 11:51	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0764	U	0.486	0.486	5.00	0.670	pCi/L		06/06/22 13:57	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-15

Lab Sample ID: 180-137407-42

Date Collected: 04/27/22 14:04

Matrix: Water

Date Received: 04/29/22 15:00

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.184	U	0.314	0.315	1.00	0.547	pCi/L	05/05/22 11:53	06/03/22 17:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.5		40 - 110					05/05/22 11:53	06/03/22 17:09	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0765	U	0.422	0.422	1.00	0.804	pCi/L	05/05/22 12:31	06/03/22 11:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.5		40 - 110					05/05/22 12:31	06/03/22 11:51	1
Y Carrier	88.2		40 - 110					05/05/22 12:31	06/03/22 11:51	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.108	U	0.526	0.527	5.00	0.804	pCi/L		06/06/22 13:56	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: DUP-03

Lab Sample ID: 180-137407-43

Date Collected: 04/27/22 12:43

Matrix: Water

Date Received: 04/29/22 15:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0396	U	0.190	0.190	1.00	0.383	pCi/L	05/05/22 11:53	06/03/22 17:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.5		40 - 110					05/05/22 11:53	06/03/22 17:10	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.02		0.539	0.547	1.00	0.765	pCi/L	05/05/22 12:31	06/03/22 11:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.5		40 - 110					05/05/22 12:31	06/03/22 11:51	1
Y Carrier	85.2		40 - 110					05/05/22 12:31	06/03/22 11:51	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.06		0.572	0.579	5.00	0.765	pCi/L		06/06/22 13:57	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: DUP-03

Lab Sample ID: 180-137407-44

Date Collected: 04/27/22 13:04

Matrix: Water

Date Received: 04/29/22 15:00

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0708	U	0.161	0.161	1.00	0.398	pCi/L	05/05/22 11:53	06/03/22 17:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		40 - 110					05/05/22 11:53	06/03/22 17:10	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.470	U	0.395	0.397	1.00	0.610	pCi/L	05/05/22 12:31	06/03/22 11:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		40 - 110					05/05/22 12:31	06/03/22 11:52	1
Y Carrier	86.7		40 - 110					05/05/22 12:31	06/03/22 11:52	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.399	U	0.427	0.428	5.00	0.610	pCi/L		06/06/22 13:56	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-16

Lab Sample ID: 180-137407-45

Date Collected: 04/27/22 18:49

Matrix: Water

Date Received: 04/29/22 15:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0992	U	0.203	0.203	1.00	0.372	pCi/L	05/05/22 11:53	06/03/22 17:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		40 - 110					05/05/22 11:53	06/03/22 17:10	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.283	U	0.424	0.424	1.00	0.718	pCi/L	05/05/22 12:31	06/03/22 11:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		40 - 110					05/05/22 12:31	06/03/22 11:52	1
Y Carrier	84.1		40 - 110					05/05/22 12:31	06/03/22 11:52	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.382	U	0.470	0.470	5.00	0.718	pCi/L		06/06/22 13:57	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-16

Lab Sample ID: 180-137407-46

Date Collected: 04/27/22 19:02

Matrix: Water

Date Received: 04/29/22 15:00

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

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	0.0852	U	0.252	0.252	1.00	0.469	pCi/L	05/05/22 11:53	06/03/22 17:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		40 - 110					05/05/22 11:53	06/03/22 17:10	1

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

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	0.465	U	0.421	0.423	1.00	0.667	pCi/L	05/05/22 12:31	06/03/22 11:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		40 - 110					05/05/22 12:31	06/03/22 11:53	1
Y Carrier	89.0		40 - 110					05/05/22 12:31	06/03/22 11:53	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium 226 and 228	0.550	U	0.491	0.492	5.00	0.667	pCi/L		06/06/22 13:56	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-17

Lab Sample ID: 180-137407-47

Date Collected: 04/27/22 10:06

Matrix: Water

Date Received: 04/29/22 15:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	0.118	U	0.216	0.216	1.00	0.387	pCi/L	05/05/22 11:53	06/03/22 17:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		40 - 110					05/05/22 11:53	06/03/22 17:11	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	-0.101	U	0.395	0.395	1.00	0.756	pCi/L	05/05/22 12:31	06/03/22 11:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		40 - 110					05/05/22 12:31	06/03/22 11:53	1
Y Carrier	86.0		40 - 110					05/05/22 12:31	06/03/22 11:53	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Combined Radium 226 + 228	0.0171	U	0.450	0.450	5.00	0.756	pCi/L		06/06/22 13:57	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: SW-17

Lab Sample ID: 180-137407-48

Date Collected: 04/27/22 10:23

Matrix: Water

Date Received: 04/29/22 15:00

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.258	U	0.249	0.250	1.00	0.378	pCi/L	05/05/22 11:53	06/03/22 17:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		40 - 110					05/05/22 11:53	06/03/22 17:11	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.460	U	0.440	0.442	1.00	0.703	pCi/L	05/05/22 12:31	06/03/22 11:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		40 - 110					05/05/22 12:31	06/03/22 11:44	1
Y Carrier	85.2		40 - 110					05/05/22 12:31	06/03/22 11:44	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.718		0.506	0.508	5.00	0.703	pCi/L		06/06/22 13:56	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: EB-01

Lab Sample ID: 180-137407-49

Date Collected: 04/27/22 07:58

Matrix: Water

Date Received: 04/29/22 15:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.124	U	0.156	0.156	1.00	0.379	pCi/L	05/05/22 11:53	06/03/22 17:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		40 - 110					05/05/22 11:53	06/03/22 17:11	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.312	U	0.270	0.271	1.00	0.421	pCi/L	05/05/22 12:31	06/03/22 11:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		40 - 110					05/05/22 12:31	06/03/22 11:45	1
Y Carrier	90.5		40 - 110					05/05/22 12:31	06/03/22 11:45	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.188	U	0.312	0.313	5.00	0.421	pCi/L		06/06/22 13:57	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: EB-02

Lab Sample ID: 180-137407-50

Date Collected: 04/27/22 16:17

Matrix: Water

Date Received: 04/29/22 15:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0712	U	0.184	0.184	1.00	0.343	pCi/L	05/05/22 11:53	06/03/22 17:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.5		40 - 110					05/05/22 11:53	06/03/22 17:11	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.547		0.324	0.328	1.00	0.460	pCi/L	05/05/22 12:31	06/03/22 11:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.5		40 - 110					05/05/22 12:31	06/03/22 11:45	1
Y Carrier	89.3		40 - 110					05/05/22 12:31	06/03/22 11:45	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.619		0.373	0.376	5.00	0.460	pCi/L		06/06/22 13:57	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: FB-01

Lab Sample ID: 180-137407-51

Date Collected: 04/27/22 08:06

Matrix: Water

Date Received: 04/29/22 15:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0236	U	0.132	0.132	1.00	0.302	pCi/L	05/05/22 11:53	06/03/22 17:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.8		40 - 110					05/05/22 11:53	06/03/22 17:32	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.512	U	0.346	0.349	1.00	0.514	pCi/L	05/05/22 12:31	06/03/22 11:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.8		40 - 110					05/05/22 12:31	06/03/22 11:45	1
Y Carrier	88.2		40 - 110					05/05/22 12:31	06/03/22 11:45	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.488	U	0.370	0.373	5.00	0.514	pCi/L		06/06/22 13:57	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Client Sample ID: FB-02

Lab Sample ID: 180-137407-52

Date Collected: 04/27/22 16:11

Matrix: Water

Date Received: 04/29/22 15:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.191	U	0.172	0.172	1.00	0.255	pCi/L	05/05/22 11:53	06/03/22 17:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.8		40 - 110					05/05/22 11:53	06/03/22 17:32	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.282	U	0.262	0.263	1.00	0.415	pCi/L	05/05/22 12:31	06/03/22 11:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.8		40 - 110					05/05/22 12:31	06/03/22 11:45	1
Y Carrier	90.8		40 - 110					05/05/22 12:31	06/03/22 11:45	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.474		0.313	0.314	5.00	0.415	pCi/L		06/06/22 13:57	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-563754/23-A
Matrix: Water
Analysis Batch: 568747

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 563754

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.1598	U	0.181	0.182	1.00	0.292	pCi/L	05/05/22 08:56	06/06/22 22:00	1
Carrier	MB	MB	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	%Yield	Qualifier	40 - 110							
Ba Carrier	92.0				05/05/22 08:56	06/06/22 22:00	1			

Lab Sample ID: LCS 160-563754/1-A
Matrix: Water
Analysis Batch: 568747

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 563754

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.09		1.32	1.00	0.369	pCi/L	89	75 - 125
Carrier	LCS	LCS	Limits		Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier	40 - 110						
Ba Carrier	88.5				05/05/22 08:56	06/06/22 22:00	1		

Lab Sample ID: LCSD 160-563754/2-A
Matrix: Water
Analysis Batch: 568747

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 563754

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits	RER	Limit
				Uncert. (2σ+/-)							
Radium-226	11.3	9.384		1.23	1.00	0.307	pCi/L	83	75 - 125	0.28	1
Carrier	LCSD	LCSD	Limits		Prepared	Analyzed	Dil Fac				
Ba Carrier	%Yield	Qualifier	40 - 110								
Ba Carrier	94.8				05/05/22 09:37	06/07/22 10:28	1				

Lab Sample ID: MB 160-563866/23-A
Matrix: Water
Analysis Batch: 568823

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 563866

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.005823	U	0.108	0.108	1.00	0.232	pCi/L	05/05/22 09:37	06/07/22 10:28	1
Carrier	MB	MB	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	%Yield	Qualifier	40 - 110							
Ba Carrier	98.5				05/05/22 09:37	06/07/22 10:28	1			

Lab Sample ID: LCS 160-563866/1-A
Matrix: Water
Analysis Batch: 568747

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 563866

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.75		1.36	1.00	0.275	pCi/L	95	75 - 125

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QC Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

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

Lab Sample ID: LCS 160-563866/1-A
Matrix: Water
Analysis Batch: 568747

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 563866

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	92.3		40 - 110

Lab Sample ID: LCSD 160-563866/2-A
Matrix: Water
Analysis Batch: 568747

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 563866

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec		RER	Limit
									Limits	RER		
Radium-226	11.3	10.12		1.33	1.00	0.435	pCi/L	89	75 - 125	0.23		1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	85.8		40 - 110

Lab Sample ID: MB 160-563891/21-A
Matrix: Water
Analysis Batch: 568250

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 563891

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	98.0		40 - 110	05/05/22 11:57	06/03/22 19:29	1

Lab Sample ID: LCS 160-563891/1-A
Matrix: Water
Analysis Batch: 568250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 563891

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec	
									Limits	RER
Radium-226	11.3	9.259		1.23	1.00	0.291	pCi/L	82	75 - 125	

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	95.5		40 - 110

Lab Sample ID: LCSD 160-563891/2-A
Matrix: Water
Analysis Batch: 568250

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 563891

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec		RER	Limit
									Limits	RER		
Radium-226	11.3	10.44		1.37	1.00	0.299	pCi/L	92	75 - 125	0.45		1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	84.3		40 - 110

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-563865/23-A
Matrix: Water
Analysis Batch: 568638

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 563865

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.2868	U	0.301	0.302	1.00	0.487	pCi/L	05/05/22 09:33	06/06/22 12:43	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	92.0		40 - 110		05/05/22 09:33	06/06/22 12:43	1			
Y Carrier	85.2		40 - 110		05/05/22 09:33	06/06/22 12:43	1			

Lab Sample ID: LCS 160-563865/1-A
Matrix: Water
Analysis Batch: 568629

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 563865

Analyte	LCS		Spike	LCS	Total	RL	MDC	Unit	%Rec	%Rec Limits
	%Yield	Qualifier	Added	Result	Qual					
Radium-228			8.56	9.424		1.00	0.537	pCi/L	110	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	88.5		40 - 110							
Y Carrier	86.4		40 - 110							

Lab Sample ID: LCSD 160-563865/2-A
Matrix: Water
Analysis Batch: 568629

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 563865

Analyte	LCSD		Spike	LCSD	Total	RL	MDC	Unit	%Rec	%Rec Limits	RER	Limit
	%Yield	Qualifier	Added	Result	Qual							
Radium-228			8.56	9.781		1.00	0.507	pCi/L	114	75 - 125	0.14	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits									
Ba Carrier	94.8		40 - 110									
Y Carrier	84.5		40 - 110									

Lab Sample ID: MB 160-563868/23-A
Matrix: Water
Analysis Batch: 568747

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 563868

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.2345	U	0.261	0.262	1.00	0.427	pCi/L	05/05/22 10:02	06/06/22 12:58	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	98.5		40 - 110		05/05/22 10:02	06/06/22 12:58	1			
Y Carrier	90.8		40 - 110		05/05/22 10:02	06/06/22 12:58	1			

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

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

Lab Sample ID: LCS 160-563868/1-A
Matrix: Water
Analysis Batch: 568638

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 563868

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
									75	125
Radium-228	8.56	8.288		1.16	1.00	0.502	pCi/L	97	75 - 125	
LCS LCS										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	92.3		40 - 110							
Y Carrier	84.1		40 - 110							

Lab Sample ID: LCSD 160-563868/2-A
Matrix: Water
Analysis Batch: 568638

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 563868

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		RER	RER Limit
									75	125	0.10	1
Radium-228	8.56	8.051		1.14	1.00	0.467	pCi/L	94	75 - 125	0.10	1	
LCSD LCSD												
Carrier	%Yield	Qualifier	Limits									
Ba Carrier	85.8		40 - 110									
Y Carrier	86.4		40 - 110									

Lab Sample ID: MB 160-563895/21-A
Matrix: Water
Analysis Batch: 568277

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 563895

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
MB MB										
Carrier	%Yield	Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	98.0		40 - 110		05/05/22 12:31	06/03/22 11:49	1			
Y Carrier	91.2		40 - 110		05/05/22 12:31	06/03/22 11:49	1			

Lab Sample ID: LCS 160-563895/1-A
Matrix: Water
Analysis Batch: 568250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 563895

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
									75	125
Radium-228	8.57	10.11		1.33	1.00	0.487	pCi/L	118	75 - 125	
LCS LCS										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	95.5		40 - 110							
Y Carrier	83.0		40 - 110							

QC Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

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

Lab Sample ID: LCSD 160-563895/2-A
 Matrix: Water
 Analysis Batch: 568250

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 563895

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	8.57	9.632		1.31	1.00	0.468	pCi/L	112	75 - 125	0.18	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	84.3		40 - 110
Y Carrier	86.7		40 - 110

- 1
- 2
- 3
- 4
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- 6
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- 8
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- 10
- 11
- 12
- 13

QC Association Summary

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Rad

Prep Batch: 563754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-137407-1	SW-1	Total/NA	Water	PrecSep-21	
180-137407-2	SW-1	Dissolved	Water	PrecSep-21	
180-137407-3	SW-1	Total/NA	Water	PrecSep-21	
180-137407-4	SW-1	Dissolved	Water	PrecSep-21	
180-137407-5	SW-2	Total/NA	Water	PrecSep-21	
180-137407-6	SW-2	Dissolved	Water	PrecSep-21	
180-137407-7	SW-2	Total/NA	Water	PrecSep-21	
180-137407-8	SW-2	Dissolved	Water	PrecSep-21	
180-137407-9	SW-3	Total/NA	Water	PrecSep-21	
180-137407-10	SW-3	Dissolved	Water	PrecSep-21	
180-137407-11	SW-3	Total/NA	Water	PrecSep-21	
180-137407-12	SW-3	Dissolved	Water	PrecSep-21	
180-137407-13	SW-4	Total/NA	Water	PrecSep-21	
180-137407-14	SW-4	Dissolved	Water	PrecSep-21	
180-137407-15	DUP-01	Total/NA	Water	PrecSep-21	
180-137407-16	DUP-01	Dissolved	Water	PrecSep-21	
180-137407-17	SW-5	Total/NA	Water	PrecSep-21	
180-137407-18	SW-5	Dissolved	Water	PrecSep-21	
180-137407-19	SW-5	Total/NA	Water	PrecSep-21	
180-137407-20	SW-5	Dissolved	Water	PrecSep-21	
MB 160-563754/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-563754/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-563754/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 563865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-137407-1	SW-1	Total/NA	Water	PrecSep_0	
180-137407-2	SW-1	Dissolved	Water	PrecSep_0	
180-137407-3	SW-1	Total/NA	Water	PrecSep_0	
180-137407-4	SW-1	Dissolved	Water	PrecSep_0	
180-137407-5	SW-2	Total/NA	Water	PrecSep_0	
180-137407-6	SW-2	Dissolved	Water	PrecSep_0	
180-137407-7	SW-2	Total/NA	Water	PrecSep_0	
180-137407-8	SW-2	Dissolved	Water	PrecSep_0	
180-137407-9	SW-3	Total/NA	Water	PrecSep_0	
180-137407-10	SW-3	Dissolved	Water	PrecSep_0	
180-137407-11	SW-3	Total/NA	Water	PrecSep_0	
180-137407-12	SW-3	Dissolved	Water	PrecSep_0	
180-137407-13	SW-4	Total/NA	Water	PrecSep_0	
180-137407-14	SW-4	Dissolved	Water	PrecSep_0	
180-137407-15	DUP-01	Total/NA	Water	PrecSep_0	
180-137407-16	DUP-01	Dissolved	Water	PrecSep_0	
180-137407-17	SW-5	Total/NA	Water	PrecSep_0	
180-137407-18	SW-5	Dissolved	Water	PrecSep_0	
180-137407-19	SW-5	Total/NA	Water	PrecSep_0	
180-137407-20	SW-5	Dissolved	Water	PrecSep_0	
MB 160-563865/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-563865/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-563865/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

QC Association Summary

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Rad

Prep Batch: 563866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-137407-21	SW-6	Total/NA	Water	PrecSep-21	
180-137407-22	SW-6	Dissolved	Water	PrecSep-21	
180-137407-23	SW-6	Total/NA	Water	PrecSep-21	
180-137407-24	SW-6	Dissolved	Water	PrecSep-21	
180-137407-25	SW-9	Total/NA	Water	PrecSep-21	
180-137407-26	SW-9	Dissolved	Water	PrecSep-21	
180-137407-27	SW-9	Total/NA	Water	PrecSep-21	
180-137407-28	SW-9	Dissolved	Water	PrecSep-21	
180-137407-29	SW-10	Total/NA	Water	PrecSep-21	
180-137407-30	SW-10	Dissolved	Water	PrecSep-21	
180-137407-31	DUP-02	Total/NA	Water	PrecSep-21	
180-137407-32	DUP-02	Dissolved	Water	PrecSep-21	
180-137407-33	SW-11	Total/NA	Water	PrecSep-21	
180-137407-34	SW-11	Dissolved	Water	PrecSep-21	
180-137407-35	SW-12	Total/NA	Water	PrecSep-21	
180-137407-36	SW-12	Dissolved	Water	PrecSep-21	
180-137407-37	SW-13	Total/NA	Water	PrecSep-21	
180-137407-38	SW-13	Dissolved	Water	PrecSep-21	
180-137407-39	SW-14	Total/NA	Water	PrecSep-21	
180-137407-40	SW-14	Dissolved	Water	PrecSep-21	
MB 160-563866/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-563866/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-563866/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 563868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-137407-21	SW-6	Total/NA	Water	PrecSep_0	
180-137407-22	SW-6	Dissolved	Water	PrecSep_0	
180-137407-23	SW-6	Total/NA	Water	PrecSep_0	
180-137407-24	SW-6	Dissolved	Water	PrecSep_0	
180-137407-25	SW-9	Total/NA	Water	PrecSep_0	
180-137407-26	SW-9	Dissolved	Water	PrecSep_0	
180-137407-27	SW-9	Total/NA	Water	PrecSep_0	
180-137407-28	SW-9	Dissolved	Water	PrecSep_0	
180-137407-29	SW-10	Total/NA	Water	PrecSep_0	
180-137407-30	SW-10	Dissolved	Water	PrecSep_0	
180-137407-31	DUP-02	Total/NA	Water	PrecSep_0	
180-137407-32	DUP-02	Dissolved	Water	PrecSep_0	
180-137407-33	SW-11	Total/NA	Water	PrecSep_0	
180-137407-34	SW-11	Dissolved	Water	PrecSep_0	
180-137407-35	SW-12	Total/NA	Water	PrecSep_0	
180-137407-36	SW-12	Dissolved	Water	PrecSep_0	
180-137407-37	SW-13	Total/NA	Water	PrecSep_0	
180-137407-38	SW-13	Dissolved	Water	PrecSep_0	
180-137407-39	SW-14	Total/NA	Water	PrecSep_0	
180-137407-40	SW-14	Dissolved	Water	PrecSep_0	
MB 160-563868/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-563868/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-563868/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

QC Association Summary

Client: Southern Company
 Project/Site: Plant Watson Ash Pond Surfacewater

Job ID: 180-137407-2

Rad

Prep Batch: 563891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-137407-41	SW-15	Total/NA	Water	PrecSep-21	
180-137407-42	SW-15	Dissolved	Water	PrecSep-21	
180-137407-43	DUP-03	Total/NA	Water	PrecSep-21	
180-137407-44	DUP-03	Dissolved	Water	PrecSep-21	
180-137407-45	SW-16	Total/NA	Water	PrecSep-21	
180-137407-46	SW-16	Dissolved	Water	PrecSep-21	
180-137407-47	SW-17	Total/NA	Water	PrecSep-21	
180-137407-48	SW-17	Dissolved	Water	PrecSep-21	
180-137407-49	EB-01	Total/NA	Water	PrecSep-21	
180-137407-50	EB-02	Total/NA	Water	PrecSep-21	
180-137407-51	FB-01	Total/NA	Water	PrecSep-21	
180-137407-52	FB-02	Total/NA	Water	PrecSep-21	
MB 160-563891/21-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-563891/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCS 160-563891/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 563895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-137407-41	SW-15	Total/NA	Water	PrecSep_0	
180-137407-42	SW-15	Dissolved	Water	PrecSep_0	
180-137407-43	DUP-03	Total/NA	Water	PrecSep_0	
180-137407-44	DUP-03	Dissolved	Water	PrecSep_0	
180-137407-45	SW-16	Total/NA	Water	PrecSep_0	
180-137407-46	SW-16	Dissolved	Water	PrecSep_0	
180-137407-47	SW-17	Total/NA	Water	PrecSep_0	
180-137407-48	SW-17	Dissolved	Water	PrecSep_0	
180-137407-49	EB-01	Total/NA	Water	PrecSep_0	
180-137407-50	EB-02	Total/NA	Water	PrecSep_0	
180-137407-51	FB-01	Total/NA	Water	PrecSep_0	
180-137407-52	FB-02	Total/NA	Water	PrecSep_0	
MB 160-563895/21-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-563895/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCS 160-563895/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record



Environmental Testing
America

Client Information		Sampler: <i>Rick Heyndrickx / Brodbeck</i>		Lab PM: Brown, Shail		Carrier Tracking No(s):		COC No:	
Client Contact: SCS Contacts		Phone: <i>356-336-0192</i>		E-Mail: shall.brown@eurofinset.com				Page: <i>1 of 6</i>	
Company: SCS		Address: 3535 Colonnade Pkwy Bin S 530 EC		City: Birmingham		State, Zip: AL, 35243		Job #:	
Phone: 205-992-6283		Email: SCS Contacts		Project Name: Plant Watson		Project #: 18020186		Preservation Codes:	
Site: Ash Pond (Surface Water)		SSOW#:		Matrix (W=water, S=solid, O=water/soil, BT=Tissue, AA=Air)		Analysis Requested		Other:	
				Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of containers	
				2540C Total Dissolved Solids		300_280Day Chloride Fluoride Sulfate		9315_Ra226 Radium 226	
				9320C Total Dissolved Solids		6020B/7470 Custom 14 (Appl/IV+g) + Mercury		9320C_Ra228 Radium 228	
				Combined RAD					
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix	
								DEPTH GOES HERE	
						Preservation Code:		Special Instructions/Note:	
SW-1		4-27-22		1736		G		SW	
SW-1				1743				SW	
SW-1				1751				SW	
SW-1				1757				SW	
SW-2				1649				SW	
SW-2				1703				SW	
SW-2				1713				SW	
SW-2				1721				SW	
SW-3				0842				SW	
SW-3				0907				SW	
SW-3				0920				SW	
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
<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		<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)		Special Instructions/QC Requirements: <i>COIFF TEST AS FIELD KIT FOR FF on bottles denotes those bottles are field filtered</i>							
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:			
Relinquished by: <i>Rick Heyndrickx</i>		Date/Time: 4-28-22 1405		Company: RDA ENV		Received by: <i>[Signature]</i>		Date/Time: 4/29/22 1508	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks:			

180-137407 Chain of Custody



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- 2
- 3
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- 13

Chain of Custody Record



Client Information		Sampler: <i>Elex / Hopedar / Bradlock</i>		Lab PM: Brown, Shali		Carrier Tracking No(s):		COC No:									
Client Contact:		Phone: <i>850-330-0192</i>		E-Mail: shali.brown@eurominset.com				Page: <i>2 of 6</i>									
SCS Contacts								Job #:									
Company: SCS																	
Address: 3535 Colonnade Pkwy Bin S 530 EC		Due Date Requested:															
City: Birmingham		TAT Requested (days):															
State, Zip: AL, 35243																	
Phone: 205-992-6283		PO #:															
Email:		WO #:															
SCS Contacts																	
Project Name: Plant Watson		Project #:		18020186													
Site: Ash Pond (Surface Water)		SSOW#:															
								Analysis Requested Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 2540C Total Dissolved Solids 300_28Day Chloride Fluoride Sulfate 6020B/7470 Custom 14 (App/III/APP/IV-9) + Mercury 9315_Raz28 Radium 226 9320_Raz28 Radium 228 Combined RAD Total Number of containers									
								Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)									
								DEPTH GOES HERE Special Instructions/Note:									
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C Total Dissolved Solids	300_28Day Chloride Fluoride Sulfate	6020B/7470 Custom 14 (App/III/APP/IV-9) + Mercury	9315_Raz28 Radium 226	9320_Raz28 Radium 228	Combined RAD	Total Number of containers			
				Preservation Code:													
SW-3		4-27-22	0933	G	SW	X	X	X	X		X	X	X	Depth = 4ft			
SW-4			1050		SW			X	X	X	X	X	X	Depth = 1.5ft			
SW-4			1118		SW	X		X	X	X	X	X	X	Depth = 1.5ft			
sw DIT	Dup-01		0950		SW			X	X	X	X	X	X	Depth = 1.5ft			
sw DIT	Dup-01		1018		SW	X		X	X	X	X	X	X	Depth = 1.5ft			
SW-5			0807		SW			X	X	X	X	X	X	Depth = 1ft			
SW-5			0707		SW	X		X	X	X	X	X	X	Depth = 1ft			
SW-5			0835		SW			X	X	X	X	X	X	Depth = 13ft			
SW-5			0735		SW	X		X	X	X	X	X	X	Depth = 13ft			
SW-6			0919		SW			X	X	X	X	X	X	Depth = 1ft			
SW-6		↓ RDH	0930	↓ RDH	SW	X		X	X	X	X	X	X	Depth = 1ft			
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)											
<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						<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)						Special Instructions/QC Requirements:											
Empty Kit Relinquished by:			Date:			Time:			Method of Shipment:								
Relinquished by: <i>Rick Hughes</i>			Date/Time: 4-28-22 1405			Company: <i>RDH ENV.</i>			Received by: <i>[Signature]</i>			Date/Time: 4/29/22 1450			Company: <i>[Signature]</i>		
Relinquished by:			Date/Time:			Company:			Received by:			Date/Time:			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:											



Chain of Custody Record

Client Information	Sampler: <i>Six Meters Trevor Braddock</i>	Lab PM: Brown, Shali	Carrier Tracking No(s):	COC No:
Client Contact: SCS Contacts	Phone: <i>850-338-0192</i>	E-Mail: shali.brown@eurofinset.com		Page: <i>3 of 6</i>
Company: SCS				Job #:

Address: 3535 Colonnade Pkwy Bin S 530 EC	Due Date Requested:	Analysis Requested				Preservation Codes:
City: Birmingham	TAT Requested (days):	Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 2540C Total Dissolved Solids 300_28Day Chloride Fluoride Sulfate 6020B/7470 Custom 14 (AppIII/AppIV-8) + Mercury				A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA
State, Zip: AL, 35243						M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)
Phone: 205-992-6283	PO #:					
Email: SCS Contacts	WO #:					
Project Name: Plant Watson	Project #: 18020186					
Site: Ash Pond (Surface Water)	SSOW#:				Other:	

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)	Perform MS/MSD (Yes or No)	2540C Total Dissolved Solids	300_28Day Chloride Fluoride Sulfate	6020B/7470 Custom 14 (AppIII/AppIV-8) + Mercury				9315_Raz26 Radium 226	9320_Raz28 Radium 228	Combined RAD	Total Number of containers	Special Instructions/Note:	
																	DEPTH GOES HERE	
SW-6	4-27-22	0945	G	SW			X	X	X				X	X	X		Depth =	9.5 ft
SW-6		0952		SW	X		X	X	X				X	X	X		Depth =	9.5 ft
SW-9		1221		SW			X	X	X				X	X	X		Depth =	1 ft
SW-9		1229		SW	X		X	X	X				X	X	X		Depth =	1 ft
SW-9		1242		SW			X	X	X				X	X	X		Depth =	4 ft
SW-9		1252		SW	X		X	X	X				X	X	X		Depth =	4 ft
SW-10		1131		SW			X	X	X				X	X	X		Depth =	2 ft
SW-10		1145		SW	X		X	X	X				X	X	X		Depth =	2 ft
SW-10 <i>DUP-02</i>		1031		SW			X	X	X				X	X	X		Depth =	2 ft
SW-10 <i>DUP-02</i>		1045		SW	X		X	X	X				X	X	X		Depth =	2 ft
SW-11	<i>✓ RDX</i>	1058	<i>✓ RDX</i>	SW			X	X	X				X	X	X		Depth =	1 ft

Possible Hazard Identification <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) <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)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: <i>Ruby Hayes</i>	Date/Time: <i>4-28-22 1405</i>	Company: <i>RDH ENV.</i>	Received by: <i>[Signature]</i> Date/Time: <i>4/28/22 1350</i> Company: <i>[Signature]</i>
Relinquished by:	Date/Time:	Company:	Received by: Date/Time: Company:
Relinquished by:	Date/Time:	Company:	Received by: Date/Time: Company:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
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Chain of Custody Record

Client Information				Sampler: <u>RICK Hedges/Porter/Braddock</u>		Lab PM: Brown, Shali		Carrier Tracking No(s):		COC No:				
Client Contact				Phone: <u>850-336-0192</u>		E-Mail: shali.brown@eurofinset.com				Page: <u>4 of 6</u>				
Company: SCS				Analysis Requested								Job #:		
Address: 3535 Colonnade Pkwy Bin S 530 EC				Due Date Requested:								Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:		
City: Birmingham				TAT Requested (days):										
State, Zip: AL, 35243				PO #:										
Phone: 205-992-6283				WO #:										
Email: SCS Contacts				Project #:		18020186								
Project Name: Plant Watson				SSOW#:										
Site: Ash Pond (Surface Water)														
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of containers					Special Instructions/Note:		
							2540C Total Dissolved Solids	300_280Day Chloride Fluoride Sulfate	6020B/7470 Custom 14 (Appl/II/III/IV/9) + Mercury	9315_Ra228 Radium 226	9320_Ra228 Radium 228		Combined RAD	
SW-11	4-27-22	1106	G	SW	X	X	X	X			X	X	X	Depth =
SW-11 <u>ROH</u>				SW			X	X	X		X	X	X	Depth =
SW-11 <u>ROH</u>				SW	X	X	X	X			X	X	X	Depth =
SW-12		1030		SW			X	X	X		X	X	X	Depth = <u>1ft</u>
SW-12		1039		SW	X	X	X	X			X	X	X	Depth = <u>1ft</u>
SW-12 <u>ROH</u>				SW			X	X	X		X	X	X	Depth =
SW-12 <u>ROH</u>				SW	X	X	X	X			X	X	X	Depth =
SW-13		1221		SW			X	X	X		X	X	X	Depth = <u>1ft</u>
SW-13		1233		SW	X	X	X	X			X	X	X	Depth = <u>1ft</u>
SW-13 <u>ROH</u>				SW			X	X	X		X	X	X	Depth =
SW-13 <u>ROH</u>				SW	X	X	X	X			X	X	X	Depth =

Chain of Custody Record



Client Information		Sampler: <i>Rick Henderson / Trevor Braddock</i>		Lab PM: Brown, Shali		Carrier Tracking No(s):		COC No:																					
Client Contact:		Phone: <i>850-336-0192</i>		E-Mail: shali.brown@eurofinset.com				Page: <i>5 of 6</i>																					
SCS Contacts								Job #:																					
Company: SCS		Analysis Requested																											
Address: 3535 Colonnade Pkwy Bin S 530 EC		Due Date Requested:		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No)		2640C Total Dissolved Solids		300_28Day Chloride Fluoride Sulfate		6020B/7470 Custom 14 (AppIII/APPV+3) + Mercury		9316_Ra228 Radium 226		9320_Ra228 Radium 228		Combined RAD		Total Number of containers		Preservation Codes:									
City: Birmingham		TAT Requested (days):																		A - HCL		M - Hexane							
State, Zip: AL, 35243		PO #:																		B - NaOH		N - None							
Phone: 205-992-6283		WO #:																		C - Zn Acetate		O - AsNaO2							
Email:		Project #:		D - Nitric Acid		P - Na2O4S		E - NaHSO4		Q - Na2SO3		F - MeOH		R - Na2S2O3		G - Amchlor		S - H2SO4											
SCS Contacts		Project #:		H - Ascorbic Acid		T - TSP Dodecahydrate		I - Ice		U - Acetone		J - DI Water		V - MCAA		K - EDTA		W - pH 4-5											
Project Name: Plant Watson		SSOW#:		L - EDA		Z - other (specify)																							
Site: Ash Pond (Surface Water)																													
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Preservation Code:		DEPTH GOES HERE		Special Instructions/Note:															
SW-14		4-27-22		1255		G		SW		X X X		X X X		Depth = 1.5 ft															
SW-14				1316				SW		X X X		X X X		Depth = 1.5 ft															
SW-14 RDH								SW		X X X		X X X		Depth =															
SW-14 FDH								SW		X X X		X X X		Depth =															
SW-15				1343				SW		X X X		X X X		Depth = 1.5 ft															
SW-15				1404				SW		X X X		X X X		Depth = 1.5 ft															
SW-15 RDH		DUP-03		1243				SW		X X X		X X X		Depth = 1.5 ft															
SW-15 RDH		DUP-03		1304				SW		X X X		X X X		Depth = 1.5 ft															
SW-16				1849				SW		X X X		X X X		Depth = 1.5 ft															
SW-16				1902				SW		X X X		X X X		Depth = 1.5 ft															
SW-16 RDH								SW		X X X		X X X		Depth =															
Possible Hazard Identification										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																			
<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										<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)										Special Instructions/QC Requirements:																			
Empty Kit Relinquished by:					Date:					Time:					Method of Shipment:														
Relinquished by: <i>[Signature]</i>					Date/Time: 4-28-22 1405					Company: RDH ENV.					Received by: <i>[Signature]</i>					Date/Time: 4/29/22 1500					Company: <i>[Signature]</i>				
Relinquished by:					Date/Time:					Company:					Received by:					Date/Time:					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:																			

Chain of Custody Record

Client Information		Sampler: <i>Alex / Trevor</i> <i>Hogendorn / Braddock</i>		Lab PM: Brown, Shali		Carrier Tracking No(s):		COC No:	
Client Contact:		Phone: <i>850-336-0192</i>		E-Mail: shali.brown@euromins.com				Page: <i>6 of 6</i>	
Company: SCS		Address: 3535 Colonnade Pkwy Bin S 530 EC		Due Date Requested:		Analysis Requested		Job #: <i>656</i>	
City: Birmingham		State, Zip: AL, 35243		TAT Requested (days):					
Phone: 205-992-6283		Email: SCS Contacts		WO #:		Perform MS/MSD (Yes or No) 2540C Total Dissolved Solids 300_28Day Chloride Fluoride Sulfate 6020B/7470 Custom 14 (AppIII/AppIV+9) + Mercury 9315_Ra226 Radium 226 9320_Ra228 Radium 228 Combined RAD		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)	
Project Name: Plant Watson		Project #: 18020186		SSOW#:					
Site: Ash Pond (Surface Water)		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	
								Total Number of containers	
								DEPTH GOES HERE	
								Special Instructions/Note:	
SW-16								Depth =	
SW-17		4-27-22		1006		G		Depth = <i>1ft</i>	
SW-17		4-27-22		1023		G		Depth = <i>1ft</i>	
SW-17 <i>ROH</i>								Depth =	
SW-17 <i>ROH</i>								Depth =	
EB-01		4-27-22		0758		G		Depth = <i>DI water/total only</i>	
EB-02				1617				Depth =	
FB-01				0806				Depth =	
FB-02		<i>ROH</i>		1611		<i>ROH</i>		Depth = <i>ROH</i>	
								Depth =	
								Depth =	
								Depth =	
Possible Hazard Identification		<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)					
Deliverable Requested: I, II, III, IV, Other (specify)								<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Special Instructions/QC Requirements:									
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:			
Relinquished by: <i>Randy</i>		Date/Time: 4-28-22 1405		Company: <i>ROH ENV.</i>		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:					



ORIGIN ID:PNSA (850) 336-0192

RDH ENVIRONMENTAL
5720 DOBE DR

PAGE, FL 32571
UNITED STATES US

SHIP DATE: 28APR22
ACTWT: 77.40 LB
CAD: 6994795/55FE23
DIMS: 23x13x13 IN

BILL THIRD PARTY

ORIGIN ID:PNSA (850) 336-0192

RDH ENVIRONMENTAL
5720 DOBE DR

PAGE, FL 32571
UNITED STATES US

SHIP DATE: 28APR22
ACTWT: 75.25 LB
CAD: 6994795/55FE23
DIMS: 23x13x13 IN

BILL THIRD PARTY

TO

EUROFINS
301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238

1500

(412) 963-7068
PH: PO:

REF:

DEPT:

TO

EUROFINS
301 ALPHA DR RIDC PARK

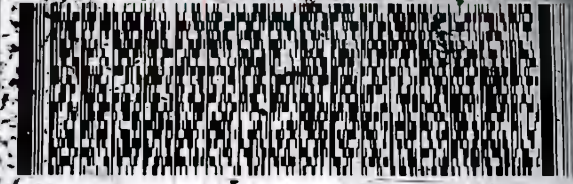
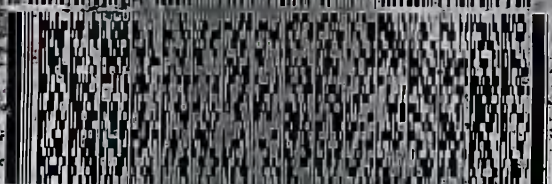
PITTSBURGH PA 15238

1500

(412) 963-7068
PH: PO:

REF:

DEPT:



FedEx
Express



TRK# 2725 5431 0512
0201

FRI - 29 APR
STANDARD OVERNIGHT

TRK# 2725 5457 0970
0201

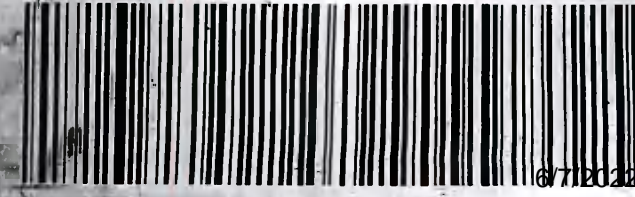
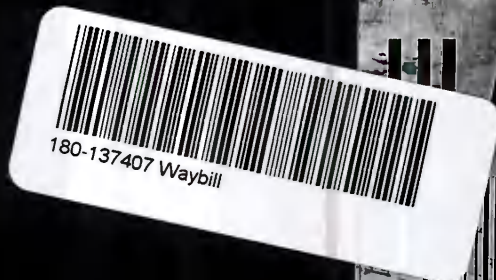
FRI - 29 APR 4:30P
STANDARD OVERNIGHT

UI AGCA

2.1 ct - 6.4
Thurs 16
PA-US

UI AGCA

3.2 ct - 0.1 AHS
Thurs 16
PA-US PIT



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PACE, FL 32571
UNITED STATES US

BILL THIRD PARTY

PACE, FL 32571
UNITED STATES US

BILL THIRD PARTY

EUROFINS
301 ALPHA DR RIDG PARK

1500

EUROFINS
301 ALPHA DR RIDG PARK

500

PITTSBURGH PA 15238

PITTSBURGH PA 15238

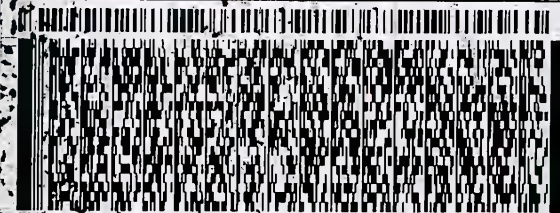
(412) 963-7068

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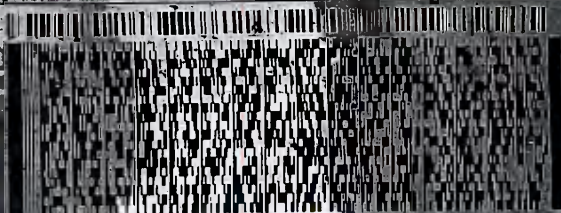
DEPT:

(412) 963-7068

REF:



Fe



TRK# 2725 5422 5795
020E

FRI - 29 APR
STANDARD OVERNIGHT

TRK# 2725 5454 4067
0201

FRI - 29 APR
STANDARD OVERNIGHT

UI AGCA

3.8 4-24
Term 16

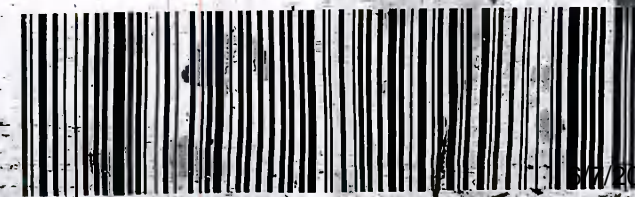
PA-US

UI AGCA

3.8 Term 16
4-24

PA-US

AHS 238
PIT



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UNITED STATES US

BILL THIRD PARTY

PACE, FL 32571
UNITED STATES US

BILL THIRD PARTY

TO
EUROFINS
301 ALPHA DR RIDC PARK
PITTSBURGH PA 15238

150

(412) 963-7068
TRK#
PO: REF: DEPT:

TO
EUROFINS
301 ALPHA DR RIDC PARK
PITTSBURGH PA 15238

150

(412) 963-7068
TRK#
PO: REF: DEPT:



TRK# 2725 5440 7780
0201

FRI - 29 APR
STANDARD OVERNIGHT

UI AGCA

4.2 (11.04)
Thank



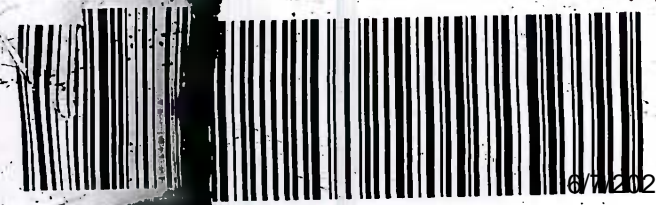
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0201

FRI - 29 APR 4:30P
STANDARD OVERNIGHT

UI AGCA

2.3 (11.04)
Thank

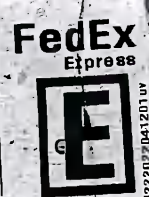
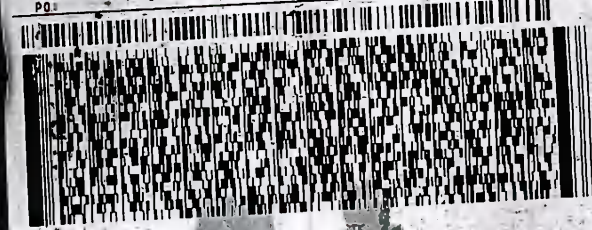
AHS 15238
PA-US PIT



TO: PNSA (850) 336-0192
ENVIRONMENTAL
301 ALPHA DR
PITTSBURGH PA 15238
PA 32571
UNITED STATES US

SHIP DATE:
ACTWT:
CAD: 699
DIMS: 23x13x10
BILL THIRD PARTY

SHIP DATE: 28APR22
ACTWT: 77.35
CAD: 6994785756FE2300
DIMS: 23x13x10 IN
BILL THIRD PARTY



TRK# 2725 5427 2941
0201
UI AGCA 3.1 9-6.9
Pamela
PA-US
FRI - 29 APR 4:30P
STANDARD OVERNIGHT
AHS 15238
PIT



5449 4687
GCA
3.7 9-0.4
Therall
PA-US
FRI - 29 APR 4:30P
STANDARD OVERNIGHT
AHS 15238
PIT



ORIGIN ID:PNSA (850) 336-0192

RDH ENVIRONMENTAL
5720 DOBE DR

PACE, FL 32571
UNITED STATES US

SHIP DATE: 28APR22
ACTWGT: 73.70 LB
CAD: 6994795/SSFB
DIMS: 23x13x13 IN

BILL THIRD PARTY

ORIGIN ID:PNSA (850) 336-0192

RDH ENVIRONMENTAL
5720 DOBE DR

PACE, FL 32571
UNITED STATES US

SHIP DATE: 28APR22
ACTWGT: 65.70 LB
CAD: 6994795/SSFB
DIMS: 23x13x13 IN

BILL THIRD PARTY

EUROFINS
301 ALPHA DR RIDC PARK

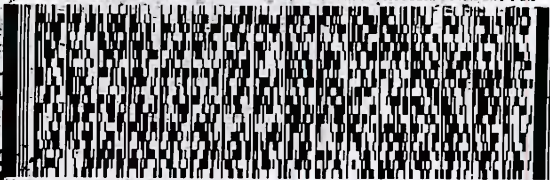
PITTSBURGH PA 15238

(412) 963-7068

REF:

INU:
PO:

DEPT:



EUROFINS
301 ALPHA DR RIDC PARK

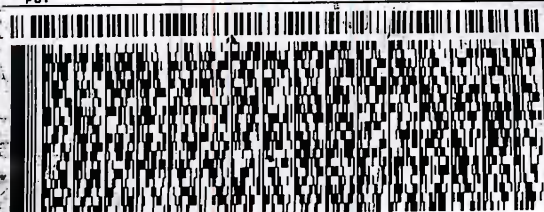
PITTSBURGH PA 15238

(412) 963-7068

REF:

INU:
PO:

DEPT:



FedEx
Express



FRI - 29 APR
STANDARD OVERNIGHT

TRK# 2725 5425 0708
0201

UI AGCA

2.1 CF-0.4

PA-US



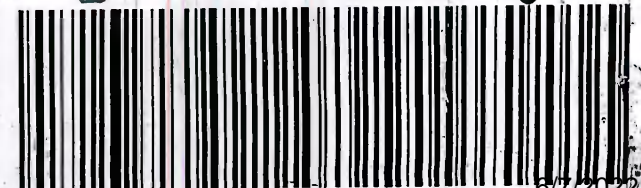
FRI - 29 APR 4:30P
STANDARD OVERNIGHT

TRK# 2725 5436 2818
0201

UI AGCA

2.6 CF-0.4
15238
PIT

PA-US



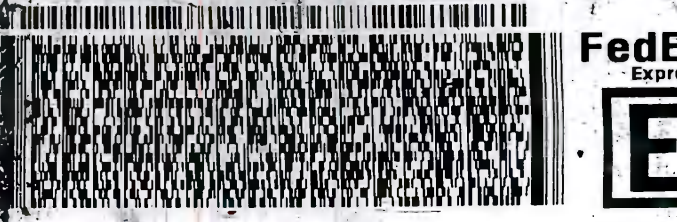
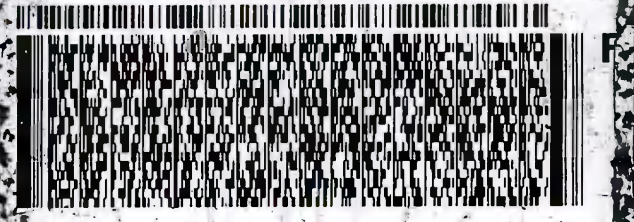
ORIGIN ID: PNSA (850) 336-0192
SHIP DATE: 28 APR
ACTWT: 67.90 LB
CAD: 6994295/SSFE
DIMS: 23x13x13 I
RDH ENVIRONMENTAL
5720 DOBE DR
PACEL FL 32571
UNITED STATES US

ORIGIN ID: PNSA (850) 336-0192
SHIP DATE: 28 APR
ACTWT: 67.90 LB
CAD: 6994295/SSFE
DIMS: 23x13x13 I
RDH ENVIRONMENTAL
5720 DOBE DR
PACEL FL 32571
UNITED STATES US

SHIP DATE: 28 APR
ACTWT: 67.90 LB
CAD: 6994295/SSFE
DIMS: 23x13x13 I
RDH ENVIRONMENTAL
5720 DOBE DR
PACEL FL 32571
UNITED STATES US

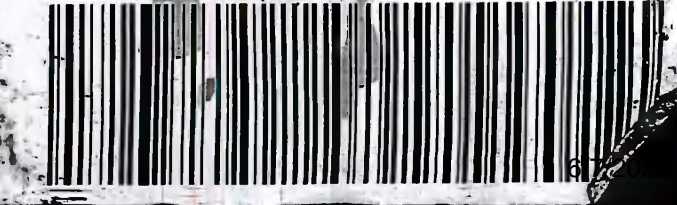
TO
EUROFINS
301 ALPHA DR RIDC PARK *1500*
PITTSBURGH PA 15238
(412) 963-7068
REF: INU: PO: DEPT:

TO
EUROFINS
301 ALPHA DR RIDC PARK *500*
PITTSBURGH PA 15238
(412) 963-7068
REF: INU: PO: DEPT:



TRK# 2725 5442 9693
Q201
UI AGCA
FRI - 29 APR
STANDARD OVERNIGHT
2.8 G-04

TRK# 2725 5451 8519
Q201
UI AGCA *3.1 G-01*
FRI - 29 APR 4:30P
STANDARD OVERNIGHT
15238
PA-US PIT
Thank



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Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM Brown, Shali	Carrier Tracking No(s)	COC No: 180-460531.1
Client Contact Shipping/Receiving		E-Mail: Shali.Brown@et.eurofins.com	State of Origin: Georgia	Page Page 1 of 6
Company: TestAmerica Laboratories, Inc.		Job #: 180-137407-2		
Address 13715 Rider Trail North,		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2OxS Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA L - EDA Z - other (specify)		
City: Earth City		Analysis Requested		
State, Zip MO, 63045		Total Number of containers		
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		9320_Ra226/rsecsep_21 Radium 226		
Email:		9315_Ra226/rsecsep_21 Radium 226		
Project Name: Plant Watson Ash Pond Surfacewater		9315_Ra226/rsecsep_21 Radium 226		
Site: 18020186		9320_Ra226/rsecsep_0 Radium 226		
SSOW#		9320_Ra226/rsecsep_0 Radium 226		
Sample Identification - Client ID (Lab ID)		Special Instructions/Note:		
SW-1 (180-137407-1)	Sample Date 4/27/22	Sample Time 17:36 Eastern	Sample Type (C=comp, G=grab) G=grab	Matrix (W=water, S=solid, O=soil, BT=tissue, A=air)
SW-1 (180-137407-2)	4/27/22	17:43 Eastern		Water
SW-1 (180-137407-3)	4/27/22	17:51 Eastern		Water
SW-1 (180-137407-4)	4/27/22	17:57 Eastern		Water
SW-2 (180-137407-5)	4/27/22	16:49 Eastern		Water
SW-2 (180-137407-6)	4/27/22	17:03 Eastern		Water
SW-2 (180-137407-7)	4/27/22	17:13 Eastern		Water
SW-2 (180-137407-8)	4/27/22	17:21 Eastern		Water
SW-3 (180-137407-9)	4/27/22	08:42 Eastern		Water
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/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) _____				
Empty Kit Relinquished by: _____ Date: _____ Time: _____				
Relinquished by: _____ Date/Time: _____				
Relinquished by: _____ Date/Time: _____				
Relinquished by: _____ Date/Time: _____				
Custody Seals Intact Δ Yes Δ 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) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Special Instructions/QC Requirements:				
Method of Shipment: Date/Time: _____ Date/Time: _____ Date/Time: _____ Date/Time: _____				
Received by: _____ Received by: _____ Received by: _____				
Company: _____ Company: _____ Company: _____				

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:	Lab PM: Brown, Shali	Carrier Tracking No(s):	COC No: 180-460531.2									
Client Contact: Shipping/Receiving		Phone:	E-Mail: Shali.Brown@et.eurofins.com	State of Origin: Georgia	Page: Page 2 of 6									
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): 180-137407-2												
Address: 13715 Rider Trail North,		Due Date Requested: 6/5/2022												
City: Earth City		TAT Requested (days):												
State, Zip: MO, 63045		PO #:												
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #:												
Email:		Project #: 18020186												
Project Name: Plant Watson Ash Pond Surfacewater		SSOW#:												
Site:														
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=biogas, A=air)	Analysis Requested							Special Instructions/Note:		
					Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9320_Ra228/PreSep_0 Radium 228	9315_Ra226/PreSep_21 Radium 226 and Radium 228	9315_Ra226/PreSep_21 Radium 226 and Radium 228	9320_Ra228/PreSep_0 Radium 228	9320_Ra228/PreSep_0 Radium 228		9320_Ra228/PreSep_0 Radium 228	9320_Ra228/PreSep_0 Radium 228
SW-3 (180-137407-10)	4/27/22	09:02 Eastern	Water	Water	X	X	X	X	X	X	X	X	2	
SW-3 (180-137407-11)	4/27/22	09:20 Eastern	Water	Water	X	X	X	X	X	X	X	X	2	
SW-3 (180-137407-12)	4/27/22	09:33 Eastern	Water	Water	X	X	X	X	X	X	X	X	2	
SW-4 (180-137407-13)	4/27/22	10:50 Eastern	Water	Water	X	X	X	X	X	X	X	X	2	
SW-4 (180-137407-14)	4/27/22	11:18 Eastern	Water	Water	X	X	X	X	X	X	X	X	2	
DUP-01 (180-137407-15)	4/27/22	09:50 Eastern	Water	Water	X	X	X	X	X	X	X	X	2	
DUP-01 (180-137407-16)	4/27/22	10:18 Eastern	Water	Water	X	X	X	X	X	X	X	X	2	
SW-5 (180-137407-17)	4/27/22	08:07 Eastern	Water	Water	X	X	X	X	X	X	X	X	2	
SW-5 (180-137407-18)	4/27/22	07:07 Eastern	Water	Water	X	X	X	X	X	X	X	X	2	
<p>Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon out 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>														
Possible Hazard Identification														
Unconfirmed														
Deliverable Requested: I, II, III, IV, Other (specify)														
Primary Deliverable Rank: 2														
Date: _____ Time: _____														
Empty Kit Relinquished by:														
Relinquished by: <i>[Signature]</i> Date/Time: 5-22-22 17:00														
Relinquished by: <i>[Signature]</i> Date/Time: _____														
Relinquished by: _____ Date/Time: _____														
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) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:														
Received by: <i>[Signature]</i> Date/Time: _____ Received by: <i>[Signature]</i> Date/Time: MAY 03 2022 09:20 Received by: _____ Date/Time: _____ Company: <i>[Signature]</i> Company: <i>[Signature]</i>														
Method of Shipment: _____ Date/Time: _____ Date/Time: _____ Date/Time: _____														

Eurofins Pittsburgh

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

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Lab PM		Carrier Tracking No(s)		COC No							
Client Contact Shipping/Receiving		Brown, Shali		State of Origin: Georgia		180-460631-3							
Company TestAmerica Laboratories, Inc.		E-Mail Shali.Brown@et.eurofins.com		Page Page 3 of 6		Job # 180-137407-2							
Address 13715 Rider Trail North,		Due Date Requested: 6/5/2022		Analysis Requested				Preservation Codes:					
City: Earth City		TAT Requested (days):						A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)			
State, Zip MO, 63045		PO #:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of Containers					
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #:		9315_Ra226/FIELD_FLTRD Radium 226 (Field)		9315_Ra226/PreSep_21 Radium 226		9315_Ra226/PreSep_0 Radium 226					
Email:		Project #: 18020186		9320_Ra228/FIELD_FLTRD Radium 228 (Field)		9320_Ra228/FIELD_FLTRD Radium 228 (Field)		9320_Ra228/FIELD_FLTRD Local					
Plant Watson Ash Pond Surfacewater		SSOW#:		9326Ra228_GFPc/ Combined Radium-226 and		9326Ra228_GFPc/ Combined Radium-226 and		RA226_228GFPc_D/FIELD_FLTRD					
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Seawater, O-wastewater, BT-Tissue, AAAT)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226/PreSep_21 Radium 226	9320_Ra228/FIELD_FLTRD Radium 228 (Field)	9320_Ra228/FIELD_FLTRD Radium 228 (Field)	RA226_228GFPc_D/FIELD_FLTRD	Method
SW-5 (180-137407-19)	4/27/22	08:35 Eastern	Water			X	X	X					
SW-5 (180-137407-20)	4/27/22	07:35 Eastern	Water			X	X	X					
SW-6 (180-137407-21)	4/27/22	09:19 Eastern	Water			X	X	X					
SW-6 (180-137407-22)	4/27/22	09:30 Eastern	Water			X	X	X					
SW-6 (180-137407-23)	4/27/22	09:45 Eastern	Water			X	X	X					
SW-6 (180-137407-24)	4/27/22	09:52 Eastern	Water			X	X	X					
SW-9 (180-137407-25)	4/27/22	12:21 Eastern	Water			X	X	X					
SW-9 (180-137407-26)	4/27/22	12:29 Eastern	Water			X	X	X					
SW-9 (180-137407-27)	4/27/22	12:42 Eastern	Water			X	X	X					

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
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____
 Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: *Shali* Date/Time: 5-2-22 17:00
 Relinquished by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Custody Seals Intact
 Δ Yes Δ No
 Custody Seal No. _____
 Cooler Temperature(s) °C and Other Remarks

Received by: *Suma Worthington* Date/Time: MAY 03 2022 09:00
 Received by: _____ Date/Time: _____
 Received by: _____ Date/Time: _____
 Method of Shipment: _____
 Company: *FEDEX*
 Company: *FEDEX*
 Company: *EPASTI*



Eurofins Pittsburgh

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

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Lab PM: Brown, Shali	Carrier Tracking No(s):	GOC No: 180-460531.4										
Client Contact: Shali Brown		E-Mail: Shali.Brown@et.eurofins.com	State of Origin: Georgia	Page: Page 4 of 6										
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): 180-137407-2												
Address: 13715 Rider Trail North,		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:												
City: Earth City		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)												
State, Zip: MO, 63045														
Phone: 314-298-8566(Tel) 314-298-8757(Fax)														
Email:														
Project Name: Plant Watson Ash Pond Surfacewater														
Site: 18020186														
Due Date Requested: 6/5/2022														
TAT Requested (days):														
PO #:														
WO #:														
Project #:														
SSOW#:														
Sample Identification - Client ID (Lab ID)		Analysis Requested												
Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=issue, AA=)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9320_Ra228/PreSep_0 Radium 228	9315_Ra226/PreSep_21 Radium 226	Ra226Ra228_GFP/ Combined Radium 226 and Radium 228	9315_Ra226/FIELD_FLTRD Radium 226 (Field Filtered)	9320_Ra228/FIELD_FLTRD Radium 228 (Field Filtered)	RA226_228GFP/ D/FIELD_FLTRD (MOD) Local Method	Total Number of Containers	Special Instructions/Note:
SW-9 (180-137407-28)	4/27/22	12:52 Eastern		Water	X	X	X	X	X	X	X	X	2	
SW-10 (180-137407-29)	4/27/22	11:31 Eastern		Water	X	X	X	X	X	X	X	X	2	
SW-10 (180-137407-30)	4/27/22	11:45 Eastern		Water	X	X	X	X	X	X	X	X	2	
DUP-02 (180-137407-31)	4/27/22	10:31 Eastern		Water	X	X	X	X	X	X	X	X	2	
DUP-02 (180-137407-32)	4/27/22	10:45 Eastern		Water	X	X	X	X	X	X	X	X	2	
SW-11 (180-137407-33)	4/27/22	10:58 Eastern		Water	X	X	X	X	X	X	X	X	2	
SW-11 (180-137407-34)	4/27/22	11:06 Eastern		Water	X	X	X	X	X	X	X	X	2	
SW-12 (180-137407-35)	4/27/22	10:30 Eastern		Water	X	X	X	X	X	X	X	X	2	
SW-12 (180-137407-36)	4/27/22	10:39 Eastern		Water	X	X	X	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/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: _____ Date: _____ Time: _____ Method of Shipment: _____														
Relinquished by: <i>Me</i> Date: 5-2-22 17:00 Company: <i>etusa</i>														
Relinquished by: _____ Date: _____ Company: _____ Received by: <i>Jenna Worthington</i> Date/Time: MAY 03 2022 09:20 Company: <i>EMSR</i>														
Relinquished by: _____ Date: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____														
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks:														



Eurofins Pittsburgh

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

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Lab PM: Brown, Shali	Carrier Tracking No(s): 180-460531-5
Client Contact: Shipping/Receiving		E-Mail: Shali.Brown@et.eurofins.com	Page: Page 5 of 6
Company: TesAmerica Laboratories, Inc.		State of Origin: Georgia	Job #: 180-137407-2
Address: 13715 Rider Trail North,		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
City: Earth City	State, Zip: MO, 63045	M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SSO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PC #:		
Email:	WO #:		
Project Name: Plant Watson Ash Pond Surfacewater	Project #: 18020186		
Site:	SSOW#:		
Due Date Requested: 6/5/2022		Analysis Requested	
TAT Requested (days):		Total Number of Containers	
Sample Date		Method	
Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/oil, BT=Trace, AA=)	Field Filtered Sample (Yes or No)
Sample Date	Sample Time	Preservation Code:	Perform MS/MSD (Yes or No)
SW-13 (180-137407-37)	4/27/22 12:21 Eastern	Water	X
SW-13 (180-137407-38)	4/27/22 12:33 Eastern	Water	X
SW-14 (180-137407-39)	4/27/22 12:55 Eastern	Water	X
SW-14 (180-137407-40)	4/27/22 13:16 Eastern	Water	X
SW-15 (180-137407-41)	4/27/22 13:43 Eastern	Water	X
SW-15 (180-137407-42)	4/27/22 14:04 Eastern	Water	X
DUP-03 (180-137407-43)	4/27/22 12:43 Eastern	Water	X
DUP-03 (180-137407-44)	4/27/22 13:04 Eastern	Water	X
SW-16 (180-137407-45)	4/27/22 18:49 Eastern	Water	X
<p>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.</p>			
Possible Hazard Identification			
Unconfirmed			
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	
Primary Deliverable Rank: 2		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months	
Empty Kit Relinquished by:			
Relinquished by:		Date:	
Relinquished by:		Date:	
Relinquished by:		Date:	
Relinquished by:		Date:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:	
Custody Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:	



Ver: 06/08/2021

Eurofins Pittsburgh

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

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Lab PM: Brown, Shali	Carrier Tracking Note(s)	GOC No: 180-4605316
Client Contact: Shipping/Receiving		E-Mail: Shali.Brown@et.eurofins.com	State of Origin: Georgia	Page: Page 6 of 6
Company: TestAmerica Laboratories, Inc.		Job #: 180-137407-2		
Address: 13715 Rider Trail North,		Preservation Codes:		
City: Earth City	State, Zip: MO, 63045	A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 F - MeOH R - Na2SO3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water K - EDTA L - EDA V - MCAA W - pH 4-5 Z - other (specify)		
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:	Analysis Requested		
Email:	WO #:	Total Number of containers		
Project Name: Plant Watson Ash Pond Surfacewater	Project #: 18020186	930_Ra228/PreSep_0 Radium 228		
Site:	SSOW#:	9315_Ra226/PreSep_21 Radium 226		
Sample Identification - Client ID (Lab ID)		9326Ra228_GFP/ Combined Radium 226 and		
Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water, etc.)	Field Filtered Sample (Yes or No)
4/27/22	19:02 Eastern	Water	Water	9320_Ra228/FIELD_FLTRD Radium 228 (Field)
4/27/22	10:06 Eastern	Water	Water	9315_Ra226/FIELD_FLTRD Radium 226 (Field)
4/27/22	10:23 Eastern	Water	Water	9320_Ra228/FIELD_FLTRD Radium 228 (Field)
4/27/22	07:58 Eastern	Water	Water	RA226, 228GFP, D/FIELD_FLTRD Local Method
4/27/22	16:17 Eastern	Water	Water	
4/27/22	08:06 Eastern	Water	Water	
4/27/22	16:11 Eastern	Water	Water	
4/27/22	16:11 Eastern	Water	Water	
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/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: _____ Date: _____				
Relinquished by: <i>MO</i> Date: 5-2-22 17:00				
Relinquished by: _____ Date/Time: _____				
Relinquished by: _____ Date/Time: _____				
Custody Seals Intact: _____ Custody Seal No.: _____				
Cooler Temperature(s) °C and Other Remarks				
Received by: <i>Sana Weddington</i> Date/Time: <i>MAY 03 2022 09:20</i> Company: <i>EMSL</i>				
Received by: _____ Date/Time: _____ Company: _____				
Special Instructions/QC Requirements: _____				
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Method of Shipment: _____				

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-137407-2

Login Number: 137407

List Number: 1

Creator: Abernathy, Eric L

List Source: Eurofins Pittsburgh

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: 180-137407-2

Login Number: 137407

List Number: 2

Creator: Booker, Autumn R

List Source: Eurofins St. Louis

List Creation: 05/03/22 02:44 PM

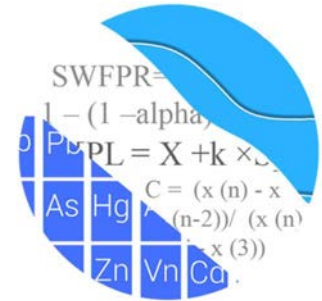
Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
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	



Appendix B

1st
Semi-Annual
Monitoring Event

GROUNDWATER STATS CONSULTING



February 22, 2022

Southern Company Services
Attn: Mr. Trey Singleton
3535 Colonnade Parkway
Birmingham, AL 35243

Re: Plant Watson Ash Pond
Statistical Analysis – October 2021

Dear Mr. Singleton,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of data for the October 2021 sample event for Mississippi Power Company's Plant Watson Ash Pond. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals (CCR) from Electric Utilities (CCR Rule, 2015) and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Data were sent electronically and the analysis was reviewed by Andrew Collins, Project Manager for Groundwater Stats Consulting.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** APMW-11, APMW-12, APMW-13, APMW-14, APMW-15, and APMW-16
- **Downgradient wells:** APMW-1R, APMW-2, APMW-3, APMW-4, APMW-5, APMW-6R, APMW-7, APMW-8, APMW-9, and APMW-10
- **Delineation wells:** APMW-2D, APMW-3D, APMW-4D, APMW-5D, APMW-6D, APMW-8D, and APMW-10D

Sampling began for the CCR program in April 2018 for wells listed above except for new background wells APMW-11 and APMW-12, and downgradient well APMW-1R (a

replacement well for well APMW-1), which were first sampled in March 2019, as well as new upgradient wells APMW-13, APMW-14, APMW-15, and APMW-16, which were first sampled in July 2020. All data from upgradient wells are incorporated into the interwell statistical limits. Additionally, sampling began in April 2019 for downgradient well APMW-6R (a replacement well for APMW-6). Sampling at the delineation wells listed above began in July 2020. Data from these wells will be statistically analyzed for the Appendix IV constituents when a minimum of 8 samples are available.

The CCR program consists of the following constituents:

- **Appendix III** (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) – antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Time series plots and box plots are included for all constituents at all wells (Figures A and B, respectively). 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.

Summary of Background Screening – Conducted in April 2019

Data at upgradient and downgradient wells were evaluated in during the background screening conducted in April 2019 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. Interwell prediction limits were selected as the most appropriate statistical method to evaluate the Appendix III parameters at this site. Power curves were submitted at that time and demonstrated that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

During the background screening conducted in April 2019, Tukey’s box plot method was used to screen for outliers and the findings were submitted at that time. Background (upgradient) well data were re-assessed for potential outliers using time series plots during this analysis. The highest sulfate value in upgradient well APMW-13 was flagged as an outlier since remaining measurements in this well and neighboring upgradient wells are considerably lower. This step results in more conservative (i.e. lower) limits from a

regulatory perspective. When any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph and the accompanying data pages display the flagged value in a lighter font. A substitution of the most recent reporting limit was applied when varying detection limits existed in data.

Summary of Statistical Methods

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. The confidence levels associated with parametric prediction limits are based on an overall false positive rate of 5%. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized where the highest background value is used to establish the upper prediction limit (and lowest value in the case of pH). The associated confidence level is dependent on the number of available background, future comparisons, and resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (USEPA Unified Guidance, 2009), data are analyzed using either parametric or non-parametric prediction limits.

- No statistical analyses are required on wells and analytes containing 100% non-detects.
- When data contain <15% non-detects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Evaluation of Appendix III Parameters – October 2021

During this analysis, all upgradient well data were reviewed for any new outliers in existing and new wells using the time series graphs and as discussed earlier, the highest value of sulfate was flagged as an outlier in upgradient well APMW-13. A summary of flagged values also follows this letter (Figure C). It was noted that concentrations for boron, calcium, chloride, sulfate, and TDS in the new upgradient wells are similar across the new wells, but significantly higher than those observed in the existing upgradient. Further studies beyond the scope of this analysis would be needed to fully understand the

groundwater population upgradient of the ash pond, and the appropriateness of pooling all upgradient well data for construction of prediction limits. The assumption, however, is that pooling all upgradient well data results in statistical limits that are representative of the entire background population and will serve to balance the false positive risk (identifying a problem in a downgradient well when none exists) with the false negative risk (not identifying impacts when they exist in a downgradient well).

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed for all Appendix III constituents--boron, calcium, chloride, fluoride, pH, sulfate and TDS--using pooled upgradient well data to develop background limits. The October 2021 observation at each downgradient well is compared to its respective background limit during this analysis.

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 a resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no further action is necessary.

When the October 2021 samples from downgradient wells were evaluated using interwell prediction limits, several statistically significant increases were identified (Figure D). Summary tables of the prediction limit findings follow this letter.

Trend Tests

The Sen's Slope/Mann Kendall trend test was performed on wells/constituents with prediction limit exceedances (Figure E). Existing upgradient wells were included in this analysis for a general comparison of how the groundwater behaves upgradient of the facility relative to downgradient. The trend test requires a minimum of 5 samples; therefore, wells APMW-13, APMW-14, APMW-15, and APMW-16 were not included. A summary of these findings follows this letter. When the entire record of data was evaluated, the following statistically significant trends were identified:

Increasing:

- Boron: APMW-1R
- Calcium: APMW-1R

Decreasing:

- Calcium: APMW-4

Evaluation of Appendix IV Parameters – October 2021

For analysis of Appendix IV parameters, confidence intervals for each downgradient well/constituent were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Downgradient well/constituent pairs containing 100% non-detects do not require analysis. A list of those well/constituent pairs follows this report. Data from background (upgradient) wells for Appendix IV parameters are reassessed for outliers during each analysis. No new outliers were flagged and a summary of flagged outliers follows this report.

Interwell Upper Tolerance Limits

Parametric upper tolerance limits (UTLs) were used to calculate background limits, when data followed a normal distribution, from pooled upgradient well data for Appendix IV parameters with a target of 95% confidence and 95% coverage to determine the background limits (Figure F). When data did not follow a normal or transformed-normal distribution, nonparametric upper tolerance limits were constructed and the confidence and coverage levels are dependent upon the number of background samples.

Groundwater Protection Standards

UTLs were compared to the Maximum Contaminant Levels (MCLs) and CCR-Rule Specified Levels in the GWPS table following this letter to determine the highest limit for use as the Groundwater Protection Standard (GWPS) in the Confidence Interval comparisons (Figure G).

Confidence Intervals

Confidence intervals were then constructed on downgradient wells for each of the Appendix IV parameters using the highest limit of either the MCL, CCR-Rule Specified level, or background as discussed above (Figure H). Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its respective standard. Several exceedances were noted. A summary of the significant results follows this letter. Note that Southern Company Services, reportedly, submitted an Alternate Source Demonstration (ASD) for the barium and combined radium 226 + 228 confidence interval exceedances.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Watson Ash Pond. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Kristina L. Rayner
Groundwater Statistician



Andrew T. Collins
Project Manager

100% Non-Detects - Downgradient Wells

Analysis Run 2/22/2022 4:13 PM View: 100% Nondetects
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Antimony (mg/L)

APMW-10, APMW-1R, APMW-3, APMW-4, APMW-5, APMW-6R, APMW-7, APMW-8, APMW-9

Beryllium (mg/L)

APMW-4, APMW-5

Cadmium (mg/L)

APMW-2, APMW-3, APMW-4, APMW-5, APMW-7, APMW-8, APMW-9

Chromium (mg/L)

APMW-10, APMW-2, APMW-6R, APMW-9

Cobalt (mg/L)

APMW-2, APMW-8

Lead (mg/L)

APMW-1R, APMW-2

Mercury (mg/L)

APMW-2, APMW-3, APMW-4, APMW-6R

Molybdenum (mg/L)

APMW-1R

Selenium (mg/L)

APMW-1R, APMW-6R

Thallium (mg/L)

APMW-4, APMW-5, APMW-6R, APMW-7

Interwell Prediction Limit - Significant Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 12/8/2021, 3:07 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	TransformAlpha	Method
Boron (mg/L)	APMW-10	1.2	n/a	10/12/2021	1.9	Yes	42	n/a	n/a	21.43	n/a	n/a	0.001033 NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-1R	1.2	n/a	10/12/2021	7.2	Yes	42	n/a	n/a	21.43	n/a	n/a	0.001033 NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-2	1.2	n/a	10/12/2021	3.8	Yes	42	n/a	n/a	21.43	n/a	n/a	0.001033 NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-3	1.2	n/a	10/21/2021	5.1	Yes	42	n/a	n/a	21.43	n/a	n/a	0.001033 NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-5	1.2	n/a	10/12/2021	6.1	Yes	42	n/a	n/a	21.43	n/a	n/a	0.001033 NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-6R	1.2	n/a	10/20/2021	11	Yes	42	n/a	n/a	21.43	n/a	n/a	0.001033 NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-8	1.2	n/a	10/21/2021	22	Yes	42	n/a	n/a	21.43	n/a	n/a	0.001033 NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-9	1.2	n/a	10/12/2021	6.7	Yes	42	n/a	n/a	21.43	n/a	n/a	0.001033 NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-1R	130	n/a	10/12/2021	200	Yes	42	n/a	n/a	0	n/a	n/a	0.001033 NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-2	130	n/a	10/12/2021	360	Yes	42	n/a	n/a	0	n/a	n/a	0.001033 NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-3	130	n/a	10/21/2021	350	Yes	42	n/a	n/a	0	n/a	n/a	0.001033 NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-4	130	n/a	10/14/2021	150	Yes	42	n/a	n/a	0	n/a	n/a	0.001033 NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-5	130	n/a	10/12/2021	310	Yes	42	n/a	n/a	0	n/a	n/a	0.001033 NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-6R	130	n/a	10/20/2021	400	Yes	42	n/a	n/a	0	n/a	n/a	0.001033 NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-8	130	n/a	10/21/2021	495	Yes	42	n/a	n/a	0	n/a	n/a	0.001033 NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-9	130	n/a	10/12/2021	300	Yes	42	n/a	n/a	0	n/a	n/a	0.001033 NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-3	5400	n/a	10/21/2021	9400	Yes	42	n/a	n/a	0	n/a	n/a	0.001033 NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-5	5400	n/a	10/12/2021	8300	Yes	42	n/a	n/a	0	n/a	n/a	0.001033 NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-3	840	n/a	10/21/2021	1040	Yes	41	n/a	n/a	7.317	n/a	n/a	0.001071 NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-5	840	n/a	10/12/2021	900	Yes	41	n/a	n/a	7.317	n/a	n/a	0.001071 NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-3	9200	n/a	10/21/2021	18000	Yes	42	n/a	n/a	0	n/a	n/a	0.001033 NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-5	9200	n/a	10/12/2021	15000	Yes	42	n/a	n/a	0	n/a	n/a	0.001033 NP Inter (normality) 1 of 2

Interwell Prediction Limit - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 12/8/2021, 3:07 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)	APMW-10	1.2	n/a	10/12/2021	1.9	Yes	42	n/a	n/a	21.43	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-1R	1.2	n/a	10/12/2021	7.2	Yes	42	n/a	n/a	21.43	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-2	1.2	n/a	10/12/2021	3.8	Yes	42	n/a	n/a	21.43	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-3	1.2	n/a	10/21/2021	5.1	Yes	42	n/a	n/a	21.43	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-4	1.2	n/a	10/14/2021	1.2	No	42	n/a	n/a	21.43	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-5	1.2	n/a	10/12/2021	6.1	Yes	42	n/a	n/a	21.43	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-6R	1.2	n/a	10/20/2021	11	Yes	42	n/a	n/a	21.43	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-7	1.2	n/a	10/12/2021	1.2	No	42	n/a	n/a	21.43	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-8	1.2	n/a	10/21/2021	22	Yes	42	n/a	n/a	21.43	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-9	1.2	n/a	10/12/2021	6.7	Yes	42	n/a	n/a	21.43	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-10	130	n/a	10/12/2021	52	No	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-1R	130	n/a	10/12/2021	200	Yes	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-2	130	n/a	10/12/2021	360	Yes	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-3	130	n/a	10/21/2021	350	Yes	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-4	130	n/a	10/14/2021	150	Yes	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-5	130	n/a	10/12/2021	310	Yes	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-6R	130	n/a	10/20/2021	400	Yes	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-7	130	n/a	10/12/2021	84	No	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-8	130	n/a	10/21/2021	495	Yes	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-9	130	n/a	10/12/2021	300	Yes	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-10	5400	n/a	10/12/2021	860	No	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-1R	5400	n/a	10/12/2021	2300	No	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-2	5400	n/a	10/12/2021	2400	No	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-3	5400	n/a	10/21/2021	9400	Yes	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-4	5400	n/a	10/14/2021	2900	No	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-5	5400	n/a	10/12/2021	8300	Yes	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-6R	5400	n/a	10/20/2021	4050	No	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-7	5400	n/a	10/12/2021	3800	No	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-8	5400	n/a	10/21/2021	3550	No	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-9	5400	n/a	10/12/2021	3000	No	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-10	5	n/a	10/12/2021	0.66	No	44	n/a	n/a	25	n/a	n/a	0.0009571	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-1R	5	n/a	10/12/2021	0.27J	No	44	n/a	n/a	25	n/a	n/a	0.0009571	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-2	5	n/a	10/12/2021	0.22J	No	44	n/a	n/a	25	n/a	n/a	0.0009571	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-3	5	n/a	10/21/2021	5ND	No	44	n/a	n/a	25	n/a	n/a	0.0009571	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-4	5	n/a	10/14/2021	0.5J	No	44	n/a	n/a	25	n/a	n/a	0.0009571	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-5	5	n/a	10/12/2021	5ND	No	44	n/a	n/a	25	n/a	n/a	0.0009571	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-6R	5	n/a	10/20/2021	0.29J	No	44	n/a	n/a	25	n/a	n/a	0.0009571	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-7	5	n/a	10/12/2021	5ND	No	44	n/a	n/a	25	n/a	n/a	0.0009571	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-8	5	n/a	10/21/2021	1J	No	44	n/a	n/a	25	n/a	n/a	0.0009571	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-9	5	n/a	10/12/2021	5ND	No	44	n/a	n/a	25	n/a	n/a	0.0009571	NP Inter (normality) 1 of 2
pH (SU)	APMW-10	6.8	5.841	10/12/2021	6.75	No	43	6.32	0.2332	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-1R	6.8	5.841	10/12/2021	6.43	No	43	6.32	0.2332	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-2	6.8	5.841	10/12/2021	5.89	No	43	6.32	0.2332	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-3	6.8	5.841	10/21/2021	6.54	No	43	6.32	0.2332	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-4	6.8	5.841	10/14/2021	6.41	No	43	6.32	0.2332	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-5	6.8	5.841	10/12/2021	6.55	No	43	6.32	0.2332	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-6R	6.8	5.841	10/20/2021	5.94	No	43	6.32	0.2332	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-7	6.8	5.841	10/12/2021	6.51	No	43	6.32	0.2332	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-8	6.8	5.841	10/21/2021	6.74	No	43	6.32	0.2332	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-9	6.8	5.841	10/12/2021	6.16	No	43	6.32	0.2332	0	None	No	0.0003761	Param Inter 1 of 2

Interwell Prediction Limit - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 12/8/2021, 3:07 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	TransformAlpha	Method	
Sulfate (mg/L)	APMW-10	840	n/a	10/12/2021	4	No	41	n/a	n/a	7.317	n/a	n/a	0.001071	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-1R	840	n/a	10/12/2021	2.5ND	No	41	n/a	n/a	7.317	n/a	n/a	0.001071	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-2	840	n/a	10/12/2021	2.5ND	No	41	n/a	n/a	7.317	n/a	n/a	0.001071	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-3	840	n/a	10/21/2021	1040	Yes	41	n/a	n/a	7.317	n/a	n/a	0.001071	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-4	840	n/a	10/14/2021	290	No	41	n/a	n/a	7.317	n/a	n/a	0.001071	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-5	840	n/a	10/12/2021	900	Yes	41	n/a	n/a	7.317	n/a	n/a	0.001071	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-6R	840	n/a	10/20/2021	835	No	41	n/a	n/a	7.317	n/a	n/a	0.001071	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-7	840	n/a	10/12/2021	13	No	41	n/a	n/a	7.317	n/a	n/a	0.001071	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-8	840	n/a	10/21/2021	615	No	41	n/a	n/a	7.317	n/a	n/a	0.001071	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-9	840	n/a	10/12/2021	270	No	41	n/a	n/a	7.317	n/a	n/a	0.001071	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-10	9200	n/a	10/12/2021	2300	No	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-1R	9200	n/a	10/12/2021	4700	No	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-2	9200	n/a	10/12/2021	4400	No	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-3	9200	n/a	10/21/2021	18000	Yes	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-4	9200	n/a	10/14/2021	5700	No	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-5	9200	n/a	10/12/2021	15000	Yes	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-6R	9200	n/a	10/20/2021	7600	No	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-7	9200	n/a	10/12/2021	6900	No	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-8	9200	n/a	10/21/2021	6600	No	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-9	9200	n/a	10/12/2021	7000	No	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2

Trend Tests - Significant Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 12/8/2021, 3:13 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	APMW-1R	1.078	52	43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-1R	37.47	48	43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-4	-15.67	-67	-48	Yes	14	0	n/a	n/a	0.01	NP

Trend Tests - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 12/8/2021, 3:13 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	APMW-10	0	14	48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-11 (bg)	0.00527	23	43	No	13	46.15	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-12 (bg)	0.01748	43	43	No	13	23.08	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-1R	1.078	52	43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-2	-0.1906	-41	-48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-3	0	3	48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-5	-0.2101	-24	-48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-6R	0.9237	36	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-8	0	-12	-48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-9	0	-3	-48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-11 (bg)	-2.517	-41	-43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-12 (bg)	-0.4589	-30	-43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-1R	37.47	48	43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-2	0	5	48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-3	0	6	48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-4	-15.67	-67	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-5	-6.063	-23	-48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-6R	8.114	17	43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-8	-11.97	-25	-48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-9	-4.435	-23	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-11 (bg)	0.02072	7	43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-12 (bg)	0	11	43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-3	-380.6	-45	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-5	0	3	48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-11 (bg)	-0.1015	-10	-43	No	13	15.38	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-12 (bg)	-0.289	-24	-43	No	13	7.692	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-3	-36.54	-37	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-5	-9.669	-13	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-11 (bg)	-9.062	-22	-43	No	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-12 (bg)	-2.046	-9	-43	No	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-3	0	11	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-5	0	6	48	No	14	0	n/a	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 12/6/2021, 11:19 AM

<u>Constituent</u>	<u>Upper Lim.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	0.002	44	n/a	n/a	100	n/a	n/a	0.1047	NP Inter(NDs)
Arsenic (mg/L)	0.00496	44	n/a	n/a	38.64	n/a	n/a	0.1047	NP Inter(normality)
Barium (mg/L)	0.25	44	n/a	n/a	0	n/a	n/a	0.1047	NP Inter(normality)
Beryllium (mg/L)	0.0025	44	n/a	n/a	93.18	n/a	n/a	0.1047	NP Inter(NDs)
Cadmium (mg/L)	0.0025	44	n/a	n/a	97.73	n/a	n/a	0.1047	NP Inter(NDs)
Chromium (mg/L)	0.0044	40	n/a	n/a	90	n/a	n/a	0.1285	NP Inter(NDs)
Cobalt (mg/L)	0.0025	44	n/a	n/a	90.91	n/a	n/a	0.1047	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	5.172	44	1.01	0.3428	4.545	None	x^(1/3)	0.05	Inter
Fluoride (mg/L)	2	44	n/a	n/a	25	n/a	n/a	0.1047	NP Inter(normality)
Lead (mg/L)	0.001	44	n/a	n/a	97.73	n/a	n/a	0.1047	NP Inter(NDs)
Lithium (mg/L)	0.02574	44	0.09985	0.02886	9.091	None	sqrt(x)	0.05	Inter
Mercury (mg/L)	0.0002	40	n/a	n/a	95	n/a	n/a	0.1285	NP Inter(NDs)
Molybdenum (mg/L)	0.015	44	n/a	n/a	95.45	n/a	n/a	0.1047	NP Inter(NDs)
Selenium (mg/L)	0.005	44	n/a	n/a	100	n/a	n/a	0.1047	NP Inter(NDs)
Thallium (mg/L)	0.001	44	n/a	n/a	95.45	n/a	n/a	0.1047	NP Inter(NDs)

PLANT WATSON AP CCR GWPS TABLE				
Constituent Name	MCL	CCR Rule-Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.002	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.25	2
Beryllium, Total (mg/L)	0.004		0.0025	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005
Chromium, Total (mg/L)	0.1		0.0044	0.1
Cobalt, Total (mg/L)		0.006	0.0025	0.006
Combined Radium, Total (pCi/L)	5		5.17	5.17
Fluoride, Total (mg/L)	4		2	4
Lead, Total (mg/L)		0.015	0.001	0.015
Lithium, Total (mg/L)		0.04	0.026	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)		0.1	0.015	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*

**Grey cell indicates background limit is higher than CCR Rule Specified or MCL*

Confidence Intervals - Significant Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 2/22/2022, 3:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	APMW-10	0.1186	0.07528	0.01	Yes	14	0.09693	0.03056	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-3	0.08231	0.05977	0.01	Yes	14	0.07104	0.01591	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-4	0.01832	0.01639	0.01	Yes	14	0.01721	0.001762	0	None	x^4	0.01	Param.
Arsenic (mg/L)	APMW-5	0.2396	0.2132	0.01	Yes	14	0.2264	0.01865	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-6R	0.1755	0.1272	0.01	Yes	14	0.1514	0.03408	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-8	0.08251	0.04834	0.01	Yes	14	0.06543	0.02412	0	None	No	0.01	Param.
Barium (mg/L)	APMW-2	3.356	2.924	2	Yes	14	3.143	0.3131	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-1R	10.01	6.3	5	Yes	14	8.157	2.622	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-2	20.31	17.65	5	Yes	14	18.98	1.877	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-3	6.931	5.119	5	Yes	14	6.025	1.279	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-7	7.223	5.611	5	Yes	14	6.341	1.318	0	None	x^2	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-9	7.899	6.737	5	Yes	14	7.339	0.869	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	APMW-3	0.088	0.07	0.04	Yes	14	0.07818	0.01151	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-4	0.063	0.051	0.04	Yes	14	0.05786	0.009322	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-5	0.052	0.044	0.04	Yes	14	0.04943	0.009897	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-6R	0.05863	0.05258	0.04	Yes	14	0.05561	0.004271	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-8	0.099	0.0735	0.04	Yes	14	0.09154	0.02484	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	APMW-6R	0.4454	0.3704	0.1	Yes	14	0.4079	0.05294	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 2/22/2022, 3:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	APMW-2	0.002	0.0014	0.006	No	14	0.001957	0.0001604	92.86	None	No	0.01	NP (NDs)
Arsenic (mg/L)	APMW-10	0.1186	0.07528	0.01	Yes	14	0.09693	0.03056	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-1R	0.002038	0.0009104	0.01	No	14	0.001474	0.0007961	14.29	None	No	0.01	Param.
Arsenic (mg/L)	APMW-2	0.00077	0.00035	0.01	No	14	0.00059	0.0002263	71.43	None	No	0.01	NP (normality)
Arsenic (mg/L)	APMW-3	0.08231	0.05977	0.01	Yes	14	0.07104	0.01591	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-4	0.01832	0.01639	0.01	Yes	14	0.01721	0.001762	0	None	x^4	0.01	Param.
Arsenic (mg/L)	APMW-5	0.2396	0.2132	0.01	Yes	14	0.2264	0.01865	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-6R	0.1755	0.1272	0.01	Yes	14	0.1514	0.03408	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-7	0.001815	0.0006379	0.01	No	14	0.001291	0.0009155	0	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	APMW-8	0.08251	0.04834	0.01	Yes	14	0.06543	0.02412	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-9	0.001429	0.001128	0.01	No	14	0.001279	0.0002119	0	None	No	0.01	Param.
Barium (mg/L)	APMW-10	0.286	0.2326	2	No	14	0.2593	0.03772	0	None	No	0.01	Param.
Barium (mg/L)	APMW-1R	1.211	0.9456	2	No	14	1.083	0.1963	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	APMW-2	3.356	2.924	2	Yes	14	3.143	0.3131	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	APMW-3	0.11	0.097	2	No	14	0.1023	0.006568	0	None	No	0.01	NP (normality)
Barium (mg/L)	APMW-4	0.4827	0.3167	2	No	14	0.39	0.1251	0	None	x^2	0.01	Param.
Barium (mg/L)	APMW-5	0.1065	0.095	2	No	14	0.1009	0.008245	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	APMW-6R	0.06557	0.05372	2	No	14	0.05964	0.008363	0	None	No	0.01	Param.
Barium (mg/L)	APMW-7	0.8594	0.6192	2	No	14	0.7393	0.1696	0	None	No	0.01	Param.
Barium (mg/L)	APMW-8	0.23	0.2	2	No	14	0.2143	0.01158	0	None	No	0.01	NP (normality)
Barium (mg/L)	APMW-9	0.48	0.42	2	No	14	0.4464	0.0262	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	APMW-10	0.0025	0.00076	0.004	No	14	0.002228	0.0006948	85.71	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-1R	0.0025	0.00019	0.004	No	14	0.002335	0.0006174	92.86	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-2	0.0025	0.00061	0.004	No	14	0.002037	0.0009244	78.57	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-3	0.0025	0.00018	0.004	No	14	0.002334	0.00062	92.86	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-6R	0.0025	0.00036	0.004	No	14	0.002347	0.0005719	92.86	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-7	0.0025	0.00025	0.004	No	14	0.002339	0.0006013	92.86	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-8	0.0025	0.00038	0.004	No	14	0.002349	0.0005666	92.86	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-9	0.0025	0.00049	0.004	No	14	0.002195	0.0007768	85.71	None	No	0.01	NP (NDs)
Cadmium (mg/L)	APMW-10	0.0025	0.00025	0.005	No	14	0.002339	0.0006013	92.86	None	No	0.01	NP (NDs)
Cadmium (mg/L)	APMW-1R	0.0025	0.00045	0.005	No	14	0.002354	0.0005479	92.86	None	No	0.01	NP (NDs)
Cadmium (mg/L)	APMW-6R	0.0025	0.00026	0.005	No	14	0.002171	0.0008355	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	APMW-1R	0.0032	0.002	0.1	No	12	0.0021	0.0003464	91.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	APMW-3	0.002	0.0014	0.1	No	12	0.00195	0.0001732	91.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	APMW-4	0.00229	0.001427	0.1	No	12	0.002017	0.000484	33.33	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	APMW-5	0.0024	0.0013	0.1	No	12	0.001817	0.0003689	58.33	None	No	0.01	NP (normality)
Chromium (mg/L)	APMW-6R	0.002	0.002	0.1	No	12	0.002	0	100	None	No	0.01	NP (NDs)
Chromium (mg/L)	APMW-7	0.0022	0.0013	0.1	No	12	0.001733	0.0003312	41.67	None	No	0.01	NP (normality)
Chromium (mg/L)	APMW-8	0.0032	0.0014	0.1	No	12	0.00205	0.0004011	83.33	None	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-10	0.0025	0.00033	0.006	No	14	0.002002	0.0009904	78.57	None	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-1R	0.0025	0.00037	0.006	No	14	0.001284	0.001097	42.86	None	No	0.01	NP (normality)
Cobalt (mg/L)	APMW-3	0.003078	0.002336	0.006	No	14	0.002707	0.000524	0	None	No	0.01	Param.
Cobalt (mg/L)	APMW-4	0.003817	0.003254	0.006	No	14	0.003536	0.0003973	0	None	No	0.01	Param.
Cobalt (mg/L)	APMW-5	0.0025	0.000079	0.006	No	14	0.002154	0.0008799	85.71	None	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-6R	0.003601	0.001956	0.006	No	14	0.002779	0.001161	0	None	No	0.01	Param.
Cobalt (mg/L)	APMW-7	0.0025	0.00024	0.006	No	14	0.001387	0.001156	50	None	No	0.01	NP (normality)
Cobalt (mg/L)	APMW-9	0.0025	0.000089	0.006	No	14	0.002155	0.0008764	85.71	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	APMW-10	3.247	2.557	5	No	14	2.902	0.4868	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-1R	10.01	6.3	5	Yes	14	8.157	2.622	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-2	20.31	17.65	5	Yes	14	18.98	1.877	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-3	6.931	5.119	5	Yes	14	6.025	1.279	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-4	2.684	1.895	5	No	14	2.289	0.5566	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-5	4.548	3.681	5	No	14	4.114	0.6118	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-6R	3.332	2.717	5	No	14	2.899	0.8219	0	None	x^3	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-7	7.223	5.611	5	Yes	14	6.341	1.318	0	None	x^2	0.01	Param.

Confidence Intervals - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 2/22/2022, 3:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	APMW-8	3.997	3.311	5	No	14	3.654	0.4844	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-9	7.899	6.737	5	Yes	14	7.339	0.869	0	None	ln(x)	0.01	Param.
Fluoride (mg/L)	APMW-10	0.7709	0.5957	4	No	15	0.6833	0.1293	0	None	No	0.01	Param.
Fluoride (mg/L)	APMW-1R	5	0.16	4	No	14	2.937	2.472	57.14	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-2	5	0.06	4	No	14	1.156	2.084	21.43	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-3	5	0.37	4	No	15	1.716	2.056	26.67	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-4	0.58	0.5	4	No	15	1.107	1.582	13.33	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-5	5	0.09	4	No	14	2.546	2.547	50	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-6R	5	0.32	4	No	14	3.991	2.004	78.57	None	No	0.01	NP (NDs)
Fluoride (mg/L)	APMW-7	5	0.12	4	No	15	1.231	1.986	20	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-8	1.039	0.8465	4	No	15	0.9233	0.1792	0	None	x^3	0.01	Param.
Fluoride (mg/L)	APMW-9	5	0.06	4	No	14	1.845	2.441	35.71	None	No	0.01	NP (normality)
Lead (mg/L)	APMW-10	0.0011	0.0006	0.015	No	14	0.0009186	0.0002454	78.57	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-3	0.001	0.00048	0.015	No	14	0.0009629	0.000139	92.86	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-4	0.001	0.00062	0.015	No	14	0.0009729	0.0001016	92.86	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-5	0.0011	0.00041	0.015	No	14	0.0009193	0.0002281	78.57	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-6R	0.001	0.00032	0.015	No	14	0.0009514	0.0001817	92.86	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-7	0.0019	0.001	0.015	No	14	0.001064	0.0002405	92.86	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-8	0.0013	0.001	0.015	No	14	0.001064	0.0001737	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-9	0.001	0.00039	0.015	No	14	0.0008943	0.0002735	85.71	None	No	0.01	NP (NDs)
Lithium (mg/L)	APMW-10	0.01981	0.01034	0.04	No	14	0.0154	0.007601	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	APMW-1R	0.01337	0.01094	0.04	No	14	0.01175	0.002927	7.143	None	x^3	0.01	Param.
Lithium (mg/L)	APMW-2	0.02857	0.023	0.04	No	14	0.02579	0.003926	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-3	0.088	0.07	0.04	Yes	14	0.07818	0.01151	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-4	0.063	0.051	0.04	Yes	14	0.05786	0.009322	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-5	0.052	0.044	0.04	Yes	14	0.04943	0.009897	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-6R	0.05863	0.05258	0.04	Yes	14	0.05561	0.004271	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-7	0.004251	0.002365	0.04	No	13	0.003338	0.001417	23.08	Kaplan-Meier	sqrt(x)	0.01	Param.
Lithium (mg/L)	APMW-8	0.099	0.0735	0.04	Yes	14	0.09154	0.02484	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-9	0.004833	0.002991	0.04	No	13	0.003792	0.001472	23.08	Kaplan-Meier	sqrt(x)	0.01	Param.
Mercury (mg/L)	APMW-10	0.0002	0.000085	0.002	No	12	0.0001904	0.0000332	91.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-1R	0.0002	0.00015	0.002	No	12	0.0001958	0.00001443	91.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-5	0.0002	0.000093	0.002	No	12	0.0001911	0.00003089	91.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-6R	0.0002	0.0002	0.002	No	12	0.0002	0	100	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-7	0.0002	0.00009	0.002	No	12	0.0001908	0.00003175	91.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-8	0.0002	0.000077	0.002	No	12	0.0001897	0.00003551	91.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-9	0.00035	0.0002	0.002	No	12	0.0002125	0.0000433	91.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	APMW-10	0.1049	0.07471	0.1	No	14	0.08793	0.02453	0	None	x^2	0.01	Param.
Molybdenum (mg/L)	APMW-2	0.015	0.00079	0.1	No	14	0.01398	0.003798	92.86	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	APMW-3	0.07092	0.0613	0.1	No	14	0.06611	0.006789	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-4	0.01017	0.007284	0.1	No	14	0.008729	0.002039	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-5	0.1019	0.06595	0.1	No	14	0.08393	0.02538	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-6R	0.4454	0.3704	0.1	Yes	14	0.4079	0.05294	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-7	0.015	0.0047	0.1	No	14	0.01078	0.005228	57.14	None	No	0.01	NP (normality)
Molybdenum (mg/L)	APMW-8	0.1554	0.09757	0.1	No	14	0.1265	0.04084	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-9	0.015	0.00093	0.1	No	14	0.01299	0.005115	85.71	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-10	0.005	0.00061	0.05	No	14	0.004021	0.001945	78.57	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-2	0.005	0.00072	0.05	No	14	0.00405	0.001889	78.57	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-3	0.005	0.001	0.05	No	14	0.003155	0.001935	50	None	No	0.01	NP (normality)
Selenium (mg/L)	APMW-4	0.005	0.00068	0.05	No	14	0.004042	0.001904	78.57	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-5	0.005	0.00071	0.05	No	14	0.004065	0.001858	78.57	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-6R	0.005	0.005	0.05	No	14	0.005	0	100	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-7	0.005	0.00046	0.05	No	14	0.004015	0.001957	78.57	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-8	0.005	0.0006	0.05	No	14	0.004036	0.001915	78.57	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-9	0.005	0.00081	0.05	No	14	0.004035	0.001921	78.57	None	No	0.01	NP (NDs)

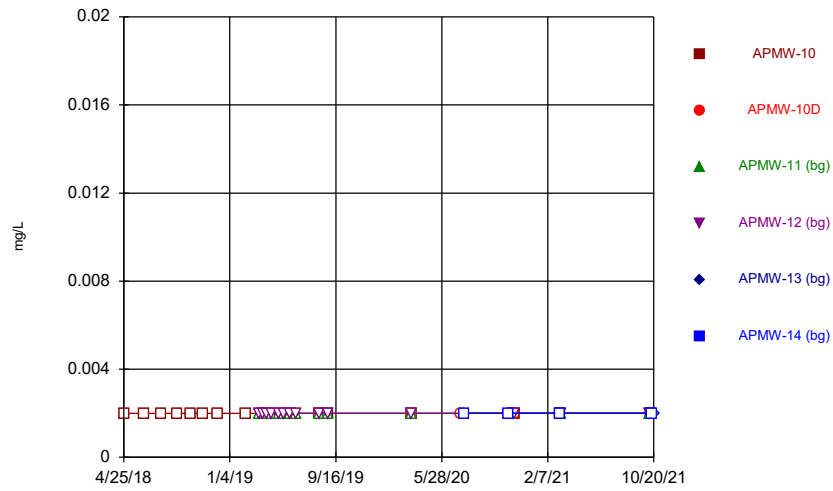
Confidence Intervals - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 2/22/2022, 3:23 PM

<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>
Thallium (mg/L)	APMW-10	0.001	0.00068	0.002	No	14	0.0008864	0.0002513	78.57	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-1R	0.001	0.00019	0.002	No	14	0.0009421	0.0002165	92.86	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-2	0.001	0.00084	0.002	No	14	0.0009886	0.0004276	92.86	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-3	0.001	0.00012	0.002	No	14	0.0009371	0.0002352	92.86	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-8	0.0013	0.00025	0.002	No	14	0.0009086	0.0003069	78.57	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-9	0.0016	0.00024	0.002	No	14	0.0009886	0.0002683	85.71	None	No	0.01	NP (NDs)

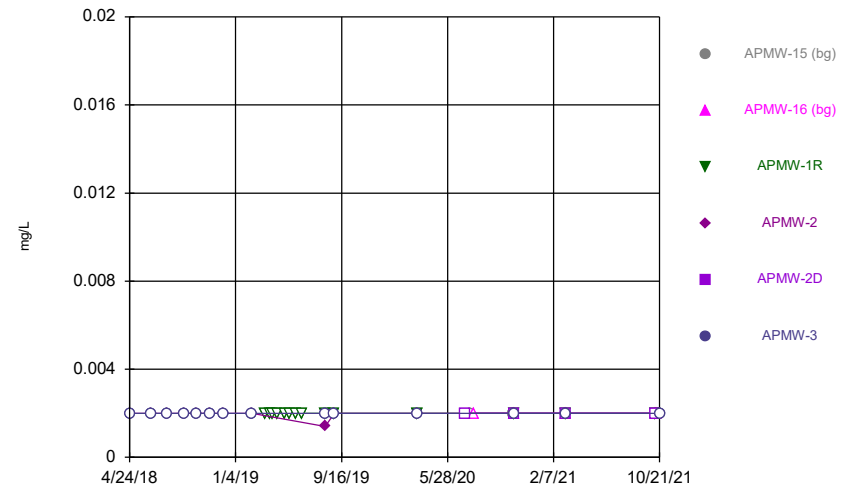
FIGURE A.

Time Series



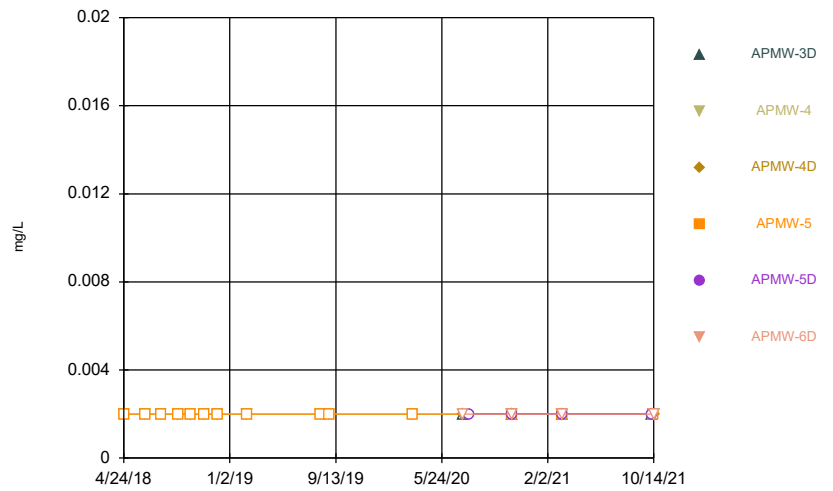
Constituent: Antimony Analysis Run 12/8/2021 3:21 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



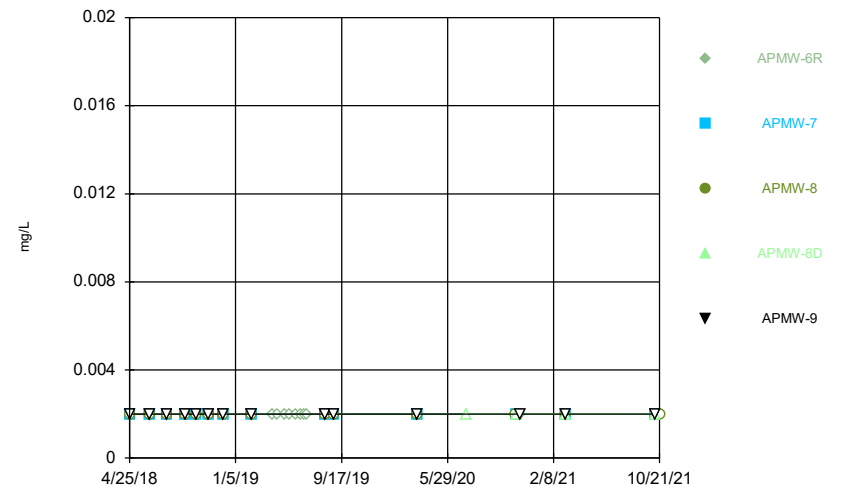
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



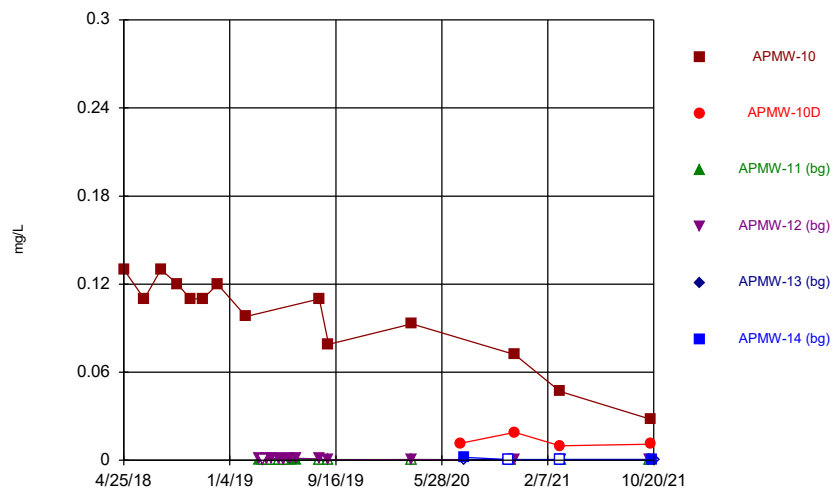
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



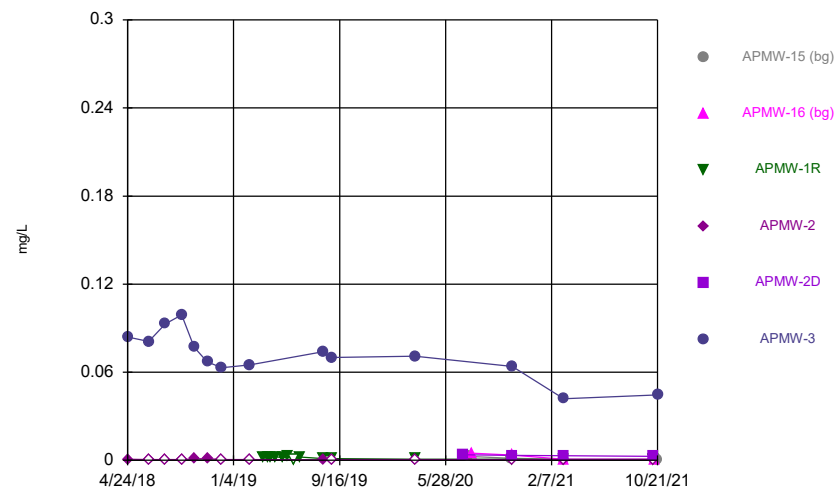
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



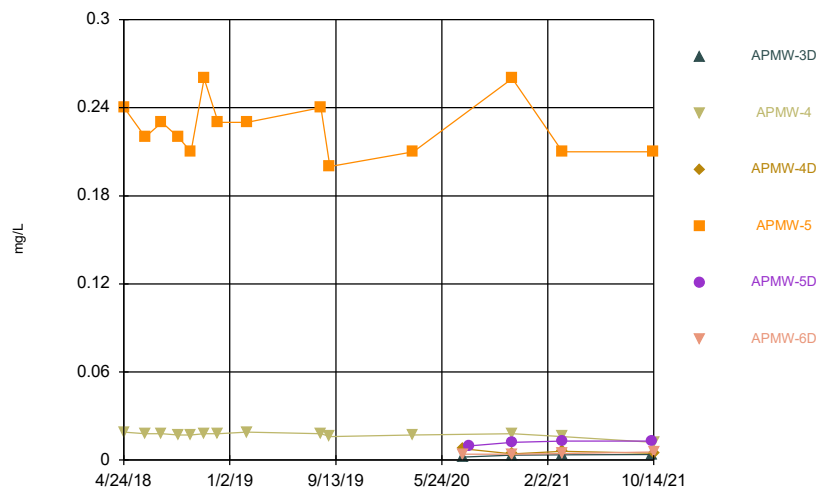
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



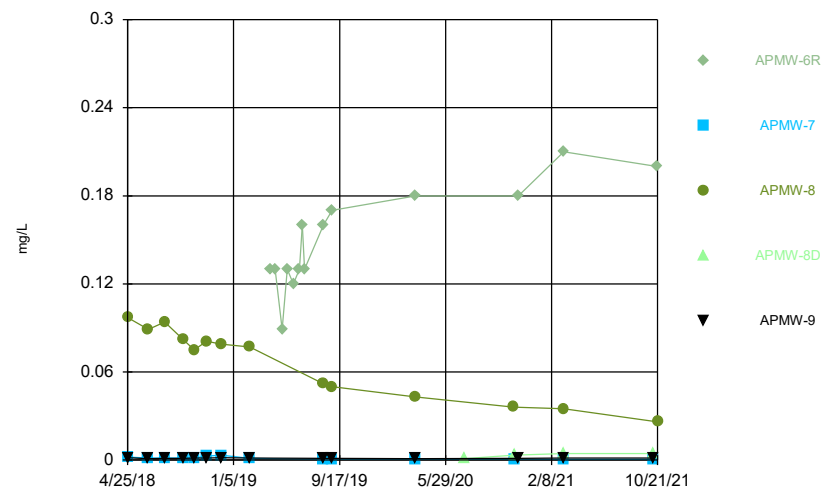
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



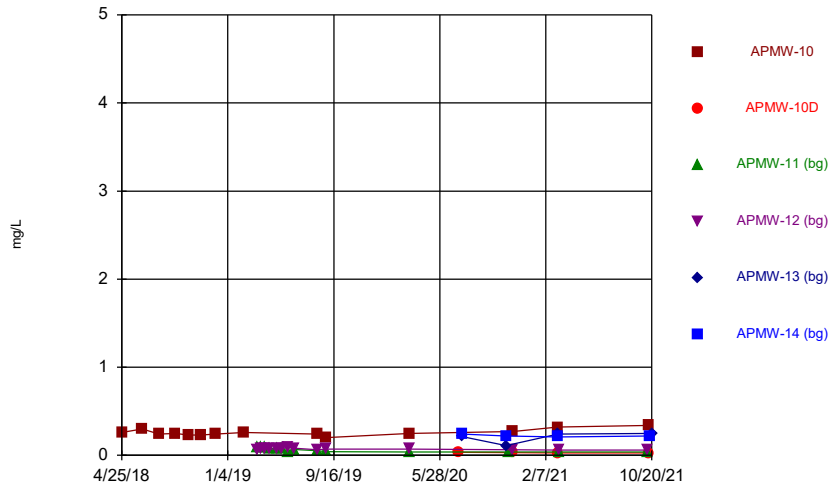
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



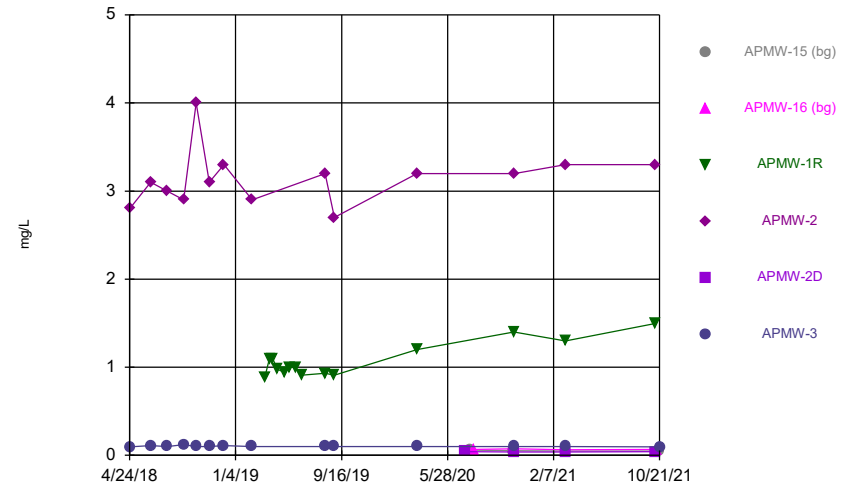
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



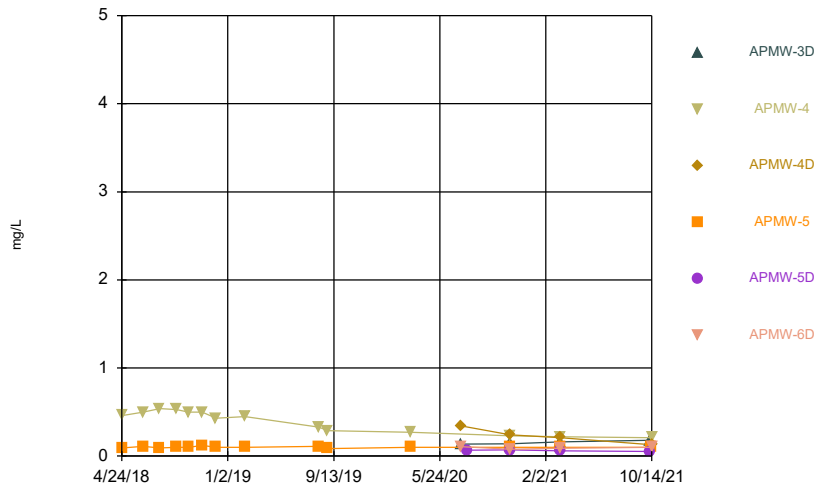
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



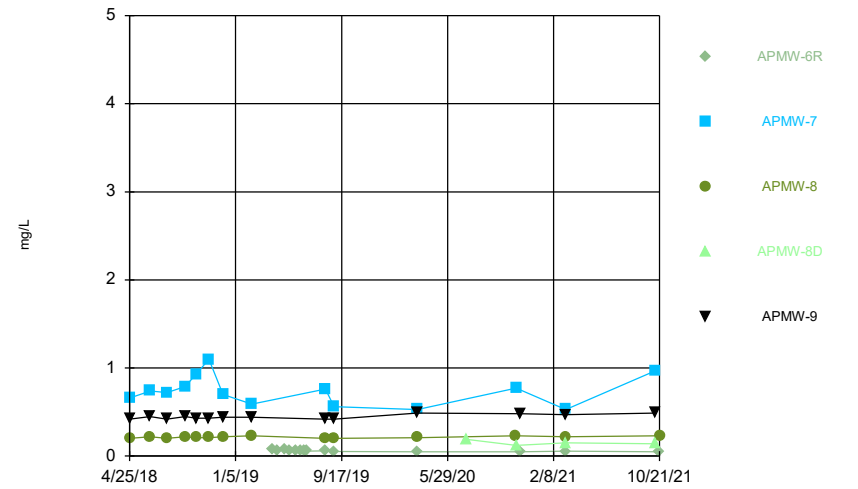
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



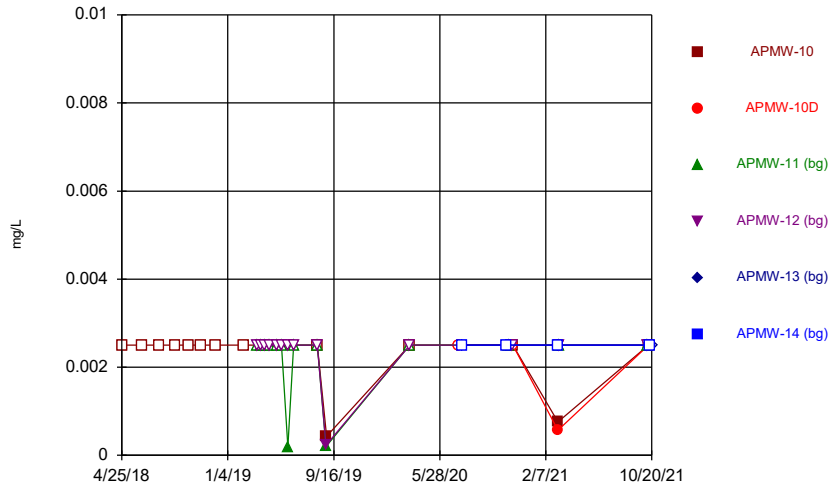
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



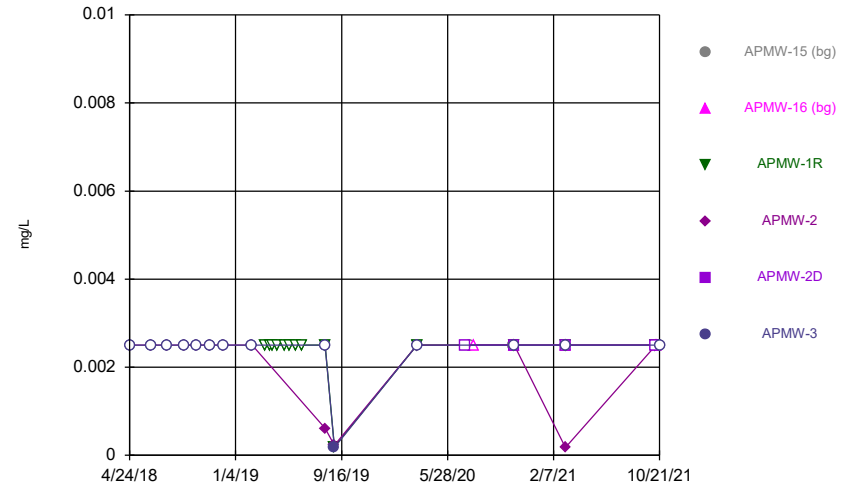
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



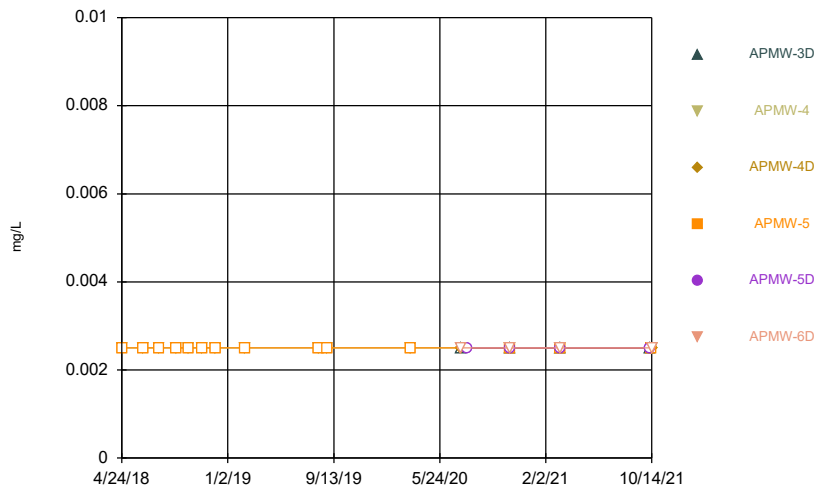
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



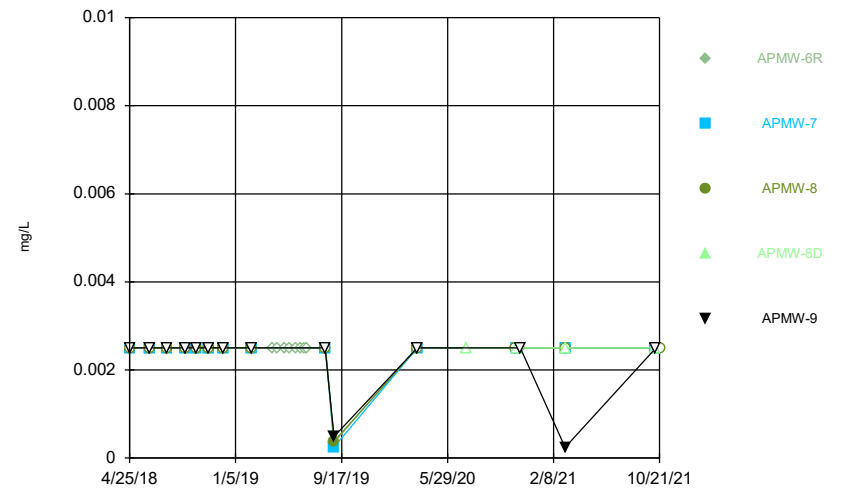
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



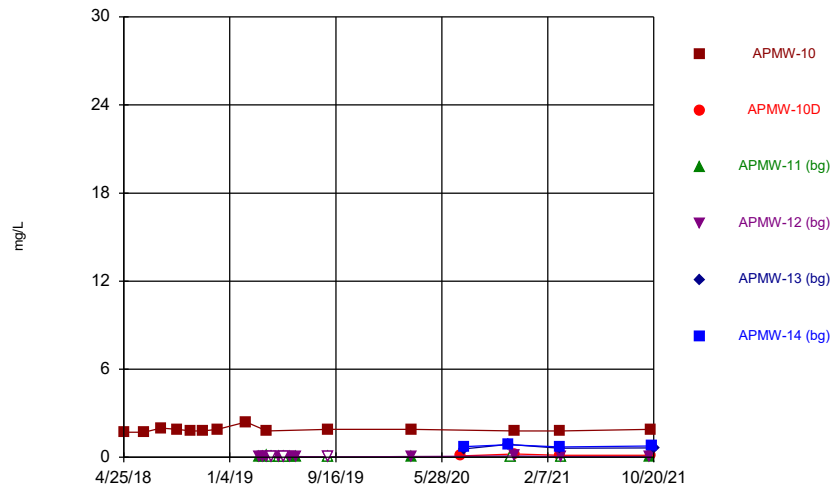
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



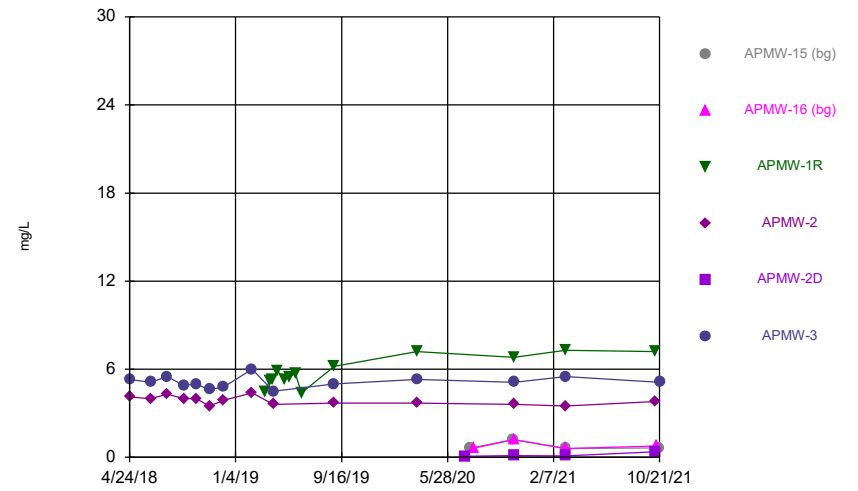
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



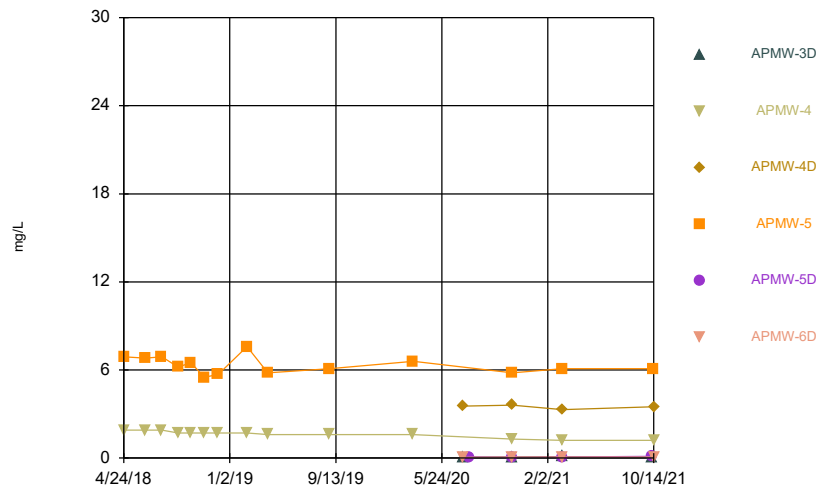
Constituent: Boron Analysis Run 12/8/2021 3:21 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



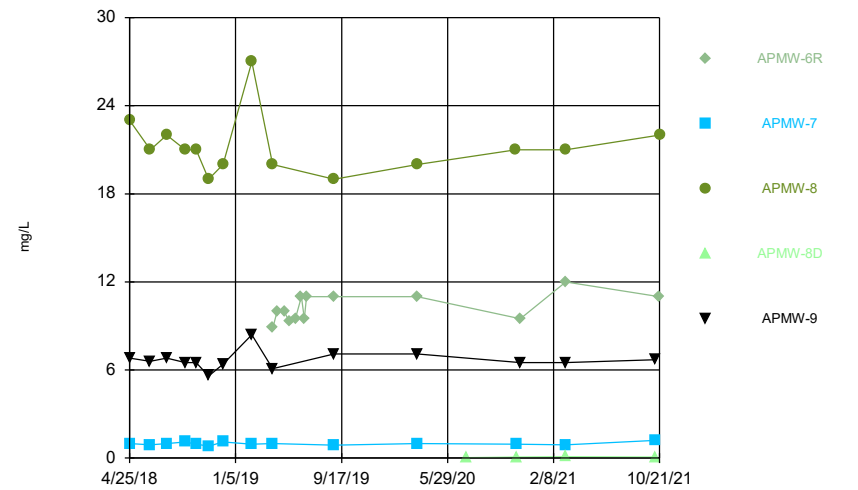
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



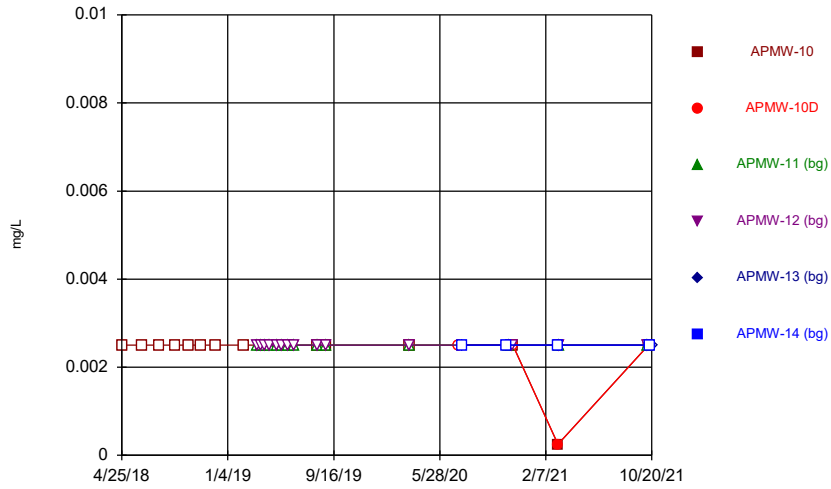
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



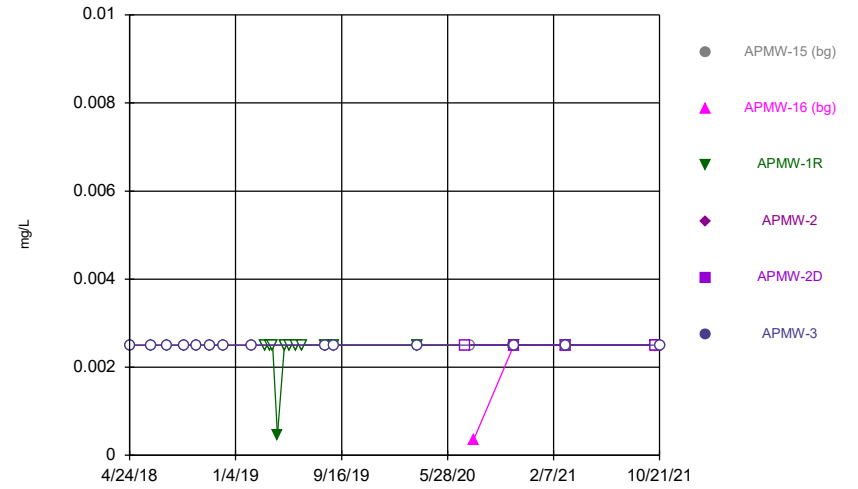
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



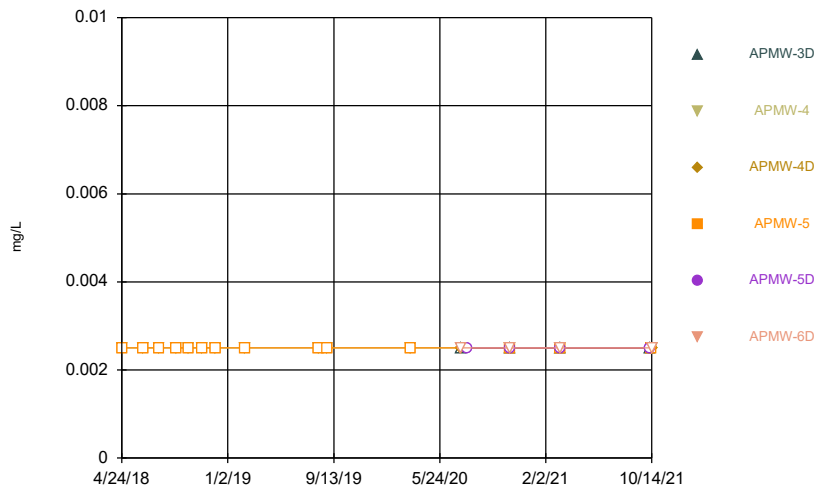
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



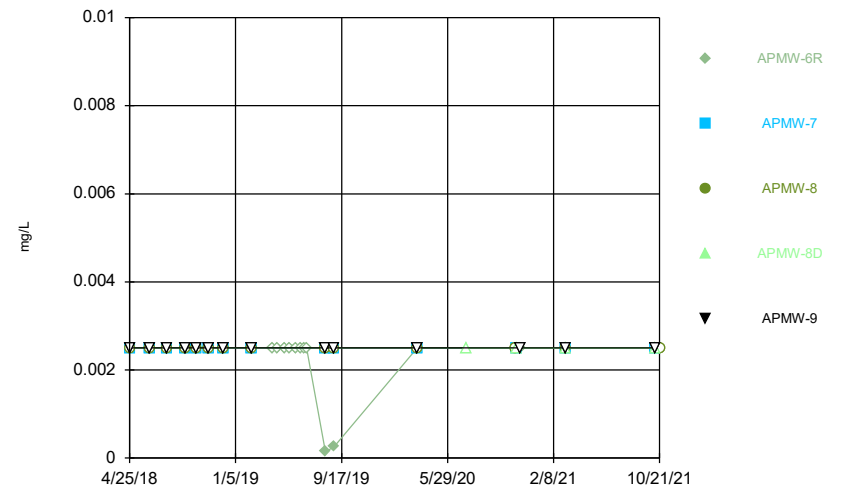
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



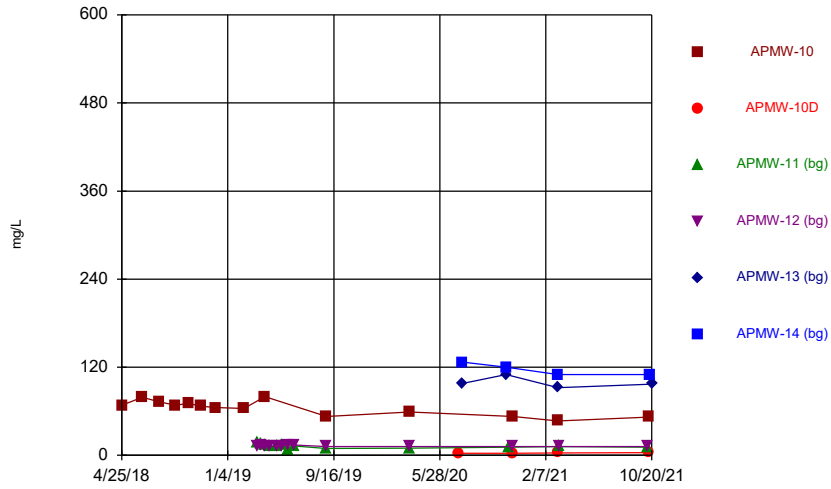
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



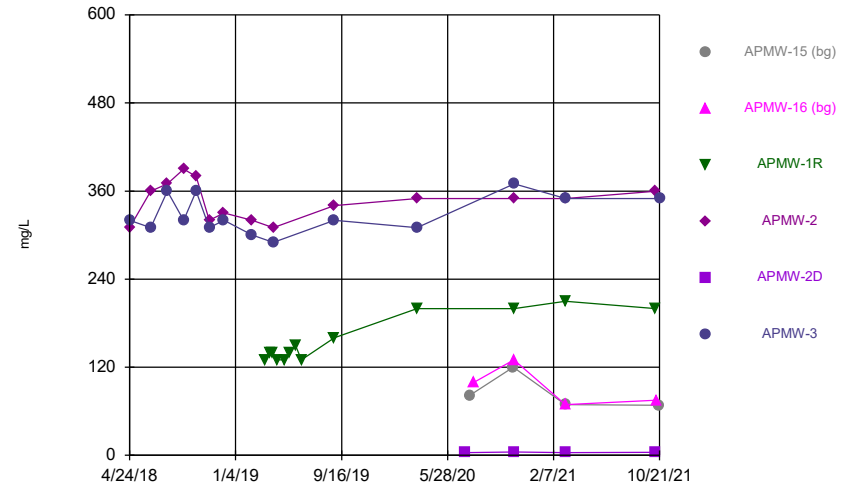
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



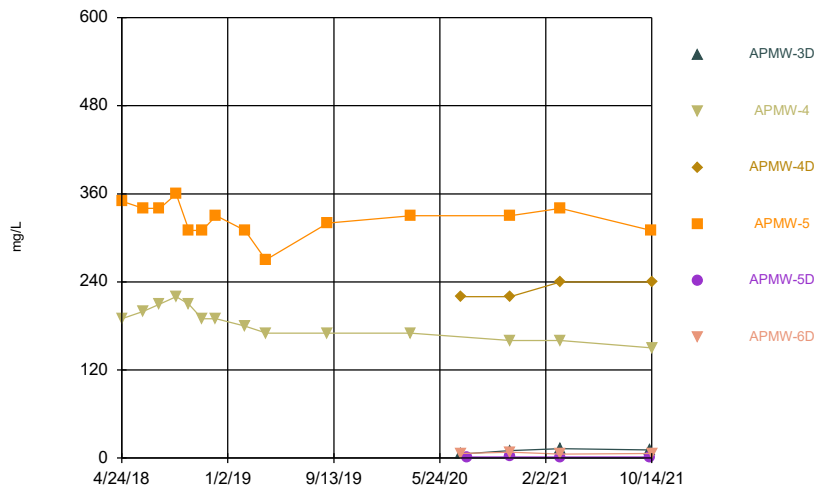
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



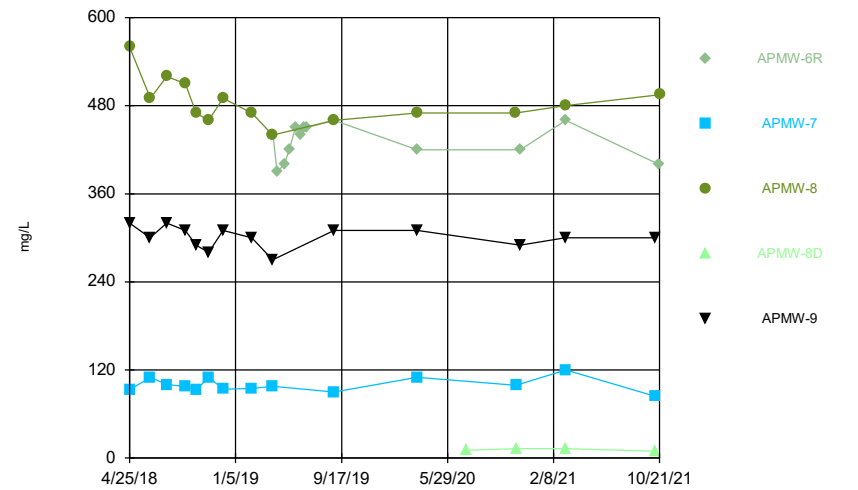
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



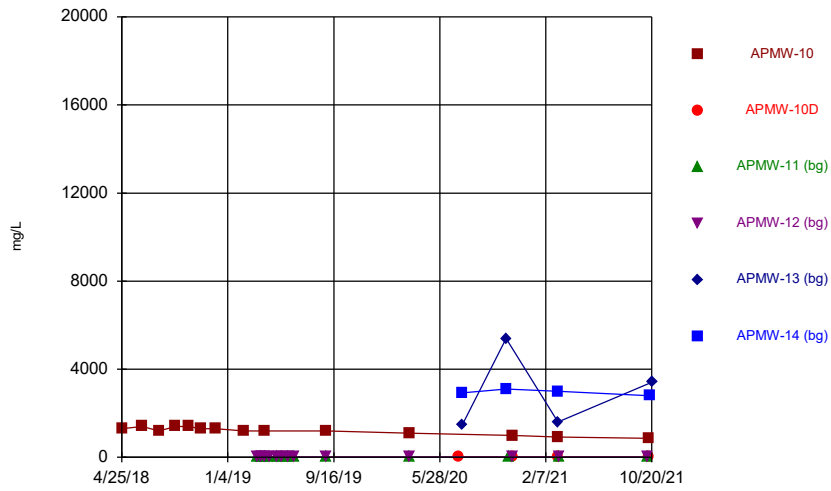
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



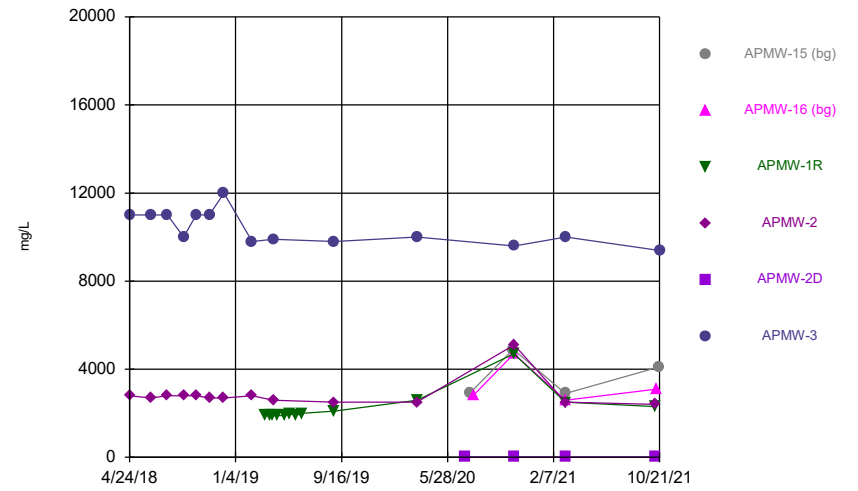
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



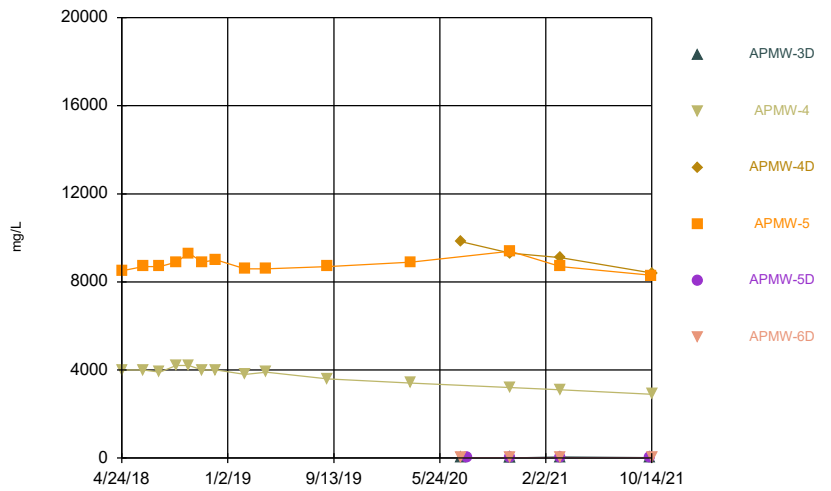
Constituent: Chloride Analysis Run 12/8/2021 3:21 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



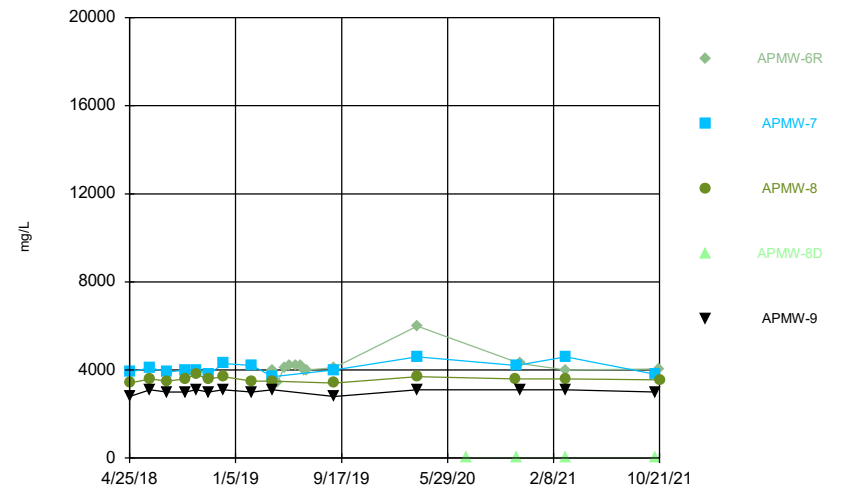
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



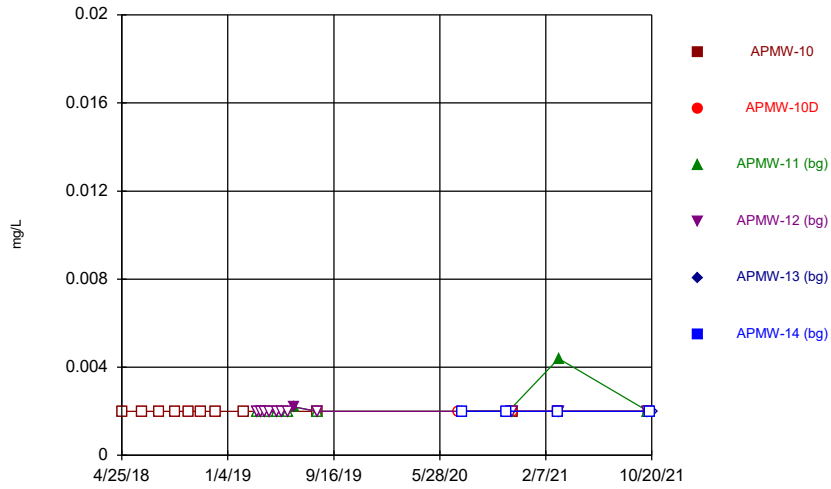
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



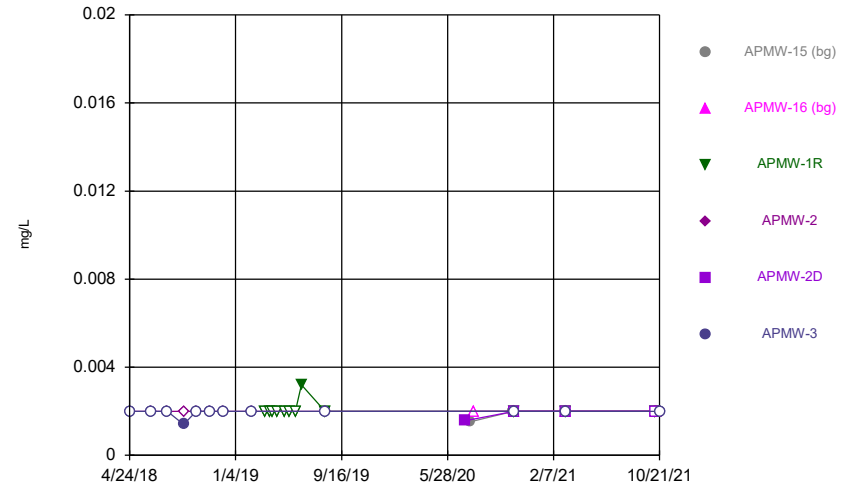
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



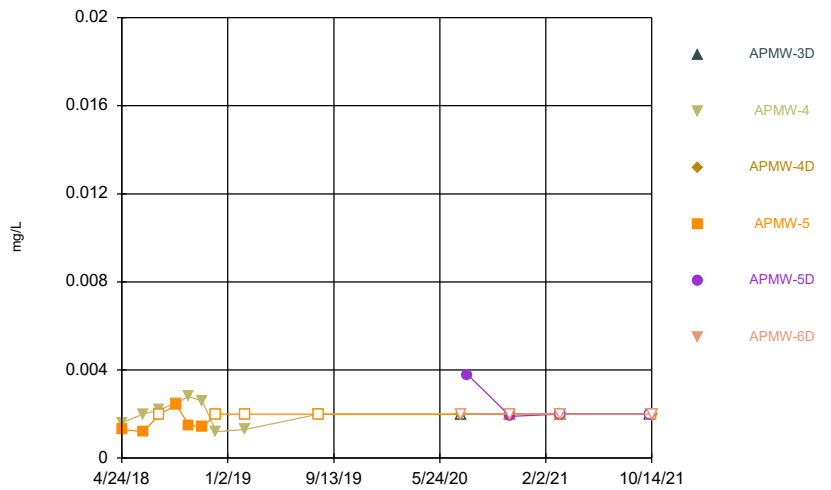
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



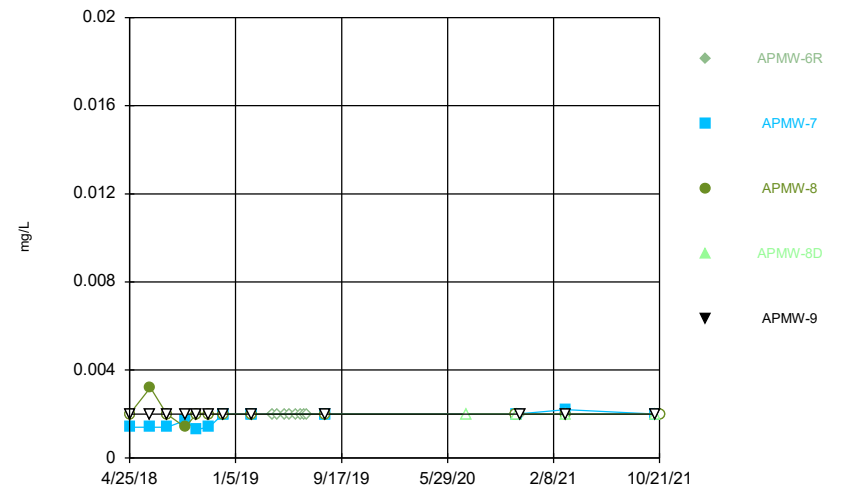
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



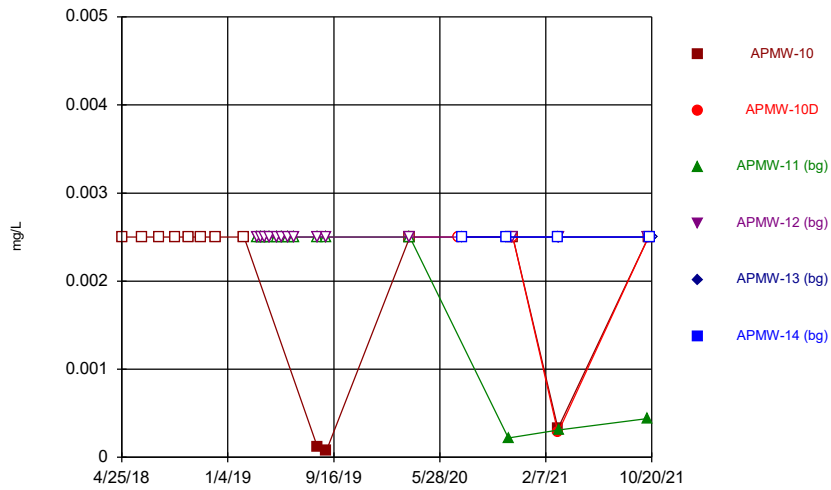
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



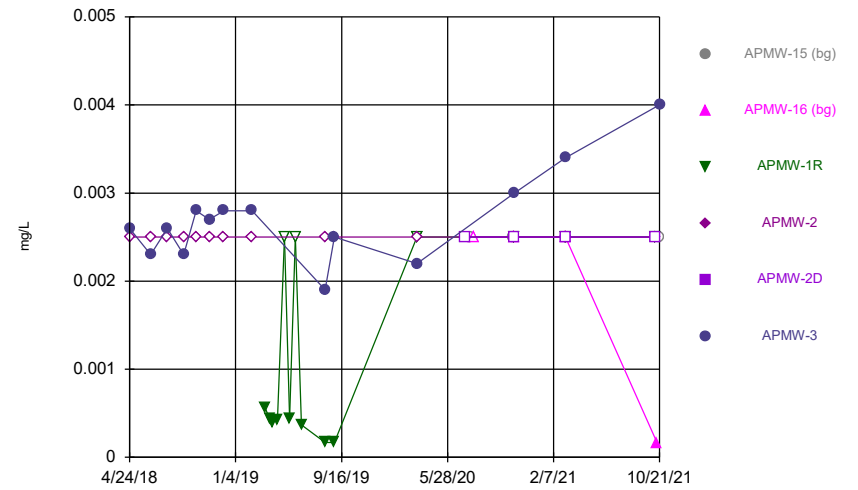
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



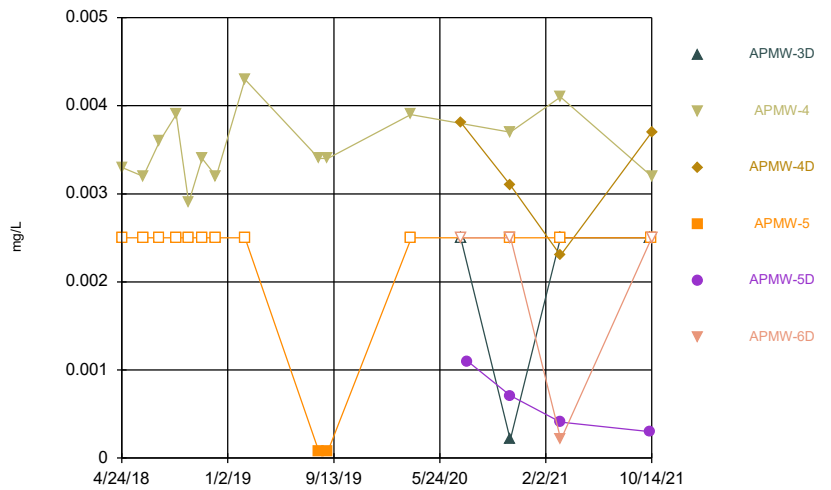
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



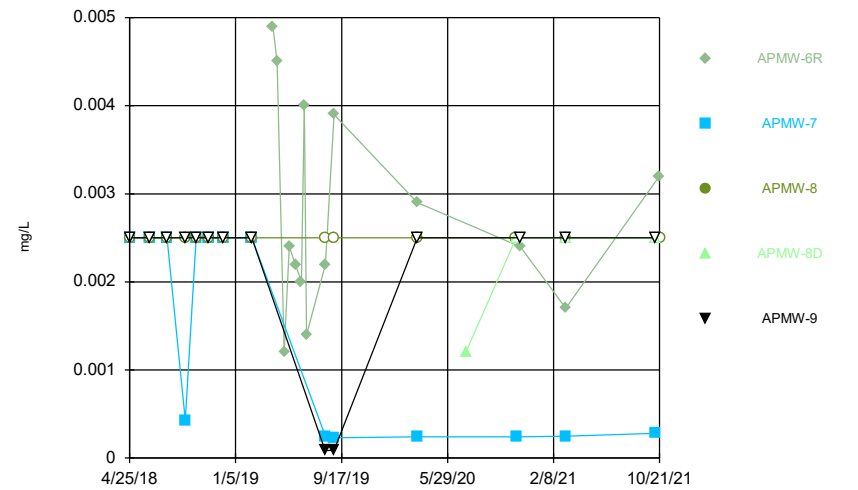
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



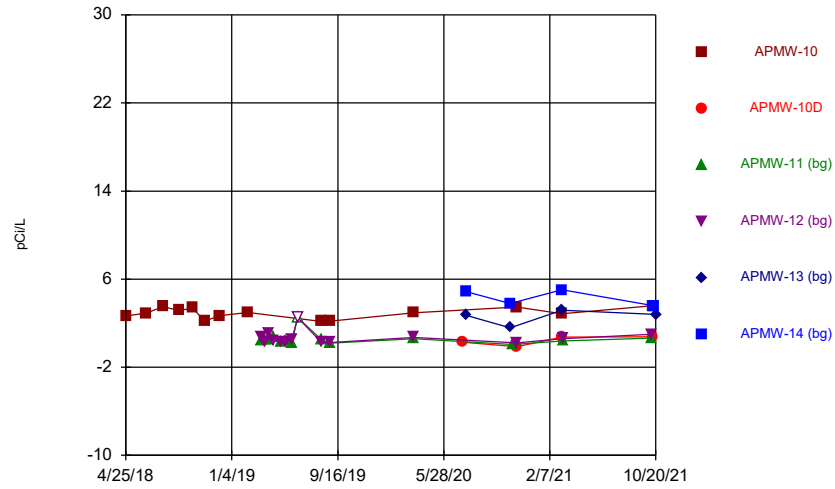
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



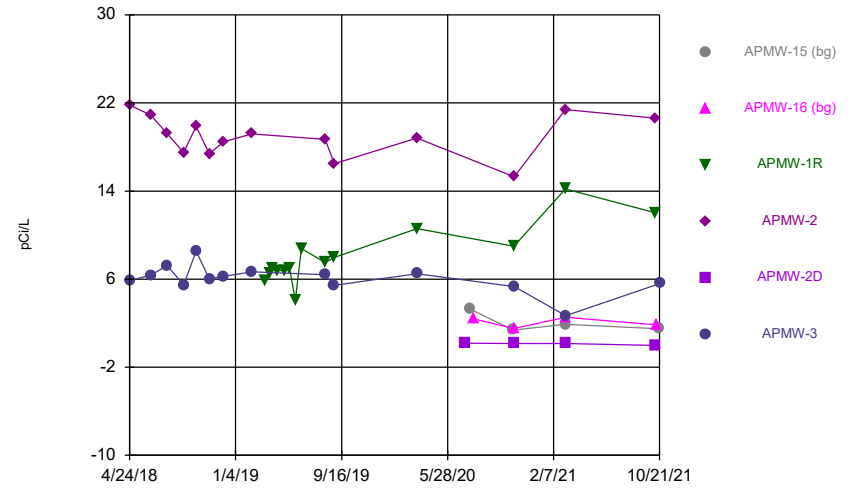
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



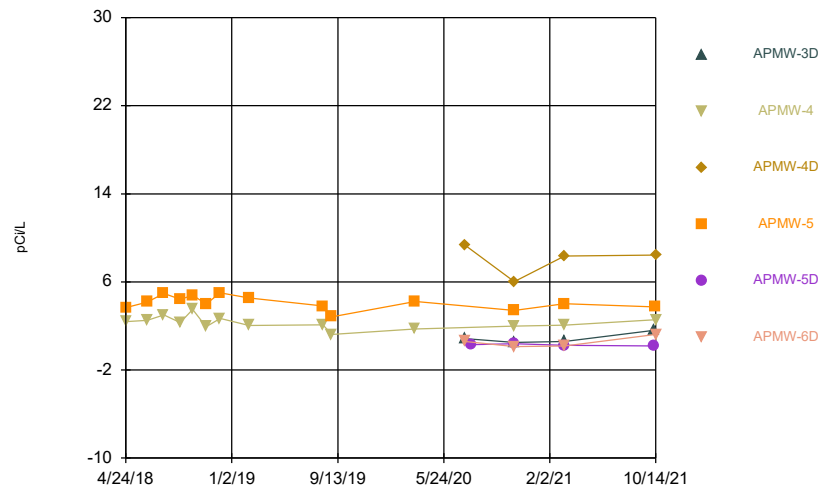
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



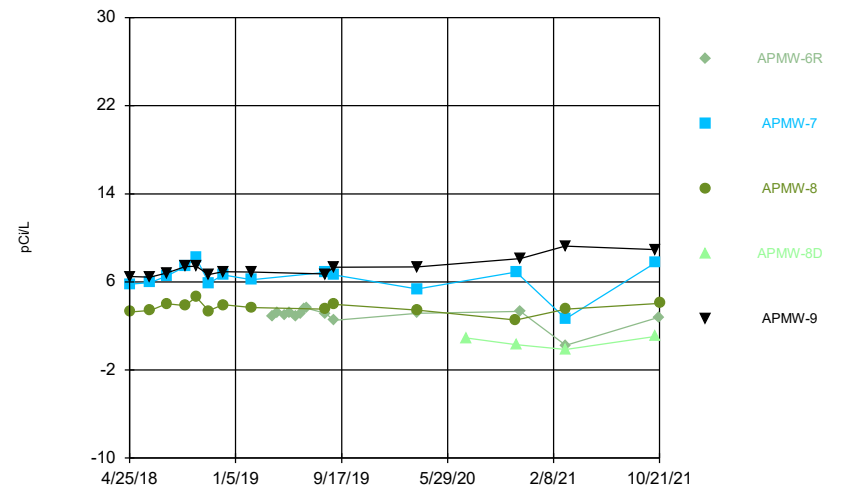
Constituent: Combined Radium 226 + 228 Analysis Run 12/8/2021 3:22 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



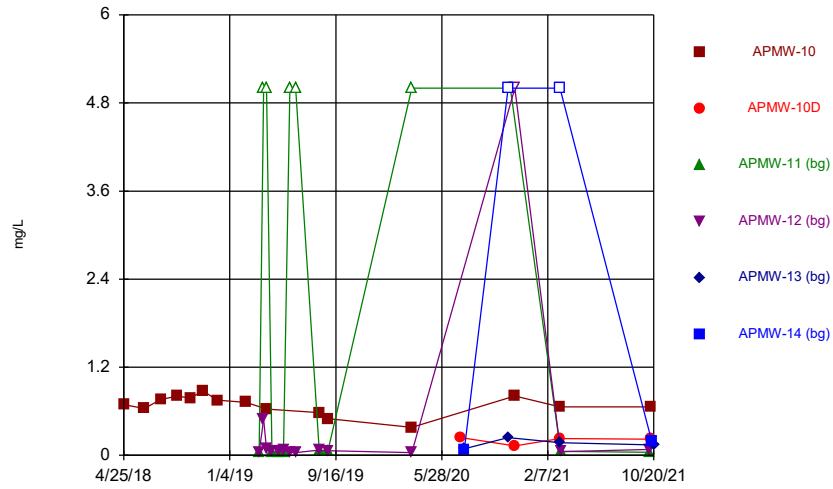
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



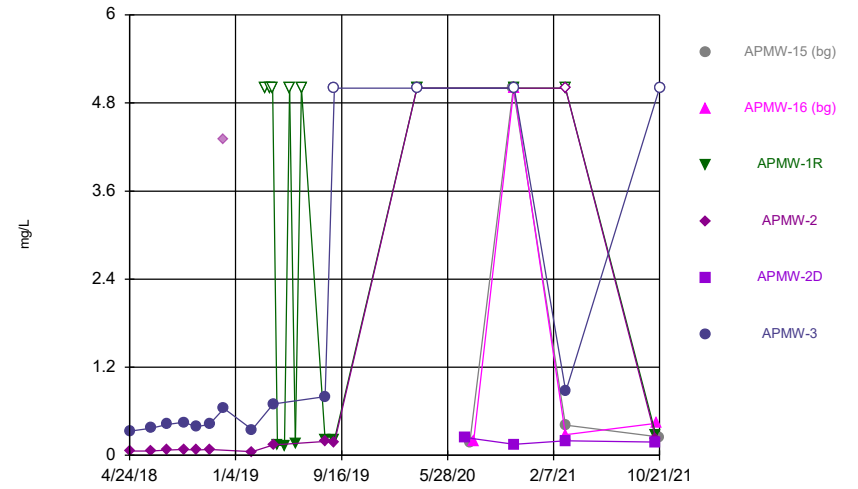
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



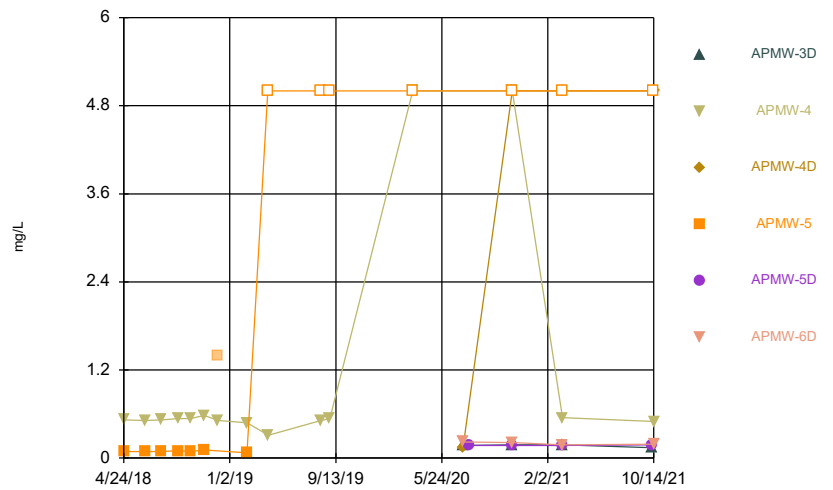
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



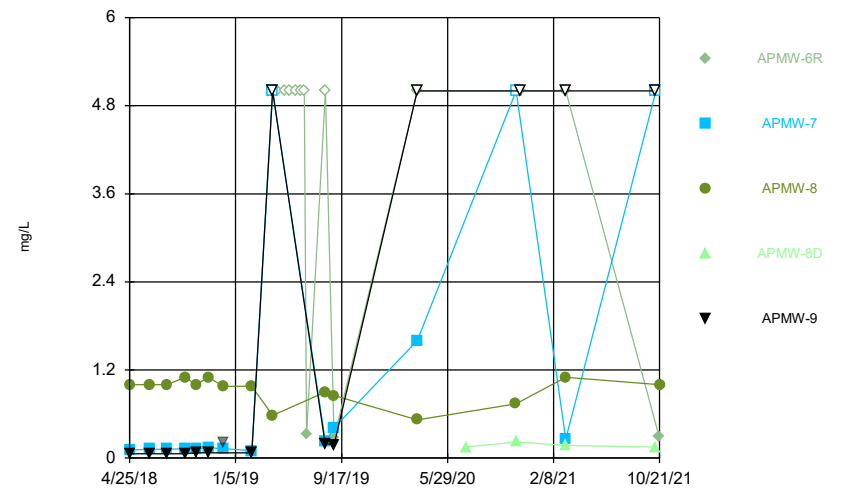
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



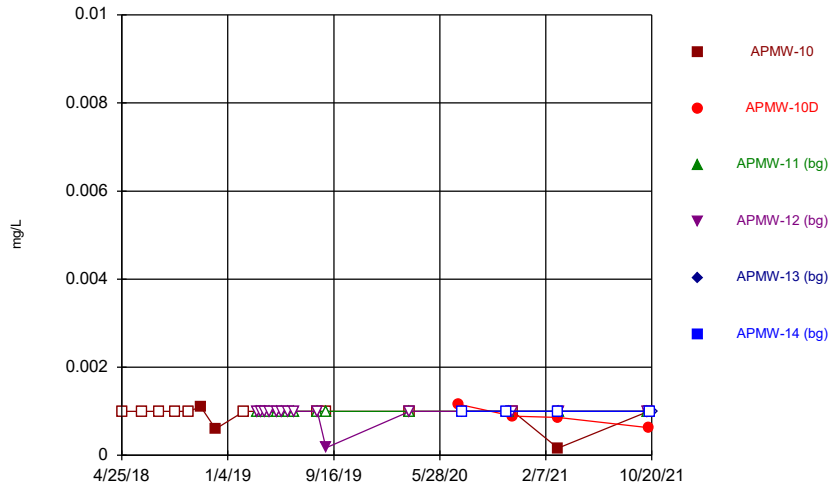
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Time Series



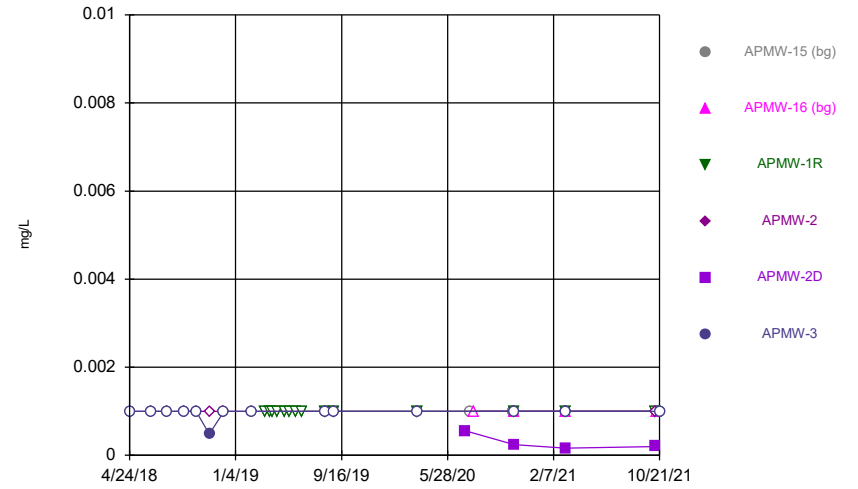
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Time Series



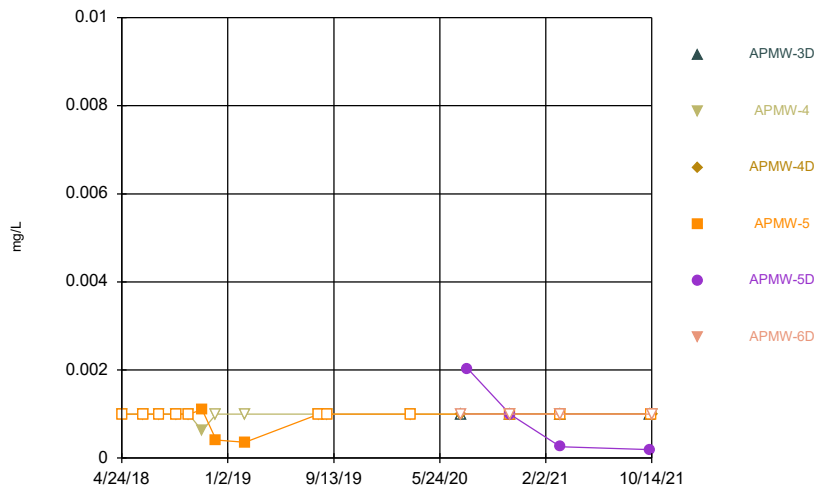
Constituent: Lead Analysis Run 12/8/2021 3:22 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



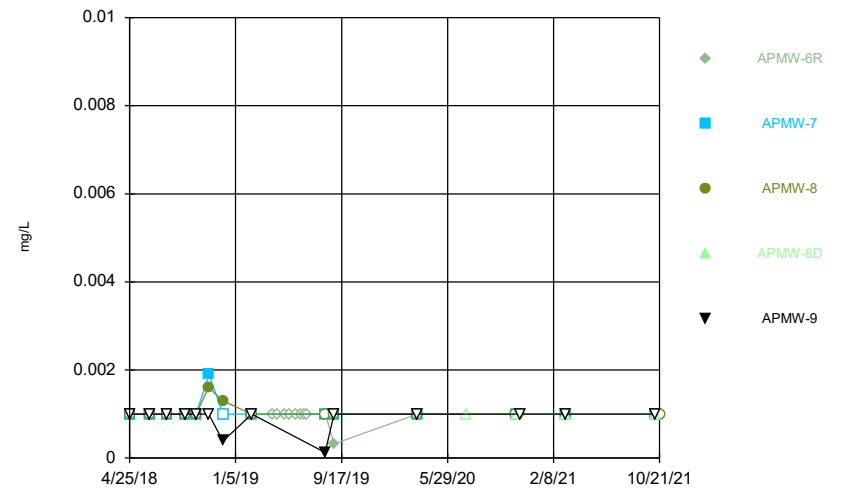
Constituent: Lead Analysis Run 12/8/2021 3:22 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



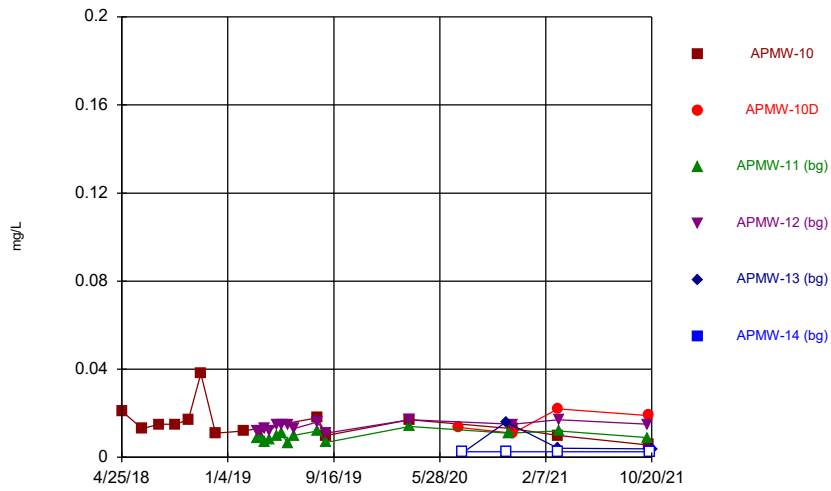
Constituent: Lead Analysis Run 12/8/2021 3:22 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



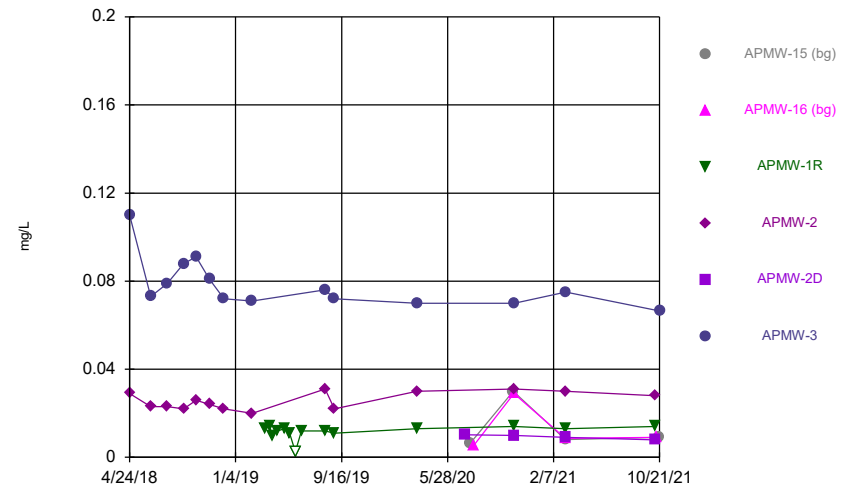
Constituent: Lead Analysis Run 12/8/2021 3:22 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



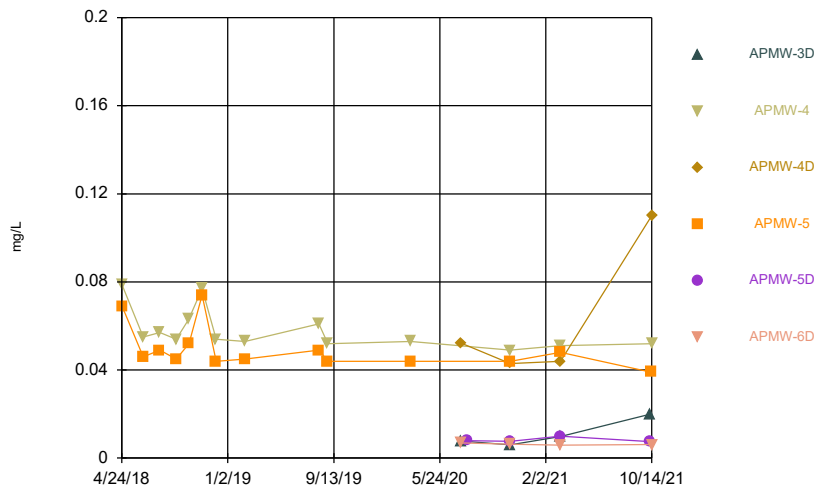
Constituent: Lithium Analysis Run 12/8/2021 3:22 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



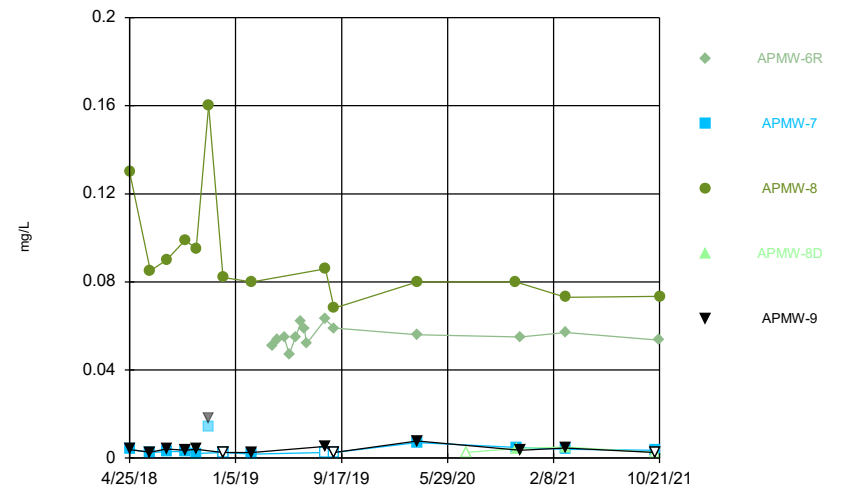
Constituent: Lithium Analysis Run 12/8/2021 3:22 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



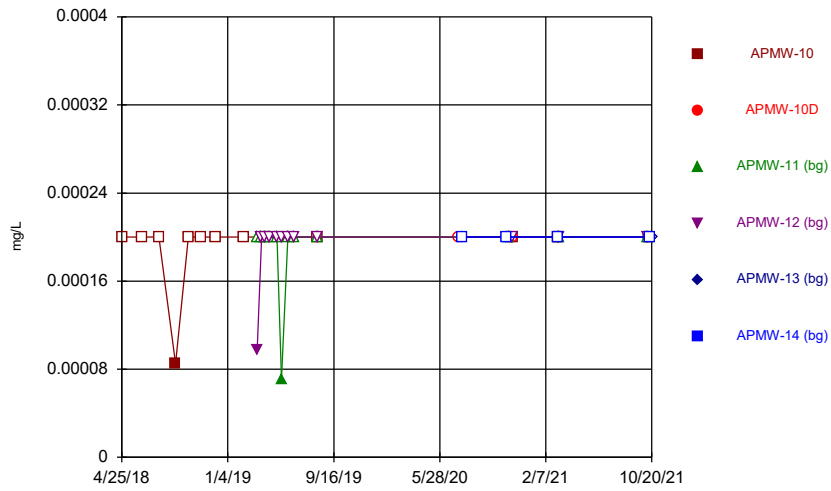
Constituent: Lithium Analysis Run 12/8/2021 3:22 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



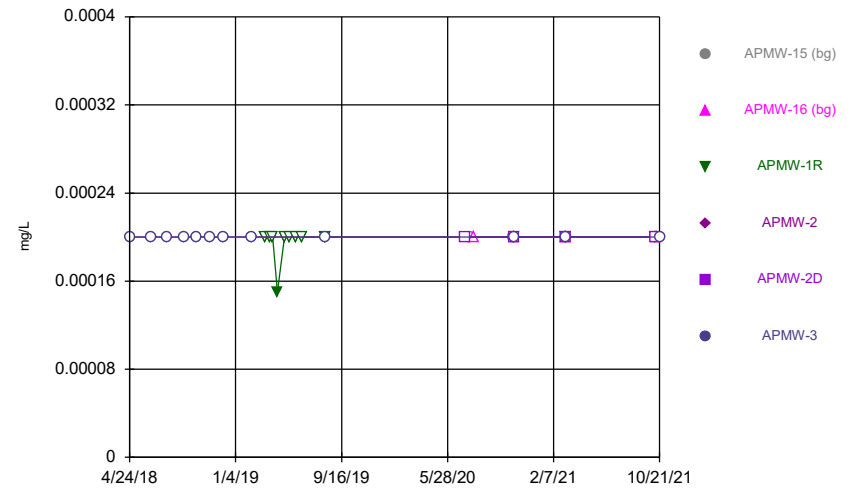
Constituent: Lithium Analysis Run 12/8/2021 3:22 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



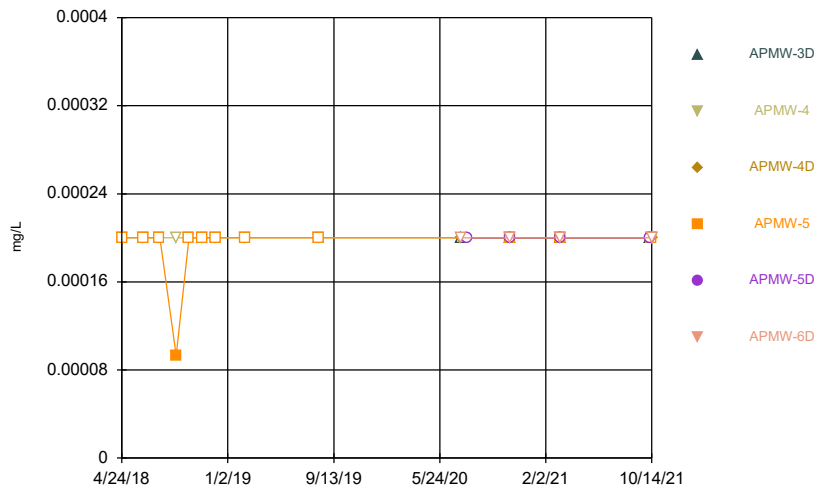
Constituent: Mercury Analysis Run 12/8/2021 3:22 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



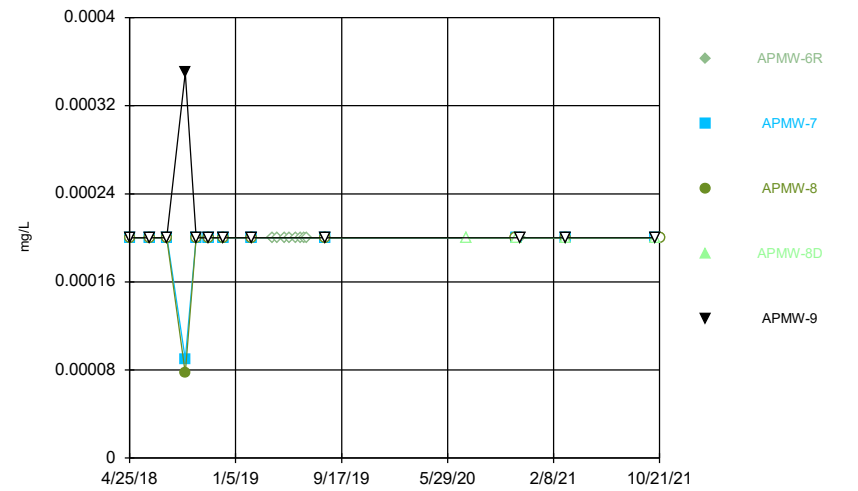
Constituent: Mercury Analysis Run 12/8/2021 3:22 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



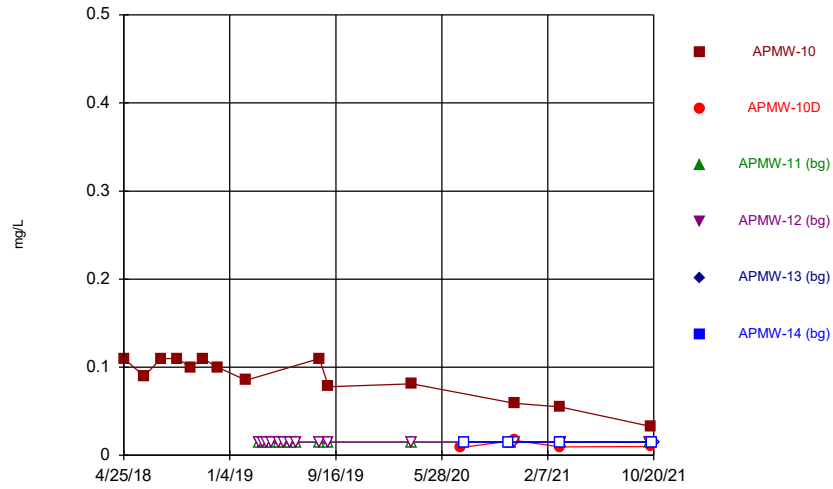
Constituent: Mercury Analysis Run 12/8/2021 3:22 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



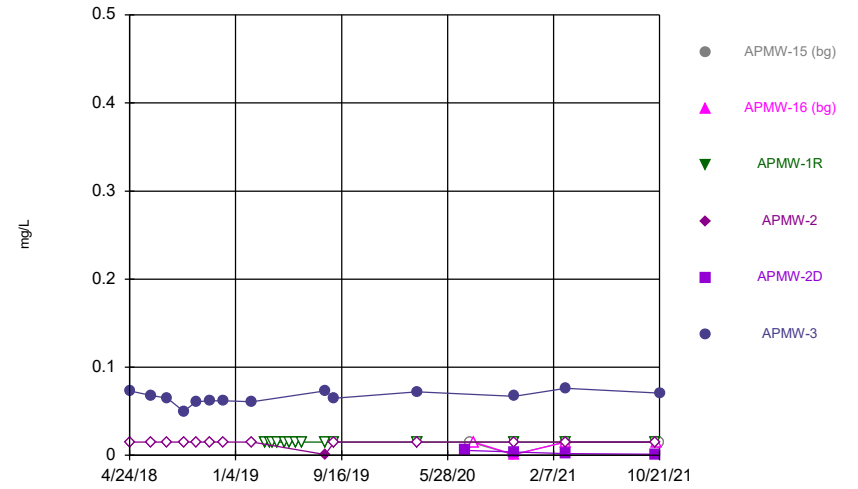
Constituent: Mercury Analysis Run 12/8/2021 3:22 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



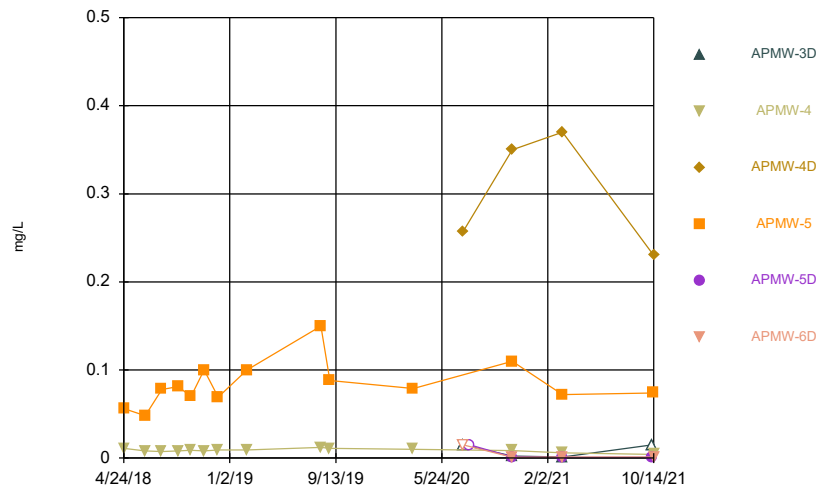
Constituent: Molybdenum Analysis Run 12/8/2021 3:22 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



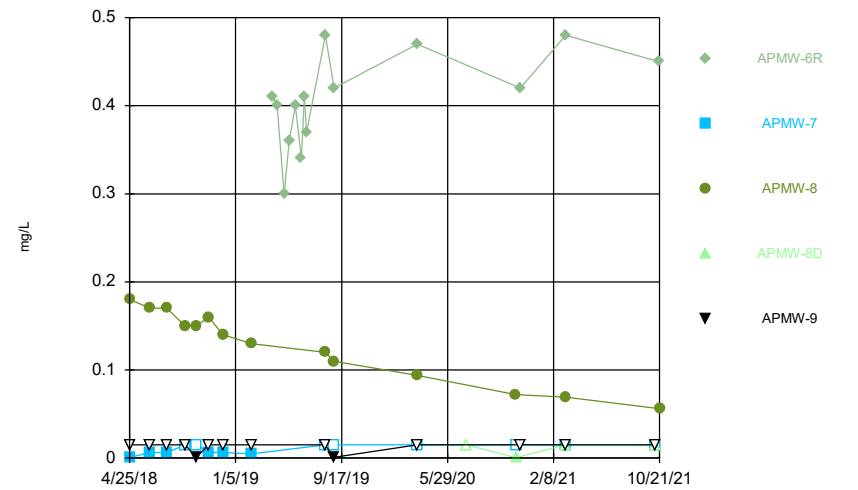
Constituent: Molybdenum Analysis Run 12/8/2021 3:22 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



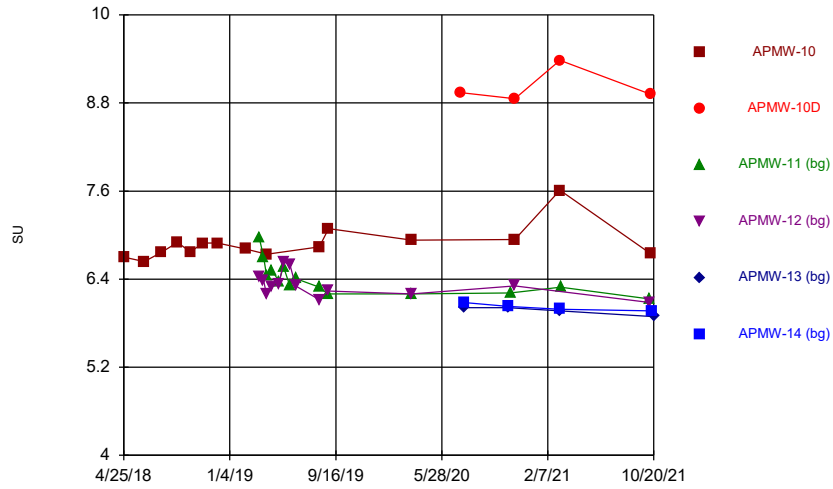
Constituent: Molybdenum Analysis Run 12/8/2021 3:22 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



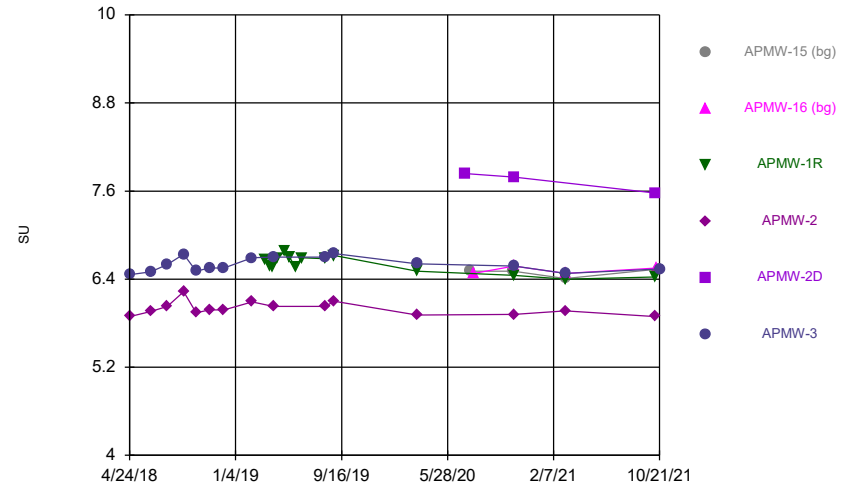
Constituent: Molybdenum Analysis Run 12/8/2021 3:22 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



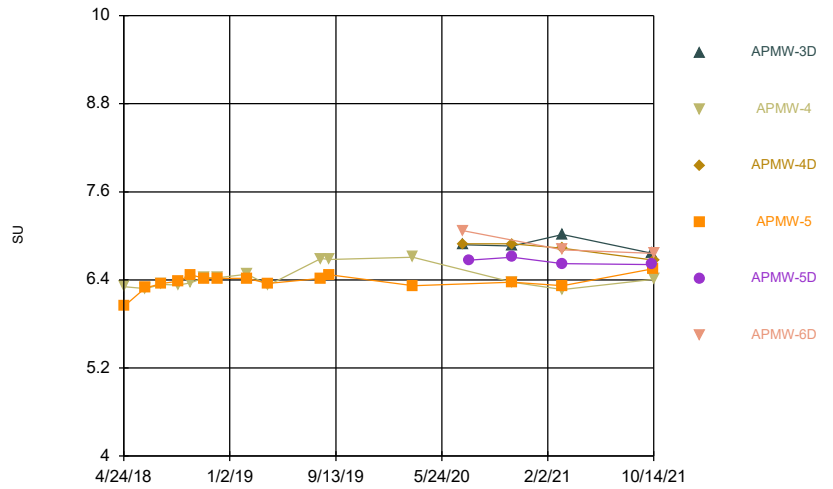
Constituent: pH Analysis Run 12/8/2021 3:22 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



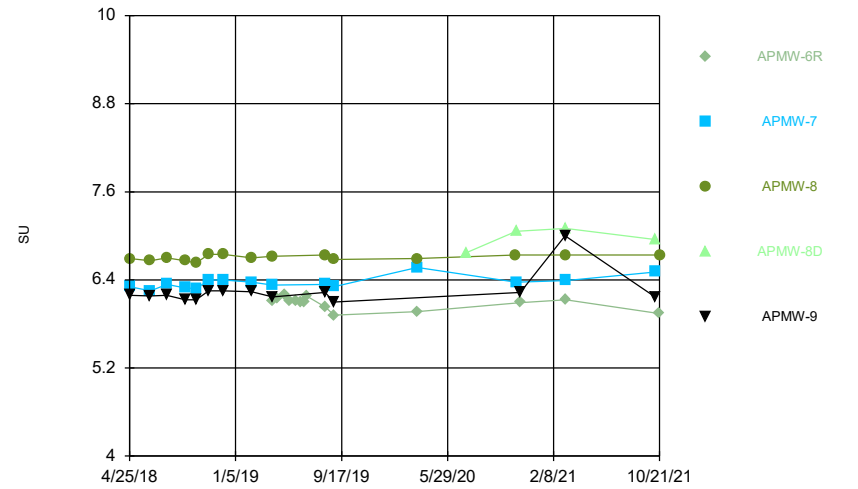
Constituent: pH Analysis Run 12/8/2021 3:22 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



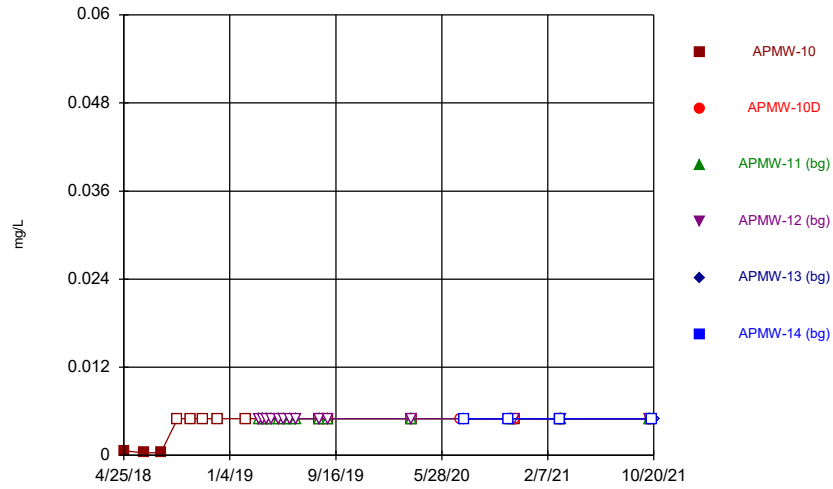
Constituent: pH Analysis Run 12/8/2021 3:22 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



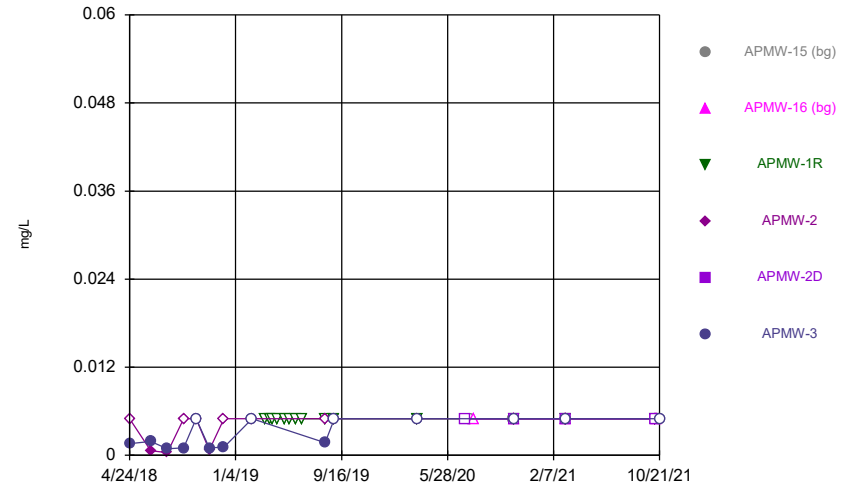
Constituent: pH Analysis Run 12/8/2021 3:22 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



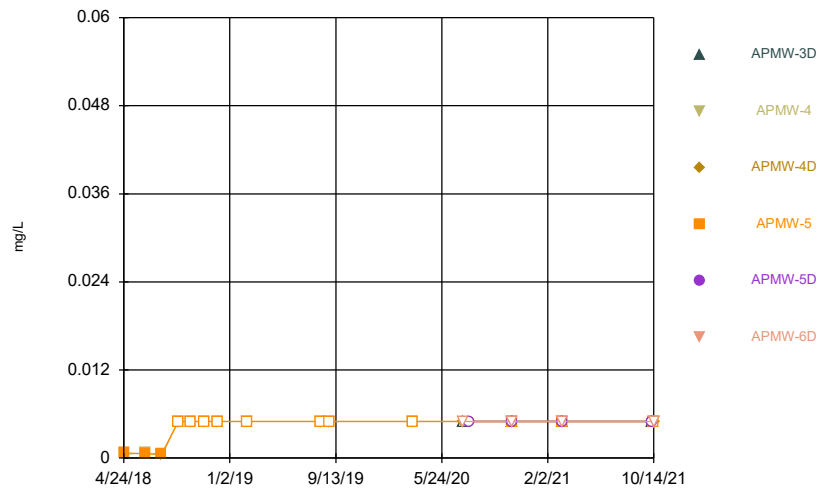
Constituent: Selenium Analysis Run 12/8/2021 3:22 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



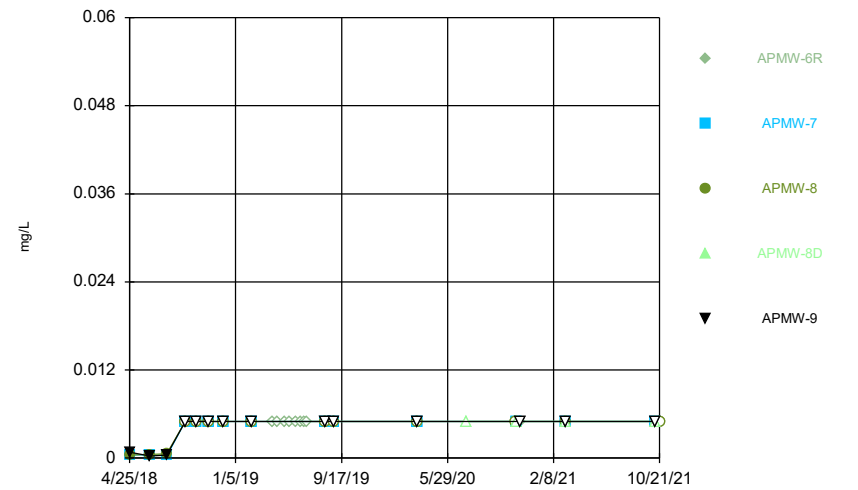
Constituent: Selenium Analysis Run 12/8/2021 3:22 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



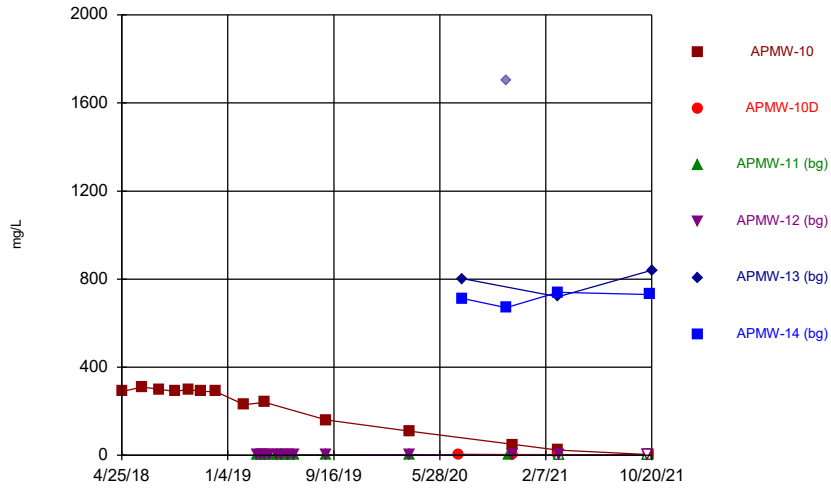
Constituent: Selenium Analysis Run 12/8/2021 3:22 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



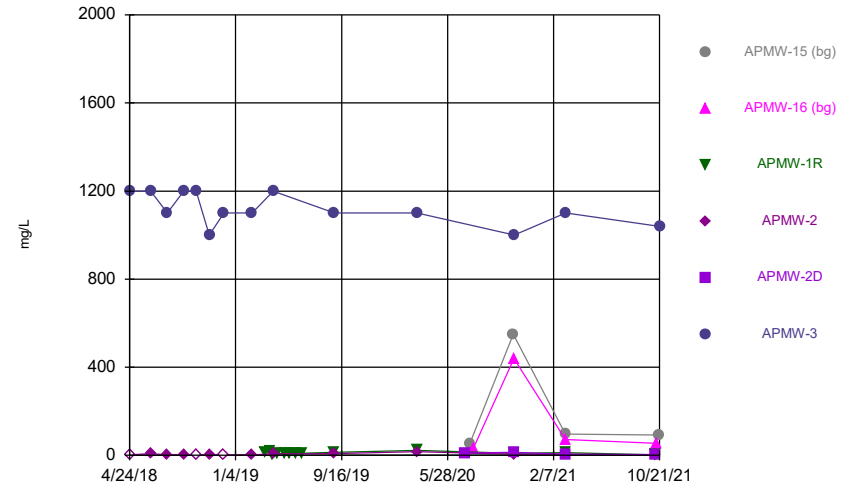
Constituent: Selenium Analysis Run 12/8/2021 3:22 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



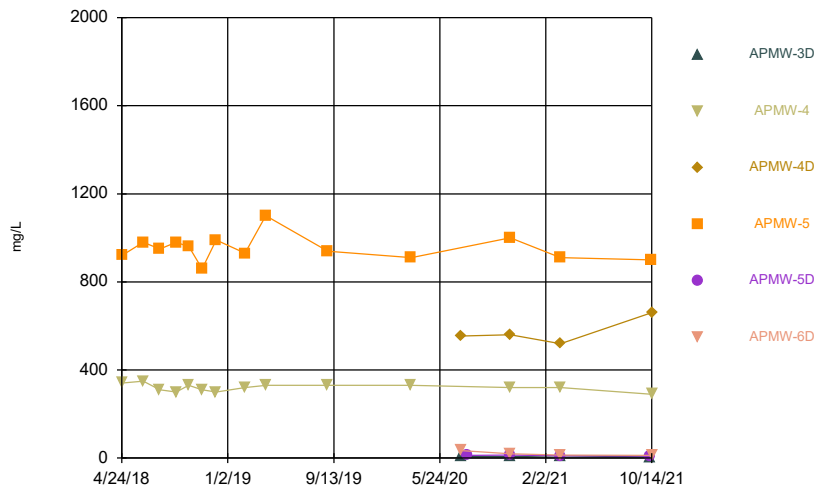
Constituent: Sulfate Analysis Run 12/8/2021 3:22 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



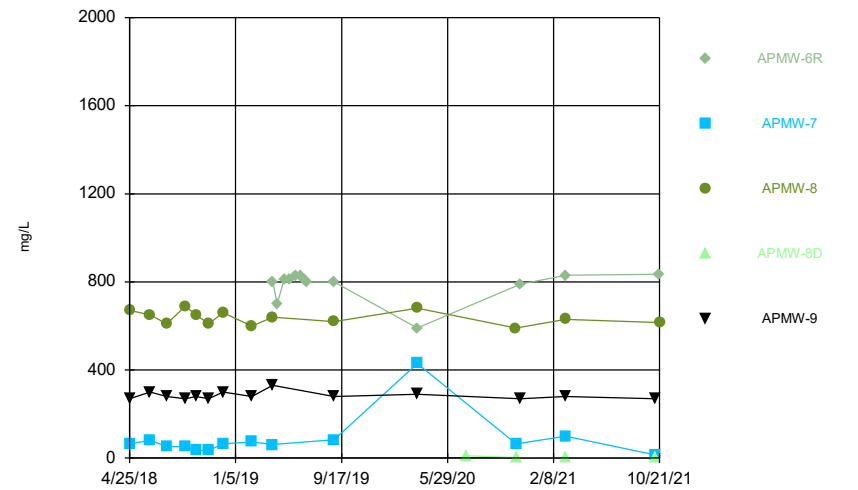
Constituent: Sulfate Analysis Run 12/8/2021 3:22 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



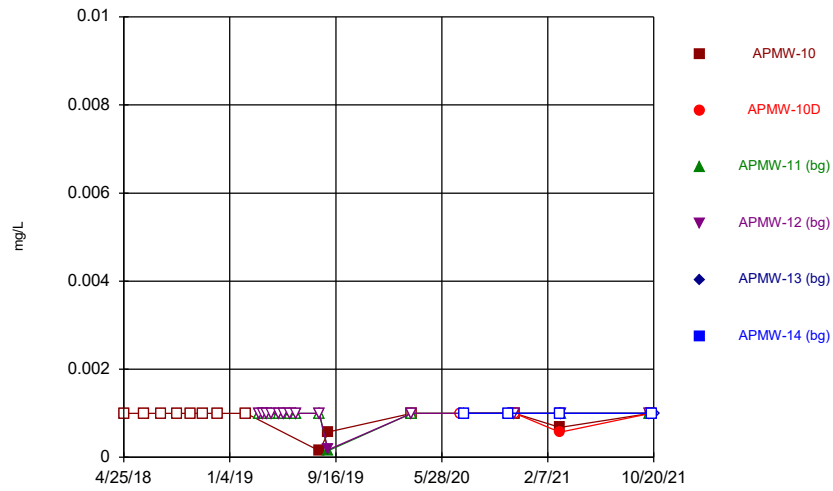
Constituent: Sulfate Analysis Run 12/8/2021 3:22 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



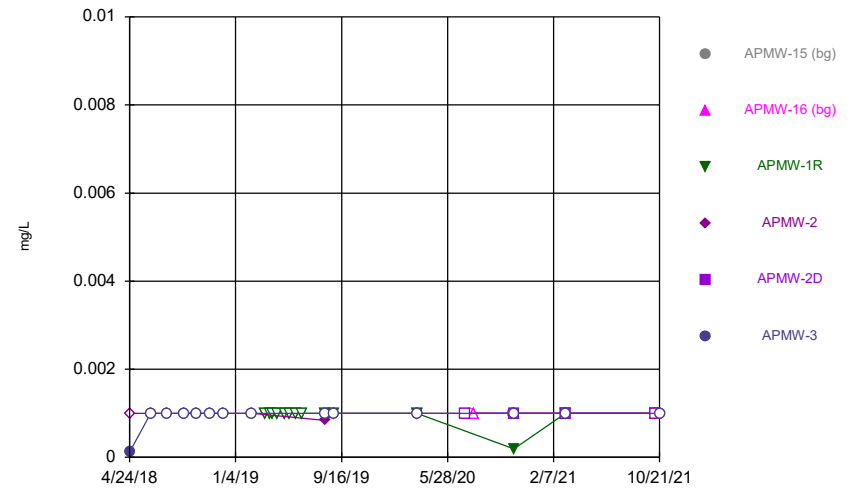
Constituent: Sulfate Analysis Run 12/8/2021 3:22 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



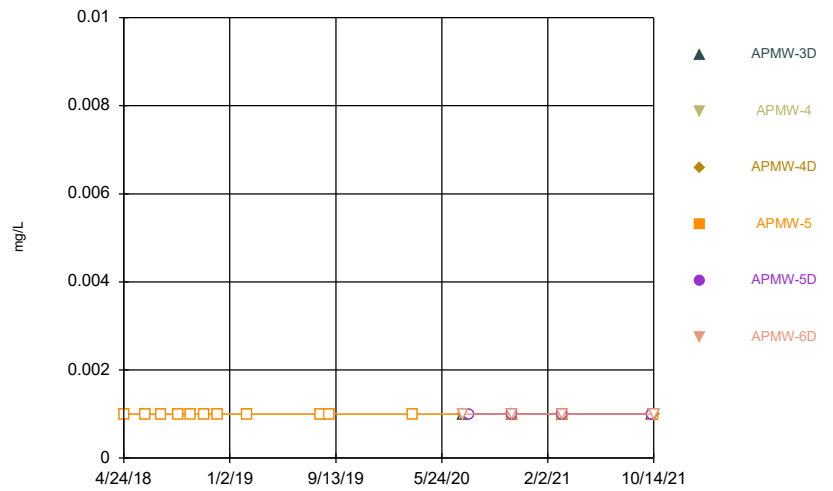
Constituent: Thallium Analysis Run 12/8/2021 3:22 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



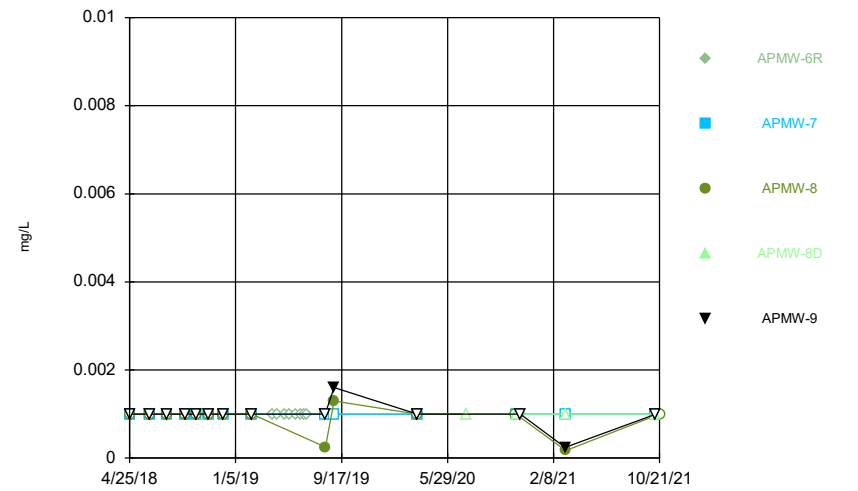
Constituent: Thallium Analysis Run 12/8/2021 3:22 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



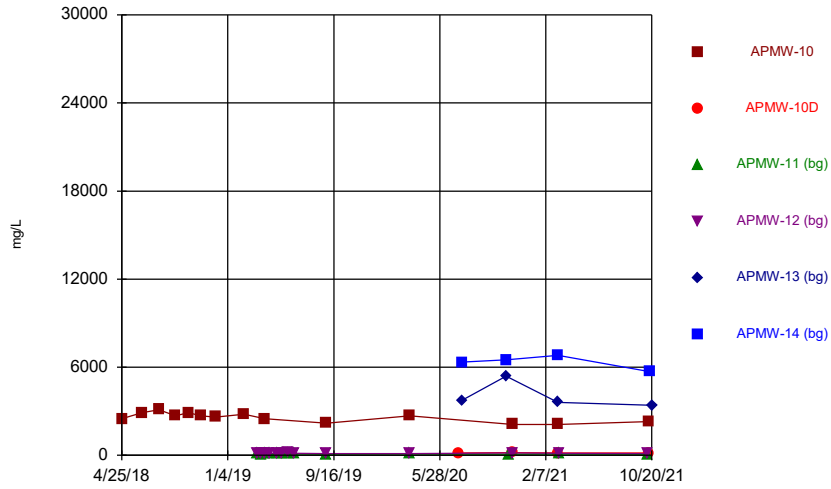
Constituent: Thallium Analysis Run 12/8/2021 3:22 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



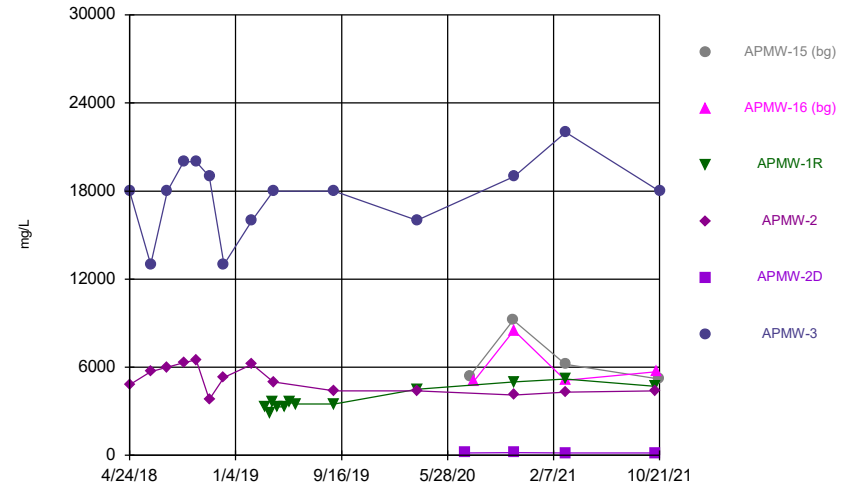
Constituent: Thallium Analysis Run 12/8/2021 3:22 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



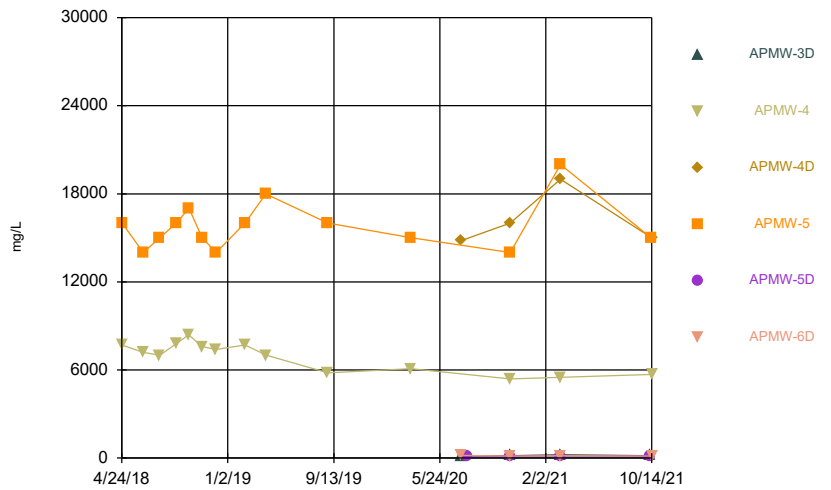
Constituent: Total Dissolved Solids Analysis Run 12/8/2021 3:22 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



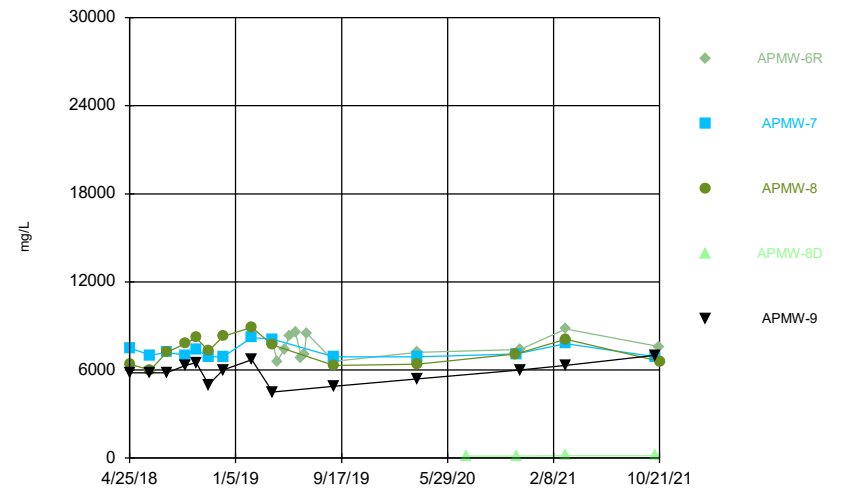
Constituent: Total Dissolved Solids Analysis Run 12/8/2021 3:22 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



Constituent: Total Dissolved Solids Analysis Run 12/8/2021 3:22 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



Constituent: Total Dissolved Solids Analysis Run 12/8/2021 3:22 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-1R
4/25/2018	<0.002								
6/13/2018	<0.002								
7/23/2018	<0.002								
9/1/2018	<0.002								
10/2/2018	<0.002								
11/1/2018	<0.002								
12/6/2018	<0.002								
2/13/2019	<0.002								
3/16/2019			<0.002	<0.002					<0.002
3/27/2019			<0.002 (D)	<0.002 (D)					<0.002
4/3/2019			<0.002 (D)	<0.002 (D)					<0.002
4/15/2019									<0.002
4/16/2019			<0.002	<0.002					
5/2/2019									<0.002
5/3/2019			<0.002	<0.002					
5/14/2019			<0.002	<0.002					<0.002
5/28/2019									<0.002
5/29/2019			<0.002	<0.002					
6/12/2019			<0.002	<0.002					<0.002
8/8/2019	<0.002		<0.002	<0.002					<0.002
8/29/2019			<0.002	<0.002					
8/30/2019	<0.002								<0.002
3/16/2020									<0.002
3/17/2020	<0.002		<0.002	<0.002					
7/13/2020		<0.002							
7/21/2020					<0.002	<0.002	<0.002		
7/30/2020								<0.002	
11/3/2020							<0.002		
11/4/2020					<0.002	<0.002		<0.002	<0.002
11/9/2020			<0.002						
11/20/2020	<0.002	<0.002		<0.002					
3/8/2021	<0.002	<0.002			<0.002	<0.002	<0.002	<0.002	<0.002
3/10/2021			<0.002	<0.002					
10/11/2021			<0.002	<0.002					
10/12/2021	<0.002	<0.002							<0.002
10/15/2021						<0.002		<0.002	
10/20/2021					<0.002		<0.002		

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-2D	APMW-3	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018	<0.002		<0.002		<0.002				
4/25/2018							<0.002		
6/14/2018	<0.002		<0.002		<0.002		<0.002		
7/24/2018	<0.002		<0.002		<0.002		<0.002		
9/1/2018	<0.002		<0.002		<0.002		<0.002		
10/1/2018	<0.002		<0.002		<0.002				
10/2/2018							<0.002		
11/2/2018	<0.002		<0.002		<0.002		<0.002		
12/6/2018					<0.002		<0.002		
12/7/2018	<0.002		<0.002						
2/13/2019	<0.002		<0.002		<0.002		<0.002		
8/8/2019	0.0014 (J)		<0.002						
8/9/2019					<0.002		<0.002		
8/30/2019	<0.002		<0.002		<0.002		<0.002		
3/16/2020	<0.002		<0.002		<0.002				
3/17/2020							<0.002		
7/11/2020		<0.002							
7/13/2020				<0.002					
7/14/2020						<0.002			<0.002
7/30/2020								<0.002	
11/5/2020	<0.002	<0.002	<0.002						
11/9/2020				<0.002	<0.002	<0.002	<0.002	<0.002	
11/10/2020									<0.002
3/8/2021	<0.002	<0.002							
3/9/2021			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
3/10/2021									<0.002
10/11/2021				<0.002				<0.002	
10/12/2021	<0.002	<0.002					<0.002		
10/14/2021					<0.002	<0.002			<0.002
10/21/2021			<0.002						

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		<0.002	<0.002		<0.002
6/13/2018					<0.002
6/14/2018		<0.002	<0.002		
7/23/2018			<0.002		<0.002
7/24/2018		<0.002			
9/6/2018		<0.002	<0.002		<0.002
10/2/2018		<0.002	<0.002		<0.002
11/1/2018			<0.002		<0.002
11/2/2018		<0.002			
12/6/2018		<0.002	<0.002		<0.002
2/13/2019		<0.002	<0.002		<0.002
4/5/2019	<0.002 (D)				
4/15/2019	<0.002				
5/2/2019	<0.002				
5/14/2019	<0.002				
5/29/2019	<0.002				
6/12/2019	<0.002				
6/19/2019	<0.002				
6/25/2019	<0.002				
8/8/2019					<0.002
8/9/2019	<0.002	<0.002	<0.002		
8/30/2019	<0.002	<0.002	<0.002		<0.002
3/17/2020	<0.002	<0.002	<0.002		<0.002
7/13/2020				<0.002	
11/9/2020			<0.002		
11/10/2020		<0.002		<0.002	
11/20/2020	<0.002				<0.002
3/8/2021					<0.002
3/9/2021	<0.002	<0.002	<0.002	<0.002	
10/12/2021		<0.002		<0.002	<0.002
10/20/2021	<0.002				
10/21/2021			<0.002		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-1R
4/25/2018	0.13								
6/13/2018	0.11								
7/23/2018	0.13								
9/1/2018	0.12								
10/2/2018	0.11								
11/1/2018	0.11								
12/6/2018	0.12								
2/13/2019	0.098								
3/16/2019			0.00062 (J)	0.00084 (J)					0.0021
3/27/2019			<0.001 (D)	<0.001 (D)					0.0019
4/3/2019			<0.001 (D)	0.0013 (D)					0.0019
4/15/2019									0.0025
4/16/2019			<0.001	0.0013					
5/2/2019									0.0019
5/3/2019			<0.001	0.0011 (J)					
5/14/2019			<0.001	0.00061 (J)					0.0027
5/28/2019									<0.001
5/29/2019			0.00037 (J)	0.0011					
6/12/2019			0.00056 (J)	0.0013					0.0023
8/8/2019	0.11		<0.001	0.001					0.0012
8/29/2019			<0.001	0.00041 (J)					
8/30/2019	0.079								0.0011
3/16/2020									0.00085 (J)
3/17/2020	0.093		<0.001	0.00043 (J)					
7/13/2020		0.0116							
7/21/2020					<0.001	0.00215	0.00277		
7/30/2020								0.00496	
11/3/2020							0.0013		
11/4/2020					0.00032 (J)	<0.001		0.0036	0.00069 (J)
11/9/2020			<0.001						
11/20/2020	0.072	0.019		0.00042 (J)					
3/8/2021	0.047	0.01			<0.001	<0.001	0.00073 (J)	0.00072 (J)	0.0005 (J)
3/10/2021			<0.001	0.00039 (J)					
10/11/2021			<0.001	0.00031 (J)					
10/12/2021	0.028	0.011							<0.001
10/15/2021						0.00058 (J)		0.0007 (J)	
10/20/2021					<0.001		0.00079 (JD)		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-2D	APMW-3	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018	0.00077 (J)		0.084		0.019				
4/25/2018							0.24		
6/14/2018	<0.001		0.081		0.018		0.22		
7/24/2018	<0.001		0.093		0.018		0.23		
9/1/2018	<0.001		0.099		0.017		0.22		
10/1/2018	0.00094 (J)		0.077		0.017				
10/2/2018							0.21		
11/2/2018	0.0012 (J)		0.067		0.018		0.26		
12/6/2018					0.018		0.23		
12/7/2018	<0.001		0.063						
2/13/2019	<0.001		0.065		0.019		0.23		
8/8/2019	0.00035 (J)		0.074						
8/9/2019					0.018		0.24		
8/30/2019	<0.001		0.07		0.016		0.2		
3/16/2020	<0.001		0.071		0.017				
3/17/2020							0.21		
7/11/2020		0.00374							
7/13/2020				0.002					
7/14/2020						0.00773			0.00412
7/30/2020								0.00958	
11/5/2020	<0.001	0.0033	0.064						
11/9/2020				0.0033	0.018	0.0043	0.26	0.012	
11/10/2020									0.0041
3/8/2021	<0.001	0.0032							
3/9/2021			0.042	0.0035	0.016	0.0059	0.21	0.013	
3/10/2021									0.0045
10/11/2021				0.0037				0.013	
10/12/2021	<0.001	0.0027					0.21		
10/14/2021					0.012	0.0046			0.0055
10/21/2021			0.0445 (D)						

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		0.0021	0.097		0.0016
6/13/2018					0.001 (J)
6/14/2018		0.0015	0.089		
7/23/2018			0.094		0.0011 (J)
7/24/2018		0.0015			
9/6/2018		0.0013	0.082		0.0011 (J)
10/2/2018		0.0014	0.075		0.0015
11/1/2018			0.081		0.0014
11/2/2018		0.0028			
12/6/2018		0.0033	0.079		0.0016
2/13/2019		0.0012 (J)	0.077		0.0013
4/5/2019	0.13 (D)				
4/15/2019	0.13				
5/2/2019	0.089				
5/14/2019	0.13				
5/29/2019	0.12				
6/12/2019	0.13				
6/19/2019	0.16				
6/25/2019	0.13				
8/8/2019					0.0012
8/9/2019	0.16	0.00053 (J)	0.052		
8/30/2019	0.17	0.00044 (J)	0.05		0.0011
3/17/2020	0.18	0.00053 (J)	0.043		0.001
7/13/2020				0.000995 (J)	
11/9/2020			0.036		
11/10/2020		0.00058 (J)		0.0034	
11/20/2020	0.18				0.0012
3/8/2021					0.0015
3/9/2021	0.21	0.00045 (J)	0.035	0.0045	
10/12/2021		0.00044 (J)		0.0044	0.0013
10/20/2021	0.2 (D)				
10/21/2021			0.026 (D)		

Time Series

Constituent: Barium (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-1R
4/25/2018	0.26								
6/13/2018	0.3								
7/23/2018	0.24								
9/1/2018	0.25								
10/2/2018	0.23								
11/1/2018	0.23								
12/6/2018	0.24								
2/13/2019	0.26								
3/16/2019			0.09	0.069					0.89
3/27/2019			0.095 (D)	0.079 (D)					1.1
4/3/2019			0.085 (D)	0.075 (D)					1.1
4/15/2019									0.98
4/16/2019			0.081	0.072					
5/2/2019									0.94
5/3/2019			0.074	0.076					
5/14/2019			0.083	0.076					1
5/28/2019									1
5/29/2019			0.04	0.091					
6/12/2019			0.066	0.083					0.91
8/8/2019	0.24		0.053	0.065					0.93
8/29/2019			0.043	0.071					
8/30/2019	0.2								0.91
3/16/2020									1.2
3/17/2020	0.25		0.037	0.07					
7/13/2020		0.0358							
7/21/2020					0.212	0.243	0.059		
7/30/2020								0.0659	
11/3/2020							0.054		
11/4/2020					0.11	0.22		0.076	1.4
11/9/2020			0.038						
11/20/2020	0.27	0.032		0.065					
3/8/2021	0.32	0.026			0.24	0.21	0.048	0.063	1.3
3/10/2021			0.038	0.06					
10/11/2021			0.037	0.06					
10/12/2021	0.34	0.027							1.5
10/15/2021						0.22		0.067	
10/20/2021					0.25		0.049		

Time Series

Constituent: Barium (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-2D	APMW-3	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018	2.8		0.097		0.46				
4/25/2018							0.093		
6/14/2018	3.1		0.11		0.5		0.11		
7/24/2018	3		0.1		0.54		0.093		
9/1/2018	2.9		0.12		0.53		0.1		
10/1/2018	4		0.1		0.5				
10/2/2018							0.1		
11/2/2018	3.1		0.1		0.5		0.12		
12/6/2018					0.43		0.1		
12/7/2018	3.3		0.11						
2/13/2019	2.9		0.1		0.45		0.1		
8/8/2019	3.2		0.1						
8/9/2019					0.33		0.11		
8/30/2019	2.7		0.1		0.29		0.086		
3/16/2020	3.2		0.1		0.27				
3/17/2020							0.1		
7/11/2020		0.0418							
7/13/2020				0.135					
7/14/2020						0.342			0.107
7/30/2020								0.0659	
11/5/2020	3.2	0.038	0.1						
11/9/2020				0.14	0.23	0.24	0.1	0.069	
11/10/2020									0.077
3/8/2021	3.3	0.037							
3/9/2021			0.1	0.16	0.22	0.21	0.1	0.059	
3/10/2021									0.087
10/11/2021				0.18				0.052	
10/12/2021	3.3	0.04					0.1		
10/14/2021					0.21	0.13			0.1
10/21/2021			0.095						

Time Series

Constituent: Barium (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		0.66	0.2		0.42
6/13/2018					0.45
6/14/2018		0.74	0.22		
7/23/2018			0.2		0.42
7/24/2018		0.72			
9/6/2018		0.79	0.22		0.45
10/2/2018		0.93	0.21		0.43
11/1/2018			0.21		0.43
11/2/2018		1.1			
12/6/2018		0.7	0.22		0.44
2/13/2019		0.59	0.23		0.44
4/5/2019	0.071 (D)				
4/15/2019	0.067				
5/2/2019	0.071				
5/14/2019	0.068				
5/29/2019	0.067 (J)				
6/12/2019	0.064 (J)				
6/19/2019	0.059 (J)				
6/25/2019	0.057 (J)				
8/8/2019					0.42
8/9/2019	0.058	0.76	0.2		
8/30/2019	0.052	0.56	0.2		0.42
3/17/2020	0.05	0.53	0.21		0.49
7/13/2020				0.192	
11/9/2020			0.23		
11/10/2020		0.77		0.12	
11/20/2020	0.048				0.48
3/8/2021					0.47
3/9/2021	0.055	0.53	0.22	0.15	
10/12/2021		0.97		0.14	0.49
10/20/2021	0.048				
10/21/2021			0.23		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-1R
4/25/2018	<0.0025								
6/13/2018	<0.0025								
7/23/2018	<0.0025								
9/1/2018	<0.0025								
10/2/2018	<0.0025								
11/1/2018	<0.0025								
12/6/2018	<0.0025								
2/13/2019	<0.0025								
3/16/2019			<0.0025	<0.0025					<0.0025
3/27/2019			<0.0025 (D)	<0.0025 (D)					<0.0025
4/3/2019			<0.0025 (D)	<0.0025 (D)					<0.0025
4/15/2019									<0.0025
4/16/2019			<0.0025	<0.0025					
5/2/2019									<0.0025
5/3/2019			<0.0025	<0.0025					
5/14/2019			<0.0025	<0.0025					<0.0025
5/28/2019									<0.0025
5/29/2019			0.00019 (J)	<0.0025					
6/12/2019			<0.0025	<0.0025					<0.0025
8/8/2019	<0.0025		<0.0025	<0.0025					<0.0025
8/29/2019			0.0002 (J)	0.00023 (J)					
8/30/2019	0.00043 (J)								0.00019 (J)
3/16/2020									<0.0025
3/17/2020	<0.0025		<0.0025	<0.0025					
7/13/2020		<0.0025							
7/21/2020					<0.0025	<0.0025	<0.0025		
7/30/2020								<0.0025	
11/3/2020							<0.0025		
11/4/2020					<0.0025	<0.0025		<0.0025	<0.0025
11/9/2020			<0.0025						
11/20/2020	<0.0025	<0.0025		<0.0025					
3/8/2021	0.00076 (J)	0.00057 (J)			<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
3/10/2021			<0.0025	<0.0025					
10/11/2021			<0.0025	<0.0025					
10/12/2021	<0.0025	<0.0025							<0.0025
10/15/2021						<0.0025		<0.0025	
10/20/2021					<0.0025		<0.0025		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-2D	APMW-3	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018	<0.0025		<0.0025		<0.0025				
4/25/2018							<0.0025		
6/14/2018	<0.0025		<0.0025		<0.0025		<0.0025		
7/24/2018	<0.0025		<0.0025		<0.0025		<0.0025		
9/1/2018	<0.0025		<0.0025		<0.0025		<0.0025		
10/1/2018	<0.0025		<0.0025		<0.0025				
10/2/2018							<0.0025		
11/2/2018	<0.0025		<0.0025		<0.0025		<0.0025		
12/6/2018					<0.0025		<0.0025		
12/7/2018	<0.0025		<0.0025						
2/13/2019	<0.0025		<0.0025		<0.0025		<0.0025		
8/8/2019	0.00061 (J)		<0.0025						
8/9/2019					<0.0025		<0.0025		
8/30/2019	0.00023 (J)		0.00018 (J)		<0.0025		<0.0025		
3/16/2020	<0.0025		<0.0025		<0.0025				
3/17/2020							<0.0025		
7/11/2020		<0.0025							
7/13/2020				<0.0025					
7/14/2020						<0.0025			<0.0025
7/30/2020								<0.0025	
11/5/2020	<0.0025	<0.0025	<0.0025						
11/9/2020				<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
11/10/2020									<0.0025
3/8/2021	0.00018 (J)	<0.0025							
3/9/2021			<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
3/10/2021									<0.0025
10/11/2021				<0.0025				<0.0025	
10/12/2021	<0.0025	<0.0025					<0.0025		
10/14/2021					<0.0025	<0.0025			<0.0025
10/21/2021			<0.0025						

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		<0.0025	<0.0025		<0.0025
6/13/2018					<0.0025
6/14/2018		<0.0025	<0.0025		
7/23/2018			<0.0025		<0.0025
7/24/2018		<0.0025			
9/6/2018		<0.0025	<0.0025		<0.0025
10/2/2018		<0.0025	<0.0025		<0.0025
11/1/2018			<0.0025		<0.0025
11/2/2018		<0.0025			
12/6/2018		<0.0025	<0.0025		<0.0025
2/13/2019		<0.0025	<0.0025		<0.0025
4/5/2019	<0.0025 (D)				
4/15/2019	<0.0025				
5/2/2019	<0.0025				
5/14/2019	<0.0025				
5/29/2019	<0.0025				
6/12/2019	<0.0025				
6/19/2019	<0.0025				
6/25/2019	<0.0025				
8/8/2019					<0.0025
8/9/2019	<0.0025	<0.0025	<0.0025		
8/30/2019	0.00036 (J)	0.00025 (J)	0.00038 (J)		0.00049 (J)
3/17/2020	<0.0025	<0.0025	<0.0025		<0.0025
7/13/2020				<0.0025	
11/9/2020			<0.0025		
11/10/2020		<0.0025		<0.0025	
11/20/2020	<0.0025				<0.0025
3/8/2021					0.00024 (J)
3/9/2021	<0.0025	<0.0025	<0.0025	<0.0025	
10/12/2021		<0.0025		<0.0025	<0.0025
10/20/2021	<0.0025				
10/21/2021			<0.0025		

Time Series

Constituent: Boron (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-1R
4/25/2018	1.7								
6/13/2018	1.7								
7/23/2018	2								
9/1/2018	1.9								
10/2/2018	1.8								
11/1/2018	1.8								
12/6/2018	1.9								
2/13/2019	2.4								
3/16/2019			0.028 (J)	0.035 (J)					4.5
3/27/2019			0.027 (JD)	0.033 (JD)					5.2
4/3/2019			0.089 (D)	0.023 (JD)					5.3
4/4/2019	1.8								
4/15/2019									5.9
4/16/2019			<0.08	<0.08					
5/2/2019									5.3
5/3/2019			<0.08	0.021 (J)					
5/14/2019			<0.08	<0.08					5.5
5/28/2019									5.7
5/29/2019			0.034 (J)	0.044 (J)					
6/12/2019			0.05 (J)	0.047 (J)					4.4
8/29/2019			<0.08	<0.08					
8/30/2019	1.9								6.2
3/16/2020									7.2
3/17/2020	1.9		0.057 (J)	0.057 (J)					
7/13/2020		0.105							
7/21/2020					0.58	0.718	0.609		
7/30/2020								0.62	
11/3/2020							1.2		
11/4/2020					0.88	0.85		1.2	6.8
11/9/2020			<0.08						
11/20/2020	1.8	0.22		0.098					
3/8/2021	1.8	0.14			0.63	0.71	0.59	0.6	7.3
3/10/2021			<0.08	0.046 (J)					
10/11/2021			0.053 (J)	0.045 (J)					
10/12/2021	1.9	0.14							7.2
10/15/2021						0.78		0.77	
10/20/2021					0.64		0.65		

Time Series

Constituent: Boron (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-2D	APMW-3	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018	4.1		5.3		1.9				
4/25/2018							6.9		
6/14/2018	4		5.1		1.9		6.8		
7/24/2018	4.3		5.5		1.9		6.9		
9/1/2018	4		4.9		1.7		6.2		
10/1/2018	4		5		1.7				
10/2/2018							6.5		
11/2/2018	3.5		4.6		1.7		5.5		
12/6/2018					1.7		5.7		
12/7/2018	3.9		4.8						
2/13/2019	4.4		6		1.7		7.6		
4/4/2019							5.8		
4/5/2019	3.6		4.5		1.6				
8/30/2019	3.7		5		1.6		6.1		
3/16/2020	3.7		5.3		1.6				
3/17/2020							6.6		
7/11/2020		0.0771							
7/13/2020				0.0613					
7/14/2020						3.55			0.0574
7/30/2020								0.0792	
11/5/2020	3.6	0.12	5.1						
11/9/2020				0.072 (J)	1.3	3.6	5.8	0.062 (J)	
11/10/2020									0.068 (J)
3/8/2021	3.5	0.094							
3/9/2021			5.5	0.099	1.2	3.3	6.1	0.083	
3/10/2021									0.076 (J)
10/11/2021				0.073 (J)				0.11	
10/12/2021	3.8	0.37					6.1		
10/14/2021					1.2	3.5			0.077
10/21/2021			5.1						

Time Series

Constituent: Boron (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		1	23		6.8
6/13/2018					6.6
6/14/2018		0.91	21		
7/23/2018			22		6.8
7/24/2018		1			
9/6/2018		1.1	21		6.5
10/2/2018		0.95	21		6.5
11/1/2018			19		5.6
11/2/2018		0.82			
12/6/2018		1.1	20		6.4
2/13/2019		0.95	27		8.4
4/4/2019		0.98	20		6.1
4/5/2019	8.9 (D)				
4/15/2019	10				
5/2/2019	10				
5/14/2019	9.3				
5/29/2019	9.5				
6/12/2019	11				
6/19/2019	9.5				
6/25/2019	11				
8/30/2019	11	0.88	19		7.1
3/17/2020	11	0.98	20		7.1
7/13/2020				0.042 (J)	
11/9/2020			21		
11/10/2020		0.94		0.076 (J)	
11/20/2020	9.5				6.5
3/8/2021					6.5
3/9/2021	12	0.91	21	0.095	
10/12/2021		1.2		0.077 (J)	6.7
10/20/2021	11				
10/21/2021			22		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-1R
4/25/2018	<0.0025								
6/13/2018	<0.0025								
7/23/2018	<0.0025								
9/1/2018	<0.0025								
10/2/2018	<0.0025								
11/1/2018	<0.0025								
12/6/2018	<0.0025								
2/13/2019	<0.0025								
3/16/2019			<0.0025	<0.0025					<0.0025
3/27/2019			<0.0025 (D)	<0.0025 (D)					<0.0025
4/3/2019			<0.0025 (D)	<0.0025 (D)					<0.0025
4/15/2019									0.00045 (J)
4/16/2019			<0.0025	<0.0025					
5/2/2019									<0.0025
5/3/2019			<0.0025	<0.0025					
5/14/2019			<0.0025	<0.0025					<0.0025
5/28/2019									<0.0025
5/29/2019			<0.0025	<0.0025					
6/12/2019			<0.0025	<0.0025					<0.0025
8/8/2019	<0.0025		<0.0025	<0.0025					<0.0025
8/29/2019			<0.0025	<0.0025					
8/30/2019	<0.0025								<0.0025
3/16/2020									<0.0025
3/17/2020	<0.0025		<0.0025	<0.0025					
7/13/2020		<0.0025							
7/21/2020					<0.0025	<0.0025	<0.0025		
7/30/2020								0.000355 (J)	
11/3/2020							<0.0025		
11/4/2020					<0.0025	<0.0025		<0.0025	<0.0025
11/9/2020			<0.0025						
11/20/2020	<0.0025	<0.0025		<0.0025					
3/8/2021	0.00025 (J)	0.00025 (J)			<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
3/10/2021			<0.0025	<0.0025					
10/11/2021			<0.0025	<0.0025					
10/12/2021	<0.0025	<0.0025							<0.0025
10/15/2021						<0.0025		<0.0025	
10/20/2021					<0.0025		<0.0025		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-2D	APMW-3	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018	<0.0025		<0.0025		<0.0025				
4/25/2018							<0.0025		
6/14/2018	<0.0025		<0.0025		<0.0025		<0.0025		
7/24/2018	<0.0025		<0.0025		<0.0025		<0.0025		
9/1/2018	<0.0025		<0.0025		<0.0025		<0.0025		
10/1/2018	<0.0025		<0.0025		<0.0025				
10/2/2018							<0.0025		
11/2/2018	<0.0025		<0.0025		<0.0025		<0.0025		
12/6/2018					<0.0025		<0.0025		
12/7/2018	<0.0025		<0.0025						
2/13/2019	<0.0025		<0.0025		<0.0025		<0.0025		
8/8/2019	<0.0025		<0.0025						
8/9/2019					<0.0025		<0.0025		
8/30/2019	<0.0025		<0.0025		<0.0025		<0.0025		
3/16/2020	<0.0025		<0.0025		<0.0025				
3/17/2020							<0.0025		
7/11/2020		<0.0025							
7/13/2020				<0.0025					
7/14/2020						<0.0025			<0.0025
7/30/2020								<0.0025	
11/5/2020	<0.0025	<0.0025	<0.0025						
11/9/2020				<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
11/10/2020									<0.0025
3/8/2021	<0.0025	<0.0025							
3/9/2021			<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
3/10/2021									<0.0025
10/11/2021				<0.0025				<0.0025	
10/12/2021	<0.0025	<0.0025					<0.0025		
10/14/2021					<0.0025	<0.0025			<0.0025
10/21/2021			<0.0025						

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		<0.0025	<0.0025		<0.0025
6/13/2018					<0.0025
6/14/2018		<0.0025	<0.0025		
7/23/2018			<0.0025		<0.0025
7/24/2018		<0.0025			
9/6/2018		<0.0025	<0.0025		<0.0025
10/2/2018		<0.0025	<0.0025		<0.0025
11/1/2018			<0.0025		<0.0025
11/2/2018		<0.0025			
12/6/2018		<0.0025	<0.0025		<0.0025
2/13/2019		<0.0025	<0.0025		<0.0025
4/5/2019	<0.0025 (D)				
4/15/2019	<0.0025				
5/2/2019	<0.0025				
5/14/2019	<0.0025				
5/29/2019	<0.0025				
6/12/2019	<0.0025				
6/19/2019	<0.0025				
6/25/2019	<0.0025				
8/8/2019					<0.0025
8/9/2019	0.00014 (J)	<0.0025	<0.0025		
8/30/2019	0.00026 (J)	<0.0025	<0.0025		<0.0025
3/17/2020	<0.0025	<0.0025	<0.0025		<0.0025
7/13/2020				<0.0025	
11/9/2020			<0.0025		
11/10/2020		<0.0025		<0.0025	
11/20/2020	<0.0025				<0.0025
3/8/2021					<0.0025
3/9/2021	<0.0025	<0.0025	<0.0025	<0.0025	
10/12/2021		<0.0025		<0.0025	<0.0025
10/20/2021	<0.0025				
10/21/2021			<0.0025		

Time Series

Constituent: Calcium (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-1R
4/25/2018	68								
6/13/2018	79								
7/23/2018	73								
9/1/2018	68								
10/2/2018	71								
11/1/2018	67								
12/6/2018	65								
2/13/2019	64								
3/16/2019			17	13					130
3/27/2019			16 (D)	15 (D)					140
4/3/2019			15 (D)	13 (D)					140
4/4/2019	80								
4/15/2019									130
4/16/2019			13	12					
5/2/2019									130
5/3/2019			12	13					
5/14/2019			14	13					140
5/28/2019									150
5/29/2019			7	15					
6/12/2019			13	14					130
8/29/2019			9.4	12					
8/30/2019	53								160
3/16/2020									200
3/17/2020	59		9.8	12					
7/13/2020		2.62							
7/21/2020					97.7	127	81.7		
7/30/2020								99.2	
11/3/2020							120		
11/4/2020					110	120		130	200
11/9/2020			11						
11/20/2020	53	2.9		12					
3/8/2021	47	3.4			92	110	69	69	210
3/10/2021			12	12					
10/11/2021			11	12					
10/12/2021	52	3.6							200
10/15/2021						110		75	
10/20/2021					97		68 (D)		

Time Series

Constituent: Calcium (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-2D	APMW-3	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018	310		320		190				
4/25/2018							350		
6/14/2018	360		310		200		340		
7/24/2018	370		360		210		340		
9/1/2018	390		320		220		360		
10/1/2018	380		360		210				
10/2/2018							310		
11/2/2018	320		310		190		310		
12/6/2018					190		330		
12/7/2018	330		320						
2/13/2019	320		300		180		310		
4/4/2019							270		
4/5/2019	310		290		170				
8/30/2019	340		320		170		320		
3/16/2020	350		310		170				
3/17/2020							330		
7/11/2020		3.66							
7/13/2020				5.41					
7/14/2020						220			6.42
7/30/2020								1.34	
11/5/2020	350	4.6	370						
11/9/2020				10	160	220	330	1.7	
11/10/2020									8.1
3/8/2021	350	3.6							
3/9/2021			350	13	160	240	340	1.5	
3/10/2021									5.3
10/11/2021				11				1.3	
10/12/2021	360	4.1					310		
10/14/2021					150	240			6.1
10/21/2021			350 (D)						

Time Series

Constituent: Calcium (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		93	560		320
6/13/2018					300
6/14/2018		110	490		
7/23/2018			520		320
7/24/2018		100			
9/6/2018		98	510		310
10/2/2018		93	470		290
11/1/2018			460		280
11/2/2018		110			
12/6/2018		94	490		310
2/13/2019		95	470		300
4/4/2019		98	440		270
4/5/2019	440 (D)				
4/15/2019	390				
5/2/2019	400				
5/14/2019	420				
5/29/2019	450				
6/12/2019	440				
6/19/2019	450				
6/25/2019	450				
8/30/2019	460	90	460		310
3/17/2020	420	110	470		310
7/13/2020				10.5	
11/9/2020			470		
11/10/2020		99		13	
11/20/2020	420				290
3/8/2021					300
3/9/2021	460	120	480	13	
10/12/2021		84		9.4	300
10/20/2021	400 (D)				
10/21/2021			495 (D)		

Time Series

Constituent: Chloride (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-1R
4/25/2018	1300								
6/13/2018	1400								
7/23/2018	1200								
9/1/2018	1400								
10/2/2018	1400								
11/1/2018	1300								
12/6/2018	1300								
2/13/2019	1200								
3/16/2019			9.3	14					1900
3/27/2019			8.2 (D)	15 (D)					1900
4/3/2019			8.7 (D)	15 (D)					1900
4/4/2019	1200								
4/15/2019									1900
4/16/2019			8.7	14					
5/2/2019									1900
5/3/2019			9.3	15					
5/14/2019			8.8	15					2000
5/28/2019									1900
5/29/2019			8.8	14					
6/12/2019			8.8	15					2000
8/29/2019			8.1	14					
8/30/2019	1200								2100
3/16/2020									2600
3/17/2020	1100		8.2	14					
7/13/2020		4.73							
7/21/2020					1470	2920	2910		
7/30/2020								2830	
11/3/2020							4900		
11/4/2020					5400	3100		4700	4700
11/9/2020			9.1						
11/20/2020	1000	4.6		16					
3/8/2021	920	4.3			1600	3000	2900	2600	2500
3/10/2021			8.9	15					
10/11/2021			8.9	15					
10/12/2021	860	4.2							2300
10/15/2021						2800		3100	
10/20/2021					3400		4100 (D)		

Time Series

Constituent: Chloride (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-2D	APMW-3	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018	2800		11000		4000				
4/25/2018							8500		
6/14/2018	2700		11000		4000		8700		
7/24/2018	2800		11000		3900		8700		
9/1/2018	2800		10000		4200		8900		
10/1/2018	2800		11000		4200				
10/2/2018							9300		
11/2/2018	2700		11000		4000		8900		
12/6/2018					4000		9000		
12/7/2018	2700		12000						
2/13/2019	2800		9800		3800		8600		
4/4/2019							8600		
4/5/2019	2600		9900		3900				
8/30/2019	2500		9800		3600		8700		
3/16/2020	2500		10000		3400				
3/17/2020							8900		
7/11/2020		5.74							
7/13/2020				6.04					
7/14/2020						9830			10.5
7/30/2020								10.2	
11/5/2020	5100	5.4	9600						
11/9/2020				<1	3200	9300	9400	9.4	
11/10/2020									10
3/8/2021	2500	5.1							
3/9/2021			10000	49	3100	9100	8700	8.5	
3/10/2021									8.6
10/11/2021				17				7.5	
10/12/2021	2400	4.6					8300		
10/14/2021					2900	8400			10
10/21/2021			9400 (D)						

Time Series

Constituent: Chloride (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		3900	3400		2800
6/13/2018					3100
6/14/2018		4100	3600		
7/23/2018			3500		3000
7/24/2018		3900			
9/6/2018		4000	3600		3000
10/2/2018		4000	3800		3100
11/1/2018			3600		3000
11/2/2018		3800			
12/6/2018		4300	3700		3100
2/13/2019		4200	3500		3000
4/4/2019		3700	3500		3100
4/5/2019	4000 (D)				
4/15/2019	3400				
5/2/2019	4100				
5/14/2019	4200				
5/29/2019	4200				
6/12/2019	4200				
6/19/2019	4000				
6/25/2019	4000				
8/30/2019	4100	4000	3400		2800
3/17/2020	6000	4600	3700		3100
7/13/2020				9.1	
11/9/2020			3600		
11/10/2020		4200		9	
11/20/2020	4300				3100
3/8/2021					3100
3/9/2021	4000	4600	3600	8.2	
10/12/2021		3800		10	3000
10/20/2021	4050 (D)				
10/21/2021			3550 (D)		

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-1R
4/25/2018	<0.002								
6/13/2018	<0.002								
7/23/2018	<0.002								
9/1/2018	<0.002								
10/2/2018	<0.002								
11/1/2018	<0.002								
12/6/2018	<0.002								
2/13/2019	<0.002								
3/16/2019			<0.002	<0.002					<0.002
3/27/2019			<0.002 (D)	<0.002 (D)					<0.002
4/3/2019			<0.002 (D)	<0.002 (D)					<0.002
4/15/2019									<0.002
4/16/2019			<0.002	<0.002					
5/2/2019									<0.002
5/3/2019			<0.002	<0.002					
5/14/2019			<0.002	<0.002					<0.002
5/28/2019									<0.002
5/29/2019			<0.002	<0.002					
6/12/2019			0.0022	0.0022					0.0032
8/8/2019	<0.002		<0.002	<0.002					<0.002
7/13/2020		<0.002							
7/21/2020					<0.002	<0.002	0.00152 (J)		
7/30/2020								<0.002	
11/3/2020							<0.002		
11/4/2020					<0.002	<0.002		<0.002	<0.002
11/9/2020			<0.002						
11/20/2020	<0.002	<0.002		<0.002					
3/8/2021	<0.002	<0.002			<0.002	<0.002	<0.002	<0.002	<0.002
3/10/2021			0.0044	<0.002					
10/11/2021			<0.002	<0.002					
10/12/2021	<0.002	<0.002							<0.002
10/15/2021						<0.002		<0.002	
10/20/2021					<0.002		<0.002		

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-2D	APMW-3	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018	<0.002		<0.002		0.0016 (J)				
4/25/2018							0.0013 (J)		
6/14/2018	<0.002		<0.002		0.002 (J)		0.0012 (J)		
7/24/2018	<0.002		<0.002		0.0022 (J)		<0.002		
9/1/2018	<0.002		0.0014 (J)		0.0025		0.0024 (J)		
10/1/2018	<0.002		<0.002		0.0028				
10/2/2018							0.0015 (J)		
11/2/2018	<0.002		<0.002		0.0026		0.0014 (J)		
12/6/2018					0.0012 (J)		<0.002		
12/7/2018	<0.002		<0.002						
2/13/2019	<0.002		<0.002		0.0013 (J)		<0.002		
8/8/2019	<0.002		<0.002						
8/9/2019					<0.002		<0.002		
7/11/2020		0.00157 (J)							
7/13/2020				<0.002					
7/14/2020						<0.002			<0.002
7/30/2020								0.00378	
11/5/2020	<0.002	<0.002	<0.002						
11/9/2020				<0.002	<0.002	<0.002	<0.002	0.0019 (J)	
11/10/2020									<0.002
3/8/2021	<0.002	<0.002							
3/9/2021			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
3/10/2021									<0.002
10/11/2021				<0.002				<0.002	
10/12/2021	<0.002	<0.002					<0.002		
10/14/2021					<0.002	<0.002			<0.002
10/21/2021			<0.002						

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		0.0014 (J)	<0.002		<0.002
6/13/2018					<0.002
6/14/2018		0.0014 (J)	0.0032		
7/23/2018			<0.002		<0.002
7/24/2018		0.0014 (J)			
9/6/2018		0.0017 (J)	0.0014 (J)		<0.002
10/2/2018		0.0013 (J)	<0.002		<0.002
11/1/2018			<0.002		<0.002
11/2/2018		0.0014 (J)			
12/6/2018		<0.002	<0.002		<0.002
2/13/2019		<0.002	<0.002		<0.002
4/5/2019	<0.002 (D)				
4/15/2019	<0.002				
5/2/2019	<0.002				
5/14/2019	<0.002				
5/29/2019	<0.002				
6/12/2019	<0.002				
6/19/2019	<0.002				
6/25/2019	<0.002				
8/8/2019					<0.002
8/9/2019	<0.002	<0.002	<0.002		
7/13/2020				<0.002	
11/9/2020			<0.002		
11/10/2020		<0.002		<0.002	
11/20/2020	<0.002				<0.002
3/8/2021					<0.002
3/9/2021	<0.002	0.0022	<0.002	<0.002	
10/12/2021		<0.002		<0.002	<0.002
10/20/2021	<0.002				
10/21/2021			<0.002		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-1R
4/25/2018	<0.0025								
6/13/2018	<0.0025								
7/23/2018	<0.0025								
9/1/2018	<0.0025								
10/2/2018	<0.0025								
11/1/2018	<0.0025								
12/6/2018	<0.0025								
2/13/2019	<0.0025								
3/16/2019			<0.0025	<0.0025					0.00057 (J)
3/27/2019			<0.0025 (D)	<0.0025 (D)					0.00044 (J)
4/3/2019			<0.0025 (D)	<0.0025 (D)					0.0004 (J)
4/15/2019									0.00042 (J)
4/16/2019			<0.0025	<0.0025					
5/2/2019									<0.0025
5/3/2019			<0.0025	<0.0025					
5/14/2019			<0.0025	<0.0025					0.00044 (J)
5/28/2019									<0.0025
5/29/2019			<0.0025	<0.0025					
6/12/2019			<0.0025	<0.0025					0.00037 (J)
8/8/2019	0.00012 (J)		<0.0025	<0.0025					0.00017 (J)
8/29/2019			<0.0025	<0.0025					
8/30/2019	8.2E-05 (J)								0.00017 (J)
3/16/2020									<0.0025
3/17/2020	<0.0025		<0.0025	<0.0025					
7/13/2020		<0.0025							
7/21/2020					<0.0025	<0.0025	<0.0025		
7/30/2020								<0.0025	
11/3/2020							<0.0025		
11/4/2020					<0.0025	<0.0025		<0.0025	<0.0025
11/9/2020			0.00022 (J)						
11/20/2020	<0.0025	<0.0025		<0.0025					
3/8/2021	0.00033 (J)	0.00028 (J)			<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
3/10/2021			0.00031 (J)	<0.0025					
10/11/2021			0.00044 (J)	<0.0025					
10/12/2021	<0.0025	<0.0025							<0.0025
10/15/2021						<0.0025		0.00016 (J)	
10/20/2021					<0.0025		<0.0025		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-2D	APMW-3	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018	<0.0025		0.0026		0.0033				
4/25/2018							<0.0025		
6/14/2018	<0.0025		0.0023 (J)		0.0032		<0.0025		
7/24/2018	<0.0025		0.0026		0.0036		<0.0025		
9/1/2018	<0.0025		0.0023 (J)		0.0039		<0.0025		
10/1/2018	<0.0025		0.0028		0.0029				
10/2/2018							<0.0025		
11/2/2018	<0.0025		0.0027		0.0034		<0.0025		
12/6/2018					0.0032		<0.0025		
12/7/2018	<0.0025		0.0028						
2/13/2019	<0.0025		0.0028		0.0043		<0.0025		
8/8/2019	<0.0025		0.0019						
8/9/2019					0.0034		7.5E-05 (J)		
8/30/2019	<0.0025		0.0025		0.0034		7.9E-05 (J)		
3/16/2020	<0.0025		0.0022		0.0039				
3/17/2020							<0.0025		
7/11/2020		<0.0025							
7/13/2020				<0.0025					
7/14/2020						0.00381			<0.0025
7/30/2020								0.0011 (J)	
11/5/2020	<0.0025	<0.0025	0.003						
11/9/2020				0.00021 (J)	0.0037	0.0031	<0.0025	0.00071 (J)	
11/10/2020									<0.0025
3/8/2021	<0.0025	<0.0025							
3/9/2021			0.0034	<0.0025	0.0041	0.0023 (J)	<0.0025	0.00041 (J)	
3/10/2021									0.00021 (J)
10/11/2021				<0.0025				0.0003 (J)	
10/12/2021	<0.0025	<0.0025					<0.0025		
10/14/2021					0.0032	0.0037			<0.0025
10/21/2021			0.004						

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		<0.0025	<0.0025		<0.0025
6/13/2018					<0.0025
6/14/2018		<0.0025	<0.0025		
7/23/2018			<0.0025		<0.0025
7/24/2018		<0.0025			
9/6/2018		0.00043 (J)	<0.0025		<0.0025
10/2/2018		<0.0025	<0.0025		<0.0025
11/1/2018			<0.0025		<0.0025
11/2/2018		<0.0025			
12/6/2018		<0.0025	<0.0025		<0.0025
2/13/2019		<0.0025	<0.0025		<0.0025
4/5/2019	0.0049 (D)				
4/15/2019	0.0045				
5/2/2019	0.0012 (J)				
5/14/2019	0.0024 (J)				
5/29/2019	0.0022 (J)				
6/12/2019	0.002 (J)				
6/19/2019	0.004 (J)				
6/25/2019	0.0014 (J)				
8/8/2019					8.4E-05 (J)
8/9/2019	0.0022	0.00025 (J)	<0.0025		
8/30/2019	0.0039	0.00023 (J)	<0.0025		8.9E-05 (J)
3/17/2020	0.0029	0.00024 (J)	<0.0025		<0.0025
7/13/2020				0.00121 (J)	
11/9/2020			<0.0025		
11/10/2020		0.00024 (J)		<0.0025	
11/20/2020	0.0024 (J)				<0.0025
3/8/2021					<0.0025
3/9/2021	0.0017 (J)	0.00025 (J)	<0.0025	<0.0025	
10/12/2021		0.00028 (J)		<0.0025	<0.0025
10/20/2021	0.0032				
10/21/2021			<0.0025		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-1R
4/25/2018	2.66								
6/13/2018	2.91								
7/23/2018	3.49								
9/1/2018	3.15								
10/2/2018	3.38								
11/1/2018	2.19								
12/6/2018	2.69								
2/13/2019	2.97								
3/16/2019			0.421	0.765					5.87
3/27/2019			0.499	0.306 (U)					6.56
4/3/2019			0.526	1.12					7.03
4/15/2019									6.75
4/16/2019			0.73	0.447					
5/2/2019									6.82
5/3/2019			0.32 (U)	0.357					
5/14/2019			0.431 (U)	0.342 (U)					6.96
5/28/2019									4.12
5/29/2019			0.205 (U)	0.519 (U)					
6/12/2019			<5	<5					8.8
8/8/2019	2.16		0.535	0.262 (U)					7.52
8/29/2019			0.19 (U)	0.253 (U)					
8/30/2019	2.19								7.98
3/16/2020									10.6
3/17/2020	2.94		0.596	0.703					
7/13/2020		0.272 (U)							
7/21/2020					2.72	4.86	3.28		
7/30/2020								2.38	
11/3/2020							1.39		
11/4/2020					1.59	3.79		1.53	8.99
11/9/2020			0.0786 (U)						
11/20/2020	3.47	-0.129 (U)		0.199 (U)					
3/8/2021	2.86	0.73			3.18	5.04	1.91	2.54	14.2
3/10/2021			0.389	0.594					
10/11/2021			0.645	0.994					
10/12/2021	3.57	0.769							12
10/15/2021						3.57		1.83	
10/20/2021					2.8		1.49		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-2D	APMW-3	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018	21.8		5.84		2.4				
4/25/2018							3.67		
6/14/2018	20.9		6.37		2.5		4.18		
7/24/2018	19.2		7.22		3.01		4.95		
9/1/2018	17.5		5.46		2.3		4.44		
10/1/2018	19.9		8.54		3.49				
10/2/2018							4.79		
11/2/2018	17.4		6.02		1.94		4		
12/6/2018					2.68		5.01		
12/7/2018	18.5		6.26						
2/13/2019	19.2		6.67		2.05		4.53		
8/8/2019	18.7		6.41						
8/9/2019					2.09		3.81		
8/30/2019	16.5		5.45		1.24		2.82		
3/16/2020	18.8		6.5		1.71				
3/17/2020							4.23		
7/11/2020		0.179 (U)							
7/13/2020				0.857					
7/14/2020						9.33			0.591
7/30/2020								0.29 (UD)	
11/5/2020	15.3	0.158 (U)	5.33						
11/9/2020				0.501	2	6.03	3.42	0.381 (U)	
11/10/2020									0.113 (U)
3/8/2021	21.4	0.164 (U)							
3/9/2021			2.68	0.605	2.08	8.34	4.01	0.24 (U)	
3/10/2021									0.186 (U)
10/11/2021				1.6				0.194 (U)	
10/12/2021	20.6	-0.0129 (U)					3.74		
10/14/2021					2.56	8.45			1.24
10/21/2021			5.6						

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		5.8	3.26		6.49
6/13/2018					6.43
6/14/2018		5.94	3.41		
7/23/2018			4.02		6.82
7/24/2018		6.56			
9/6/2018		7.39	3.86		7.4
10/2/2018		8.19	4.63		7.43
11/1/2018			3.37		6.67
11/2/2018		5.87			
12/6/2018		6.64	3.92		6.92
2/13/2019		6.19	3.66		6.91
4/5/2019	2.85				
4/15/2019	3.24				
5/2/2019	3				
5/14/2019	3.2				
5/29/2019	2.88				
6/12/2019	3.04				
6/19/2019	3.59				
6/25/2019	3.61				
8/8/2019					6.71
8/9/2019	3.14	6.86	3.52		
8/30/2019	2.52	6.63	3.96		7.32
3/17/2020	3.16	5.37	3.43		7.36
7/13/2020				0.898	
11/9/2020			2.55		
11/10/2020		6.91		0.293 (U)	
11/20/2020	3.32				8.11
3/8/2021					9.26
3/9/2021	0.234 (U)	2.66	3.52	-0.149 (U)	
10/12/2021		7.77		1.07	8.92
10/20/2021	2.8				
10/21/2021			4.05		

Time Series

Constituent: Fluoride (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-1R
4/25/2018	0.69								
6/13/2018	0.64								
7/23/2018	0.76								
9/1/2018	0.81								
10/2/2018	0.78								
11/1/2018	0.88								
12/6/2018	0.75								
2/13/2019	0.72								
3/16/2019			0.047 (J)	0.041 (J)					<5
3/27/2019			<5 (D)	0.49 (D)					<5
4/3/2019			<5 (D)	0.086 (JD)					<5
4/4/2019	0.63								
4/15/2019									0.14 (J)
4/16/2019			0.034 (J)	0.055 (J)					
5/2/2019									0.13 (J)
5/3/2019			0.042 (J)	0.058 (J)					
5/14/2019			0.039 (J)	0.071 (J)					<5
5/28/2019									0.16 (J)
5/29/2019			<5	0.042 (J)					
6/12/2019			<5	0.037 (J)					<5
8/8/2019	0.58		0.051 (J)	0.072 (J)					0.21 (J)
8/29/2019			0.061 (J)	0.065 (J)					
8/30/2019	0.5								0.21 (J)
3/16/2020									<5
3/17/2020	0.38		<5	0.036 (J)					
7/13/2020		0.24							
7/21/2020					0.09 (J)	0.07 (J)	0.17		
7/30/2020								0.19	
11/3/2020							<5		
11/4/2020					0.24 (J)	<5		<5	<5
11/9/2020			<5						
11/20/2020	0.81	0.13 (J)		<5					
3/8/2021	0.66	0.23			0.17 (J)	<5	0.41 (J)	0.28 (J)	<5
3/10/2021			0.056 (J)	0.052 (J)					
10/11/2021			0.041 (J)	0.079 (J)					
10/12/2021	0.66	0.22							0.27 (J)
10/15/2021						0.19 (J)		0.44 (J)	
10/20/2021					0.14 (J)		0.25 (J)		

Time Series

Constituent: Fluoride (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-2D	APMW-3	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018	0.06 (J)		0.33		0.52				
4/25/2018							0.09 (J)		
6/14/2018	0.06 (J)		0.37		0.51		0.09 (J)		
7/24/2018	0.07 (J)		0.42		0.52		0.09 (J)		
9/1/2018	0.08 (J)		0.45		0.54		0.1		
10/1/2018	0.07 (J)		0.39		0.54				
10/2/2018							0.09 (J)		
11/2/2018	0.08 (J)		0.42		0.58		0.11		
12/6/2018					0.51		1.4 (o)		
12/7/2018	4.3 (o)		0.64						
2/13/2019	0.05 (J)		0.35		0.48		0.07 (J)		
4/4/2019							<5		
4/5/2019	0.14 (J)		0.7 (J)		0.31 (J)				
8/8/2019	0.19 (J)		0.8 (J)						
8/9/2019					0.51		<5		
8/30/2019	0.17 (J)		<5		0.54 (J)		<5		
3/16/2020	<5		<5		<5				
3/17/2020							<5		
7/11/2020		0.24							
7/13/2020				0.17					
7/14/2020						0.14			0.22
7/30/2020								0.17	
11/5/2020	<5	0.15 (J)	<5						
11/9/2020				0.18 (J)	<5	<5	<5	0.17 (J)	
11/10/2020									0.21
3/8/2021	<5	0.2							
3/9/2021			0.87 (J)	0.18 (J)	0.55 (J)	<5	<5	0.17 (J)	
3/10/2021									0.18 (J)
10/11/2021				0.14 (J)				0.18 (J)	
10/12/2021	0.22 (J)	0.18 (J)					<5		
10/14/2021					0.5 (J)	<5			0.19 (J)
10/21/2021			<5						

Time Series

Constituent: Fluoride (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		0.11	1		0.06 (J)
6/13/2018					0.06 (J)
6/14/2018		0.12	1		
7/23/2018			1		0.06 (J)
7/24/2018		0.12			
9/6/2018		0.13	1.1		0.06 (J)
10/2/2018		0.13	1		0.07 (J)
11/1/2018			1.1		0.07 (J)
11/2/2018		0.14			
12/6/2018		0.13	0.98		0.21 (o)
2/13/2019		0.1	0.98		0.07 (J)
4/4/2019		<5	0.58 (J)		<5
4/5/2019	<5 (D)				
4/15/2019	<5				
5/2/2019	<5				
5/14/2019	<5				
5/29/2019	<5				
6/12/2019	<5				
6/19/2019	<5				
6/25/2019	0.32 (J)				
8/8/2019					0.2 (J)
8/9/2019	<5	0.22 (J)	0.9 (J)		
8/30/2019	0.27 (J)	0.41 (J)	0.85 (J)		0.18 (J)
3/17/2020	<5	1.6	0.52 (J)		<5
7/13/2020				0.15	
11/9/2020			0.74 (J)		
11/10/2020		<5		0.22	
11/20/2020	<5				<5
3/8/2021					<5
3/9/2021	<5	0.26 (J)	1.1 (J)	0.17 (J)	
10/12/2021		<5		0.15 (J)	<5
10/20/2021	0.29 (J)				
10/21/2021			1 (J)		

Time Series

Constituent: Lead (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-1R
4/25/2018	<0.001								
6/13/2018	<0.001								
7/23/2018	<0.001								
9/1/2018	<0.001								
10/2/2018	<0.001								
11/1/2018	0.0011 (J)								
12/6/2018	0.0006 (J)								
2/13/2019	<0.001								
3/16/2019			<0.001	<0.001					<0.001
3/27/2019			<0.001 (D)	<0.001 (D)					<0.001
4/3/2019			<0.001 (D)	<0.001 (D)					<0.001
4/15/2019									<0.001
4/16/2019			<0.001	<0.001					
5/2/2019									<0.001
5/3/2019			<0.001	<0.001					
5/14/2019			<0.001	<0.001					<0.001
5/28/2019									<0.001
5/29/2019			<0.001	<0.001					
6/12/2019			<0.001	<0.001					<0.001
8/8/2019	<0.001		<0.001	<0.001					<0.001
8/29/2019			<0.001	0.00017 (J)					
8/30/2019	<0.001								<0.001
3/16/2020									<0.001
3/17/2020	<0.001		<0.001	<0.001					
7/13/2020		0.00116 (J)							
7/21/2020					<0.001	<0.001	<0.001		
7/30/2020								<0.001	
11/3/2020							<0.001		
11/4/2020					<0.001	<0.001		<0.001	<0.001
11/9/2020			<0.001						
11/20/2020	<0.001	0.00089 (J)		<0.001					
3/8/2021	0.00016 (J)	0.00086 (J)			<0.001	<0.001	<0.001	<0.001	<0.001
3/10/2021			<0.001	<0.001					
10/11/2021			<0.001	<0.001					
10/12/2021	<0.001	0.00063 (J)							<0.001
10/15/2021						<0.001		<0.001	
10/20/2021					<0.001		<0.001		

Time Series

Constituent: Lead (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-2D	APMW-3	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018	<0.001		<0.001		<0.001				
4/25/2018							<0.001		
6/14/2018	<0.001		<0.001		<0.001		<0.001		
7/24/2018	<0.001		<0.001		<0.001		<0.001		
9/1/2018	<0.001		<0.001		<0.001		<0.001		
10/1/2018	<0.001		<0.001		<0.001				
10/2/2018							<0.001		
11/2/2018	<0.001		0.00048 (J)		0.00062 (J)		0.0011 (J)		
12/6/2018					<0.001		0.00041 (J)		
12/7/2018	<0.001		<0.001						
2/13/2019	<0.001		<0.001		<0.001		0.00036 (J)		
8/8/2019	<0.001		<0.001						
8/9/2019					<0.001		<0.001		
8/30/2019	<0.001		<0.001		<0.001		<0.001		
3/16/2020	<0.001		<0.001		<0.001				
3/17/2020							<0.001		
7/11/2020		0.000555 (J)							
7/13/2020				<0.001					
7/14/2020						<0.001			<0.001
7/30/2020								0.00203	
11/5/2020	<0.001	0.00024 (J)	<0.001						
11/9/2020				<0.001	<0.001	<0.001	<0.001	0.00099 (J)	
11/10/2020									<0.001
3/8/2021	<0.001	0.00016 (J)							
3/9/2021			<0.001	<0.001	<0.001	<0.001	<0.001	0.00026 (J)	
3/10/2021									<0.001
10/11/2021				<0.001				0.00019 (J)	
10/12/2021	<0.001	0.0002 (J)					<0.001		
10/14/2021					<0.001	<0.001			<0.001
10/21/2021			<0.001						

Time Series

Constituent: Lead (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		<0.001	<0.001		<0.001
6/13/2018					<0.001
6/14/2018		<0.001	<0.001		
7/23/2018			<0.001		<0.001
7/24/2018		<0.001			
9/6/2018		<0.001	<0.001		<0.001
10/2/2018		<0.001	<0.001		<0.001
11/1/2018			0.0016		<0.001
11/2/2018		0.0019			
12/6/2018		<0.001	0.0013		0.00039 (J)
2/13/2019		<0.001	<0.001		<0.001
4/5/2019	<0.001 (D)				
4/15/2019	<0.001				
5/2/2019	<0.001				
5/14/2019	<0.001				
5/29/2019	<0.001				
6/12/2019	<0.001				
6/19/2019	<0.001				
6/25/2019	<0.001				
8/8/2019					0.00013 (J)
8/9/2019	<0.001	<0.001	<0.001		
8/30/2019	0.00032 (J)	<0.001	<0.001		<0.001
3/17/2020	<0.001	<0.001	<0.001		<0.001
7/13/2020				<0.001	
11/9/2020			<0.001		
11/10/2020		<0.001		<0.001	
11/20/2020	<0.001				<0.001
3/8/2021					<0.001
3/9/2021	<0.001	<0.001	<0.001	<0.001	
10/12/2021		<0.001		<0.001	<0.001
10/20/2021	<0.001				
10/21/2021			<0.001		

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-1R
4/25/2018	0.021								
6/13/2018	0.013								
7/23/2018	0.015								
9/1/2018	0.015								
10/2/2018	0.017								
11/1/2018	0.038								
12/6/2018	0.011								
2/13/2019	0.012								
3/16/2019			0.0088	0.012					0.013
3/27/2019			0.01 (D)	0.012 (D)					0.014
4/3/2019			0.0068 (D)	0.013 (D)					0.01
4/15/2019									0.012
4/16/2019			0.0081	0.012					
5/2/2019									0.013
5/3/2019			0.01	0.015					
5/14/2019			0.011	0.015					0.011
5/28/2019									<0.005
5/29/2019			0.0062	0.015					
6/12/2019			0.0099	0.013					0.012
8/8/2019	0.018		0.012	0.016					0.012
8/29/2019			0.0067	0.011					
8/30/2019	0.01								0.011
3/16/2020									0.013
3/17/2020	0.017		0.014	0.017					
7/13/2020		0.0136							
7/21/2020					0.00196 (J)	<0.005	0.00623		
7/30/2020								0.00523	
11/3/2020							0.03		
11/4/2020					0.016	<0.005		0.029	0.014
11/9/2020			0.011						
11/20/2020	0.013	0.011		0.015					
3/8/2021	0.01	0.022			0.0042 (J)	<0.005	0.008	0.0086	0.013
3/10/2021			0.012	0.017					
10/11/2021			0.0089	0.015					
10/12/2021	0.0056	0.019							0.014
10/15/2021						<0.005		0.009	
10/20/2021					0.0038 (J)		0.0091 (D)		

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-2D	APMW-3	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018	0.029		0.11		0.079				
4/25/2018							0.069		
6/14/2018	0.023		0.073		0.055		0.046		
7/24/2018	0.023		0.079		0.057		0.049		
9/1/2018	0.022		0.088		0.054		0.045		
10/1/2018	0.026		0.091		0.063				
10/2/2018							0.052		
11/2/2018	0.024 (J)		0.081		0.077		0.074		
12/6/2018					0.054		0.044		
12/7/2018	0.022		0.072						
2/13/2019	0.02		0.071		0.053		0.045		
8/8/2019	0.031		0.076						
8/9/2019					0.061		0.049		
8/30/2019	0.022		0.072		0.052		0.044		
3/16/2020	0.03		0.07		0.053				
3/17/2020							0.044		
7/11/2020		0.0103							
7/13/2020				0.00778					
7/14/2020						0.0522			0.00696
7/30/2020								0.00791	
11/5/2020	0.031	0.01	0.07						
11/9/2020				0.006	0.049	0.043	0.044	0.0076	
11/10/2020									0.0063
3/8/2021	0.03	0.0091							
3/9/2021			0.075	0.0098	0.051	0.044	0.048	0.0099	
3/10/2021									0.0059
10/11/2021				0.02				0.0075	
10/12/2021	0.028	0.0079					0.039		
10/14/2021					0.052	0.11			0.0061
10/21/2021			0.0665 (D)						

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		0.004 (J)	0.13		0.0039 (J)
6/13/2018					0.0027 (J)
6/14/2018		0.0026 (J)	0.085		
7/23/2018			0.09		0.0041 (J)
7/24/2018		0.003 (J)			
9/6/2018		0.0029 (J)	0.099		0.0035 (J)
10/2/2018		0.0021 (J)	0.095		0.004 (J)
11/1/2018			0.16		0.018 (o)
11/2/2018		0.014 (o)			
12/6/2018		<0.005	0.082		<0.005
2/13/2019		0.0018 (J)	0.08		0.0026 (J)
4/5/2019	0.051 (D)				
4/15/2019	0.054				
5/2/2019	0.055				
5/14/2019	0.047				
5/29/2019	0.055				
6/12/2019	0.062				
6/19/2019	0.059				
6/25/2019	0.052				
8/8/2019					0.0053
8/9/2019	0.063	<0.005	0.086		
8/30/2019	0.059	<0.005	0.068		<0.005
3/17/2020	0.056	0.0071	0.08		0.0077
7/13/2020				<0.005	
11/9/2020			0.08		
11/10/2020		0.0048 (J)		0.0044 (J)	
11/20/2020	0.055				0.0035 (J)
3/8/2021					0.0045 (J)
3/9/2021	0.057	0.004 (J)	0.073	0.005	
10/12/2021		0.0036 (J)		<0.005	<0.005
10/20/2021	0.0535 (D)				
10/21/2021			0.0735 (D)		

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-1R
4/25/2018	<0.0002								
6/13/2018	<0.0002								
7/23/2018	<0.0002								
9/1/2018	8.5E-05 (J)								
10/2/2018	<0.0002								
11/1/2018	<0.0002								
12/6/2018	<0.0002								
2/13/2019	<0.0002								
3/16/2019			<0.0002	9.7E-05 (J)					<0.0002
3/27/2019			<0.0002 (D)	<0.0002 (D)					<0.0002
4/3/2019			<0.0002 (D)	<0.0002 (D)					<0.0002
4/15/2019									0.00015 (J)
4/16/2019			<0.0002	<0.0002					
5/2/2019									<0.0002
5/3/2019			<0.0002	<0.0002					
5/14/2019			7.1E-05 (J)	<0.0002					<0.0002
5/28/2019									<0.0002
5/29/2019			<0.0002	<0.0002					
6/12/2019			<0.0002	<0.0002					<0.0002
8/8/2019	<0.0002		<0.0002	<0.0002					<0.0002
7/13/2020		<0.0002							
7/21/2020					<0.0002	<0.0002	<0.0002		
7/30/2020								<0.0002	
11/3/2020							<0.0002		
11/4/2020					<0.0002	<0.0002		<0.0002	<0.0002
11/9/2020			<0.0002						
11/20/2020	<0.0002	<0.0002		<0.0002					
3/8/2021	<0.0002	<0.0002			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
3/10/2021			<0.0002	<0.0002					
10/11/2021			<0.0002	<0.0002					
10/12/2021	<0.0002	<0.0002							<0.0002
10/15/2021						<0.0002		<0.0002	
10/20/2021					<0.0002		<0.0002		

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-2D	APMW-3	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018	<0.0002		<0.0002		<0.0002				
4/25/2018							<0.0002		
6/14/2018	<0.0002		<0.0002		<0.0002		<0.0002		
7/24/2018	<0.0002		<0.0002		<0.0002		<0.0002		
9/1/2018	<0.0002		<0.0002		<0.0002		9.3E-05 (J)		
10/1/2018	<0.0002		<0.0002		<0.0002				
10/2/2018							<0.0002		
11/2/2018	<0.0002		<0.0002		<0.0002		<0.0002		
12/6/2018					<0.0002		<0.0002		
12/7/2018	<0.0002		<0.0002						
2/13/2019	<0.0002		<0.0002		<0.0002		<0.0002		
8/8/2019	<0.0002		<0.0002						
8/9/2019					<0.0002		<0.0002		
7/11/2020		<0.0002							
7/13/2020				<0.0002					
7/14/2020						<0.0002			<0.0002
7/30/2020								<0.0002	
11/5/2020	<0.0002	<0.0002	<0.0002						
11/9/2020				<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
11/10/2020									<0.0002
3/8/2021	<0.0002	<0.0002							
3/9/2021			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
3/10/2021									<0.0002
10/11/2021				<0.0002				<0.0002	
10/12/2021	<0.0002	<0.0002					<0.0002		
10/14/2021					<0.0002	<0.0002			<0.0002
10/21/2021			<0.0002						

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		<0.0002	<0.0002		<0.0002
6/13/2018					<0.0002
6/14/2018		<0.0002	<0.0002		
7/23/2018			<0.0002		<0.0002
7/24/2018		<0.0002			
9/6/2018		9E-05 (J)	7.7E-05 (J)		0.00035
10/2/2018		<0.0002	<0.0002		<0.0002
11/1/2018			<0.0002		<0.0002
11/2/2018		<0.0002			
12/6/2018		<0.0002	<0.0002		<0.0002
2/13/2019		<0.0002	<0.0002		<0.0002
4/5/2019	<0.0002 (D)				
4/15/2019	<0.0002				
5/2/2019	<0.0002				
5/14/2019	<0.0002				
5/29/2019	<0.0002				
6/12/2019	<0.0002				
6/19/2019	<0.0002				
6/25/2019	<0.0002				
8/8/2019					<0.0002
8/9/2019	<0.0002	<0.0002	<0.0002		
7/13/2020				<0.0002	
11/9/2020			<0.0002		
11/10/2020		<0.0002		<0.0002	
11/20/2020	<0.0002				<0.0002
3/8/2021					<0.0002
3/9/2021	<0.0002	<0.0002	<0.0002	<0.0002	
10/12/2021		<0.0002		<0.0002	<0.0002
10/20/2021	<0.0002				
10/21/2021			<0.0002		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-1R
4/25/2018	0.11								
6/13/2018	0.09								
7/23/2018	0.11								
9/1/2018	0.11								
10/2/2018	0.1								
11/1/2018	0.11								
12/6/2018	0.1								
2/13/2019	0.085								
3/16/2019			<0.015	<0.015					<0.015
3/27/2019			<0.015 (D)	<0.015 (D)					<0.015
4/3/2019			<0.015 (D)	<0.015 (D)					<0.015
4/15/2019									<0.015
4/16/2019			<0.015	<0.015					
5/2/2019									<0.015
5/3/2019			<0.015	<0.015					
5/14/2019			<0.015	<0.015					<0.015
5/28/2019									<0.015
5/29/2019			<0.015	<0.015					
6/12/2019			<0.015	<0.015					<0.015
8/8/2019	0.11		<0.015	<0.015					<0.015
8/29/2019			<0.015	<0.015					
8/30/2019	0.078								<0.015
3/16/2020									<0.015
3/17/2020	0.081		<0.015	<0.015					
7/13/2020		0.00884 (J)							
7/21/2020					<0.015	<0.015	<0.015		
7/30/2020								<0.015	
11/3/2020							0.00082 (J)		
11/4/2020					<0.015	<0.015		0.0009 (J)	<0.015
11/9/2020			<0.015						
11/20/2020	0.059	0.017		<0.015					
3/8/2021	0.055	0.0096 (J)			<0.015	<0.015	<0.015	<0.015	<0.015
3/10/2021			<0.015	<0.015					
10/11/2021			<0.015	<0.015					
10/12/2021	0.033	0.0099 (J)							<0.015
10/15/2021						<0.015		<0.015	
10/20/2021					<0.015		<0.015 (D)		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-2D	APMW-3	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018	<0.015		0.073		0.011 (J)				
4/25/2018							0.056		
6/14/2018	<0.015		0.068		0.0083 (J)		0.048		
7/24/2018	<0.015		0.065		0.0075 (J)		0.078		
9/1/2018	<0.015		0.05		0.0082 (J)		0.081		
10/1/2018	<0.015		0.061		0.0088 (J)				
10/2/2018							0.07		
11/2/2018	<0.015		0.062		0.0083 (J)		0.1		
12/6/2018					0.0093 (J)		0.069		
12/7/2018	<0.015		0.062						
2/13/2019	<0.015		0.061		0.0093 (J)		0.1		
8/8/2019	0.00079 (J)		0.073						
8/9/2019					0.012		0.15		
8/30/2019	<0.015		0.065		0.011		0.088		
3/16/2020	<0.015		0.072		0.01				
3/17/2020							0.079		
7/11/2020		0.00558 (J)							
7/13/2020				<0.015					
7/14/2020						0.257			<0.015
7/30/2020								<0.015	
11/5/2020	<0.015	0.0038 (J)	0.067						
11/9/2020				0.0022 (J)	0.0084 (J)	0.35	0.11	0.0012 (J)	
11/10/2020									0.00081 (J)
3/8/2021	<0.015	0.0018 (J)							
3/9/2021			0.076	0.0012 (J)	0.0059 (J)	0.37	0.072	0.00091 (J)	
3/10/2021									0.0011 (J)
10/11/2021				<0.015				0.0008 (J)	
10/12/2021	<0.015	0.0011 (J)					0.074		
10/14/2021					0.0042 (J)	0.23			0.0012 (J)
10/21/2021			0.0705 (D)						

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		0.00096 (J)	0.18		<0.015
6/13/2018					<0.015
6/14/2018		0.0062 (J)	0.17		
7/23/2018			0.17		<0.015
7/24/2018		0.0063 (J)			
9/6/2018		<0.015	0.15		<0.015
10/2/2018		<0.015	0.15		0.0009 (J)
11/1/2018			0.16		<0.015
11/2/2018		0.0066 (J)			
12/6/2018		0.0062 (J)	0.14		<0.015
2/13/2019		0.0047 (J)	0.13		<0.015
4/5/2019	0.41 (D)				
4/15/2019	0.4				
5/2/2019	0.3				
5/14/2019	0.36				
5/29/2019	0.4				
6/12/2019	0.34				
6/19/2019	0.41				
6/25/2019	0.37				
8/8/2019					<0.015
8/9/2019	0.48	<0.015	0.12		
8/30/2019	0.42	<0.015	0.11		0.00093 (J)
3/17/2020	0.47	<0.015	0.094		<0.015
7/13/2020				<0.015	
11/9/2020			0.072		
11/10/2020		<0.015		0.00067 (J)	
11/20/2020	0.42				<0.015
3/8/2021					<0.015
3/9/2021	0.48	<0.015	0.069	<0.015	
10/12/2021		<0.015		<0.015	<0.015
10/20/2021	0.45 (D)				
10/21/2021			0.056 (D)		

Time Series

Constituent: pH (SU) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-1R
4/25/2018	6.7								
6/13/2018	6.64								
7/23/2018	6.76								
9/1/2018	6.9								
10/2/2018	6.77								
11/1/2018	6.89								
12/6/2018	6.89								
2/13/2019	6.81								
3/16/2019			6.97	6.44					6.67
3/27/2019			6.7	6.38					6.59
4/3/2019			6.45	6.19					6.56
4/4/2019	6.74								
4/15/2019									6.68
4/16/2019			6.52	6.3					
5/2/2019									6.78
5/3/2019			6.37	6.33					
5/14/2019			6.57	6.64					6.7
5/28/2019									6.56
5/29/2019			6.31	6.6					
6/12/2019			6.41	6.31					6.69
8/8/2019	6.84		6.29	6.12					6.68
8/29/2019			6.2	6.24					
8/30/2019	7.09								6.72
3/16/2020									6.51
3/17/2020	6.93		6.2	6.2					
7/13/2020		8.94							
7/21/2020					6.01	6.08	6.51		
7/30/2020								6.48	
11/3/2020							6.51		
11/4/2020					6.01	6.03		6.58	6.45
11/9/2020			6.21						
11/20/2020	6.94	8.86		6.31					
3/8/2021	7.61	9.38			5.97	5.99	6.41	6.48	6.4
3/10/2021			6.29						
10/11/2021			6.13	6.08					
10/12/2021	6.75	8.92							6.43
10/15/2021						5.97		6.55	
10/20/2021					5.89		6.54		

Time Series

Constituent: pH (SU) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-2D	APMW-3	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018	5.89		6.46		6.31				
4/25/2018							6.04		
6/14/2018	5.96		6.5		6.28		6.29		
7/24/2018	6.03		6.6		6.34		6.35		
9/1/2018	6.23		6.74		6.33		6.38		
10/1/2018	5.94		6.51		6.36				
10/2/2018							6.47		
11/2/2018	5.98		6.55		6.43		6.42		
12/6/2018					6.43		6.42		
12/7/2018	5.98		6.55						
2/13/2019	6.09		6.69		6.48		6.42		
4/4/2019							6.35		
4/5/2019	6.03		6.7		6.33				
8/8/2019	6.03		6.7						
8/9/2019					6.69		6.42		
8/30/2019	6.1		6.75		6.68		6.47		
3/16/2020	5.91		6.61		6.71				
3/17/2020							6.32		
7/11/2020		7.84							
7/13/2020				6.88					
7/14/2020						6.89			7.07
7/30/2020								6.67	
11/5/2020	5.92	7.79	6.58						
11/9/2020				6.86	6.37	6.89	6.37	6.71	
3/8/2021	5.97								
3/9/2021			6.48	7.02	6.27	6.83	6.32	6.62	
3/10/2021									6.81
10/11/2021				6.76				6.61	
10/12/2021	5.89	7.57					6.55		
10/14/2021					6.41	6.67			6.76
10/21/2021			6.54						

Time Series

Constituent: pH (SU) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		6.31	6.69		6.19
6/13/2018					6.18
6/14/2018		6.25	6.66		
7/23/2018			6.7		6.19
7/24/2018		6.34			
9/6/2018		6.29	6.66		6.13
10/2/2018		6.28	6.63		6.13
11/1/2018			6.75		6.25
11/2/2018		6.4			
12/6/2018		6.4	6.75		6.25
2/13/2019		6.37	6.7		6.24
4/4/2019		6.33	6.72		6.17
4/5/2019	6.12				
4/15/2019	6.14				
5/2/2019	6.19				
5/14/2019	6.12				
5/29/2019	6.11				
6/12/2019	6.09				
6/19/2019	6.1				
6/25/2019	6.18				
8/8/2019					6.23
8/9/2019	6.03	6.34	6.74		
8/30/2019	5.92	6.31	6.68		6.1
3/17/2020	5.97	6.57	6.69		
7/13/2020				6.77	
11/9/2020			6.74		
11/10/2020		6.37		7.06	
11/20/2020	6.09				6.23
3/8/2021					7
3/9/2021	6.13	6.39	6.74	7.1	
10/12/2021		6.51		6.95	6.16
10/20/2021	5.94				
10/21/2021			6.74		

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-1R
4/25/2018	0.00061 (J)								
6/13/2018	0.00034 (J)								
7/23/2018	0.00035 (J)								
9/1/2018	<0.005								
10/2/2018	<0.005								
11/1/2018	<0.005								
12/6/2018	<0.005								
2/13/2019	<0.005								
3/16/2019			<0.005	<0.005					<0.005
3/27/2019			<0.005 (D)	<0.005 (D)					<0.005
4/3/2019			<0.005 (D)	<0.005 (D)					<0.005
4/15/2019									<0.005
4/16/2019			<0.005	<0.005					
5/2/2019									<0.005
5/3/2019			<0.005	<0.005					
5/14/2019			<0.005	<0.005					<0.005
5/28/2019									<0.005
5/29/2019			<0.005	<0.005					
6/12/2019			<0.005	<0.005					<0.005
8/8/2019	<0.005		<0.005	<0.005					<0.005
8/29/2019			<0.005	<0.005					
8/30/2019	<0.005								<0.005
3/16/2020									<0.005
3/17/2020	<0.005		<0.005	<0.005					
7/13/2020		<0.005							
7/21/2020					<0.005	<0.005	<0.005		
7/30/2020								<0.005	
11/3/2020							<0.005		
11/4/2020					<0.005	<0.005		<0.005	<0.005
11/9/2020			<0.005						
11/20/2020	<0.005	<0.005		<0.005					
3/8/2021	<0.005	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005
3/10/2021			<0.005	<0.005					
10/11/2021			<0.005	<0.005					
10/12/2021	<0.005	<0.005							<0.005
10/15/2021						<0.005		<0.005	
10/20/2021					<0.005		<0.005		

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-2D	APMW-3	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018	<0.005		0.0016		0.00055 (J)				
4/25/2018							0.00071 (J)		
6/14/2018	0.00061 (J)		0.0019		0.00068 (J)		0.0006 (J)		
7/24/2018	0.00037 (J)		0.00087 (J)		0.00036 (J)		0.0006 (J)		
9/1/2018	<0.005		0.001 (J)		<0.005		<0.005		
10/1/2018	<0.005		<0.005		<0.005				
10/2/2018							<0.005		
11/2/2018	0.00072 (J)		0.001 (J)		<0.005		<0.005		
12/6/2018					<0.005		<0.005		
12/7/2018	<0.005		0.0011 (J)						
2/13/2019	<0.005		<0.005		<0.005		<0.005		
8/8/2019	<0.005		0.0017 (J)						
8/9/2019					<0.005		<0.005		
8/30/2019	<0.005		<0.005		<0.005		<0.005		
3/16/2020	<0.005		<0.005		<0.005				
3/17/2020							<0.005		
7/11/2020		<0.005							
7/13/2020				<0.005					
7/14/2020						<0.005			<0.005
7/30/2020								<0.005	
11/5/2020	<0.005	<0.005	<0.005						
11/9/2020				<0.005	<0.005	<0.005	<0.005	<0.005	
11/10/2020									<0.005
3/8/2021	<0.005	<0.005							
3/9/2021			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
3/10/2021									<0.005
10/11/2021				<0.005				<0.005	
10/12/2021	<0.005	<0.005					<0.005		
10/14/2021					<0.005	<0.005			<0.005
10/21/2021			<0.005						

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		0.00046 (J)	0.00042 (J)		0.00081 (J)
6/13/2018					0.00027 (J)
6/14/2018		0.00039 (J)	0.00049 (J)		
7/23/2018			0.0006 (J)		0.00041 (J)
7/24/2018		0.00036 (J)			
9/6/2018		<0.005	<0.005		<0.005
10/2/2018		<0.005	<0.005		<0.005
11/1/2018			<0.005		<0.005
11/2/2018		<0.005			
12/6/2018		<0.005	<0.005		<0.005
2/13/2019		<0.005	<0.005		<0.005
4/5/2019	<0.005 (D)				
4/15/2019	<0.005				
5/2/2019	<0.005				
5/14/2019	<0.005				
5/29/2019	<0.005				
6/12/2019	<0.005				
6/19/2019	<0.005				
6/25/2019	<0.005				
8/8/2019					<0.005
8/9/2019	<0.005	<0.005	<0.005		
8/30/2019	<0.005	<0.005	<0.005		<0.005
3/17/2020	<0.005	<0.005	<0.005		<0.005
7/13/2020				<0.005	
11/9/2020			<0.005		
11/10/2020		<0.005		<0.005	
11/20/2020	<0.005				<0.005
3/8/2021					<0.005
3/9/2021	<0.005	<0.005	<0.005	<0.005	
10/12/2021		<0.005		<0.005	<0.005
10/20/2021	<0.005				
10/21/2021			<0.005		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-1R
4/25/2018	290								
6/13/2018	310								
7/23/2018	300								
9/1/2018	290								
10/2/2018	300								
11/1/2018	290								
12/6/2018	290								
2/13/2019	230								
3/16/2019			3.6	0.88 (J)					14
3/27/2019			0.81 (JD)	1.3 (D)					19
4/3/2019			1.1 (D)	1.9 (D)					4.6 (J)
4/4/2019	240								
4/15/2019									8.6
4/16/2019			0.68 (J)	2.5					
5/2/2019									6
5/3/2019			1.1	1.3					
5/14/2019			1.3	2.2					5.8
5/28/2019									9.4
5/29/2019			2.1	1.2					
6/12/2019			1.9	1.1					8.8
8/29/2019			2.3	1.1					
8/30/2019	160								13
3/16/2020									23
3/17/2020	110		3.7	3.2					
7/13/2020		5.31							
7/21/2020					802	713	52.9		
7/30/2020								33.4	
11/3/2020							550		
11/4/2020					1700 (o)	670		440	10
11/9/2020			0.51 (J)						
11/20/2020	50	2.9		0.79 (J)					
3/8/2021	24	3			720	740	97	72	12
3/10/2021			<5	1.1					
10/11/2021			<5	<5					
10/12/2021	4	2.4							<5
10/15/2021						730		55	
10/20/2021					840		91.5 (D)		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-2D	APMW-3	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018	<5		1200		340				
4/25/2018							920		
6/14/2018	7.2		1200		350		980		
7/24/2018	2.7 (J)		1100		310		950		
9/1/2018	1.5 (J)		1200		300		980		
10/1/2018	<5		1200		330				
10/2/2018							960		
11/2/2018	1.9 (J)		1000		310		860		
12/6/2018					300		990		
12/7/2018	<5		1100						
2/13/2019	1.5 (J)		1100		320		930		
4/4/2019							1100		
4/5/2019	7		1200		330				
8/30/2019	8.4		1100		330		940		
3/16/2020	16		1100		330				
3/17/2020							910		
7/11/2020		10.6							
7/13/2020				8.05					
7/14/2020						554			33.5
7/30/2020								12.7	
11/5/2020	4.4 (J)	13	1000						
11/9/2020				5.8	320	560	1000	13	
11/10/2020									20
3/8/2021	5.7	4.6							
3/9/2021			1100	11	320	520	910	11	
3/10/2021									14
10/11/2021				4.8				8.9	
10/12/2021	<5	3.1					900		
10/14/2021					290	660			12
10/21/2021			1040 (D)						

Time Series

Constituent: Sulfate (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		65	670		270
6/13/2018					300
6/14/2018		81	650		
7/23/2018			610		280
7/24/2018		52			
9/6/2018		53	690		270
10/2/2018		34	650		280
11/1/2018			610		270
11/2/2018		35			
12/6/2018		65	660		300
2/13/2019		74	600		280
4/4/2019		61	640		330
4/5/2019	800 (D)				
4/15/2019	700				
5/2/2019	810				
5/14/2019	810				
5/29/2019	830				
6/12/2019	830				
6/19/2019	810				
6/25/2019	800				
8/30/2019	800	83	620		280
3/17/2020	590	430	680		290
7/13/2020				10.5	
11/9/2020			590		
11/10/2020		64		1.8	
11/20/2020	790				270
3/8/2021					280
3/9/2021	830	100	630	0.84 (J)	
10/12/2021		13		0.83 (J)	270
10/20/2021	835 (D)				
10/21/2021			615 (D)		

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-1R
4/25/2018	<0.001								
6/13/2018	<0.001								
7/23/2018	<0.001								
9/1/2018	<0.001								
10/2/2018	<0.001								
11/1/2018	<0.001								
12/6/2018	<0.001								
2/13/2019	<0.001								
3/16/2019			<0.001	<0.001					<0.001
3/27/2019			<0.001 (D)	<0.001 (D)					<0.001
4/3/2019			<0.001 (D)	<0.001 (D)					<0.001
4/15/2019									<0.001
4/16/2019			<0.001	<0.001					
5/2/2019									<0.001
5/3/2019			<0.001	<0.001					
5/14/2019			<0.001	<0.001					<0.001
5/28/2019									<0.001
5/29/2019			<0.001	<0.001					
6/12/2019			<0.001	<0.001					<0.001
8/8/2019	0.00015 (J)		<0.001	<0.001					<0.001
8/29/2019			0.00015 (J)	0.00017 (J)					
8/30/2019	0.00058 (J)								<0.001
3/16/2020									<0.001
3/17/2020	<0.001		<0.001	<0.001					
7/13/2020		<0.001							
7/21/2020					<0.001	<0.001	<0.001		
7/30/2020								<0.001	
11/3/2020							<0.001		
11/4/2020					<0.001	<0.001		<0.001	0.00019 (J)
11/9/2020			<0.001						
11/20/2020	<0.001	<0.001		<0.001					
3/8/2021	0.00068 (J)	0.00057 (J)			<0.001	<0.001	<0.001	<0.001	<0.001
3/10/2021			<0.001	<0.001					
10/11/2021			<0.001	<0.001					
10/12/2021	<0.001	<0.001							<0.001
10/15/2021						<0.001		<0.001	
10/20/2021					<0.001		<0.001		

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-2D	APMW-3	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018	<0.001		0.00012 (J)		<0.001				
4/25/2018							<0.001		
6/14/2018	<0.001		<0.001		<0.001		<0.001		
7/24/2018	<0.001		<0.001		<0.001		<0.001		
9/1/2018	<0.001		<0.001		<0.001		<0.001		
10/1/2018	<0.001		<0.001		<0.001				
10/2/2018							<0.001		
11/2/2018	<0.001		<0.001		<0.001		<0.001		
12/6/2018					<0.001		<0.001		
12/7/2018	<0.001		<0.001						
2/13/2019	<0.001		<0.001		<0.001		<0.001		
8/8/2019	0.00084 (J)		<0.001						
8/9/2019					<0.001		<0.001		
8/30/2019	<0.001		<0.001		<0.001		<0.001		
3/16/2020	<0.001		<0.001		<0.001				
3/17/2020							<0.001		
7/11/2020		<0.001							
7/13/2020				<0.001					
7/14/2020						<0.001			<0.001
7/30/2020								<0.001	
11/5/2020	<0.001	<0.001	<0.001						
11/9/2020				<0.001	<0.001	<0.001	<0.001	<0.001	
11/10/2020									<0.001
3/8/2021	<0.001	<0.001							
3/9/2021			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
3/10/2021									<0.001
10/11/2021				<0.001				<0.001	
10/12/2021	<0.001	<0.001					<0.001		
10/14/2021					<0.001	<0.001			<0.001
10/21/2021			<0.001						

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		<0.001	<0.001		<0.001
6/13/2018					<0.001
6/14/2018		<0.001	<0.001		
7/23/2018			<0.001		<0.001
7/24/2018		<0.001			
9/6/2018		<0.001	<0.001		<0.001
10/2/2018		<0.001	<0.001		<0.001
11/1/2018			<0.001		<0.001
11/2/2018		<0.001			
12/6/2018		<0.001	<0.001		<0.001
2/13/2019		<0.001	<0.001		<0.001
4/5/2019	<0.001 (D)				
4/15/2019	<0.001				
5/2/2019	<0.001				
5/14/2019	<0.001				
5/29/2019	<0.001				
6/12/2019	<0.001				
6/19/2019	<0.001				
6/25/2019	<0.001				
8/8/2019					<0.001
8/9/2019	<0.001	<0.001	0.00025 (J)		
8/30/2019	<0.001	<0.001	0.0013		0.0016
3/17/2020	<0.001	<0.001	<0.001		<0.001
7/13/2020				<0.001	
11/9/2020			<0.001		
11/10/2020		<0.001		<0.001	
11/20/2020	<0.001				<0.001
3/8/2021					0.00024 (J)
3/9/2021	<0.001	<0.001	0.00017 (J)	<0.001	
10/12/2021		<0.001		<0.001	<0.001
10/20/2021	<0.001				
10/21/2021			<0.001		

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-1R
4/25/2018	2500								
6/13/2018	2900								
7/23/2018	3100								
9/1/2018	2700								
10/2/2018	2900								
11/1/2018	2700								
12/6/2018	2600								
2/13/2019	2800								
3/16/2019			120	150					3300
3/27/2019			63 (D)	110 (D)					2900
4/3/2019			100 (D)	150 (D)					3600
4/4/2019	2500								
4/15/2019									3300
4/16/2019			110	150					
5/2/2019									3300
5/3/2019			91	130					
5/14/2019			120	150					3600
5/28/2019									3500
5/29/2019			140	180					
6/12/2019			100	130					
8/29/2019			73	110					
8/30/2019	2200								3500
3/16/2020									4500
3/17/2020	2700		95	120					
7/13/2020		152							
7/21/2020					3760	6350	5400		
7/30/2020								5020	
11/3/2020							9200		
11/4/2020					5400	6500		8500	5000
11/9/2020			68						
11/20/2020	2100	180		160					
3/8/2021	2100	160			3600	6800	6200	5100	5200
3/10/2021			89	140					
10/11/2021			80	120					
10/12/2021	2300	160							4700
10/15/2021						5700		5700	
10/20/2021					3400		5200		

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-2D	APMW-3	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018	4800		18000		7700				
4/25/2018							16000		
6/14/2018	5700		13000		7200		14000		
7/24/2018	6000		18000		7000		15000		
9/1/2018	6300		20000		7800		16000		
10/1/2018	6500		20000		8400				
10/2/2018							17000		
11/2/2018	3800		19000		7600		15000		
12/6/2018					7400		14000		
12/7/2018	5300		13000						
2/13/2019	6200		16000		7700		16000		
4/4/2019							18000		
4/5/2019	5000		18000		7000				
8/30/2019	4400		18000		5800		16000		
3/16/2020	4400		16000		6100				
3/17/2020							15000		
7/11/2020		170							
7/13/2020				152					
7/14/2020						14800			184
7/30/2020								133 (D)	
11/5/2020	4100	190	19000						
11/9/2020				170	5400	16000	14000	130	
11/10/2020									150
3/8/2021	4300	160							
3/9/2021			22000	230	5500	19000	20000	150	
3/10/2021									160
10/11/2021				170				140	
10/12/2021	4400	160					15000		
10/14/2021					5700	15000			150
10/21/2021			18000						

Time Series

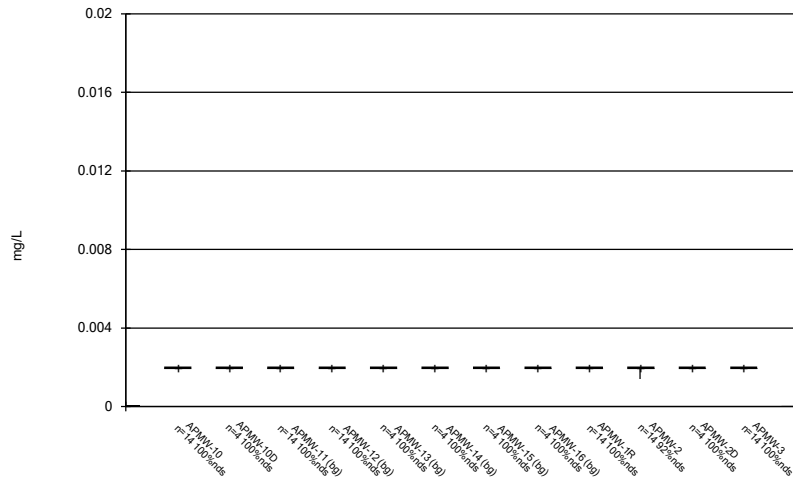
Constituent: Total Dissolved Solids (mg/L) Analysis Run 12/8/2021 3:25 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		7500	6400		5800
6/13/2018					5800
6/14/2018		7000	6000		
7/23/2018			7200		5800
7/24/2018		7200			
9/6/2018		7000	7800		6300
10/2/2018		7400	8200		6500
11/1/2018			7300		5000
11/2/2018		6900			
12/6/2018		6900	8300		6000
2/13/2019		8200	8900		6700
4/4/2019		8100	7700		4500
4/5/2019	7800 (D)				
4/15/2019	6600				
5/2/2019	7400				
5/14/2019	8300				
5/29/2019	8600				
6/12/2019	6800				
6/19/2019	7100				
6/25/2019	8500				
8/30/2019	6600	6900	6300		4900
3/17/2020	7200	6900	6400		5400
7/13/2020				148	
11/9/2020			7100		
11/10/2020		7100		150	
11/20/2020	7400				6000
3/8/2021					6300
3/9/2021	8800	7800	8100	170	
10/12/2021		6900		170	7000
10/20/2021	7600				
10/21/2021			6600		

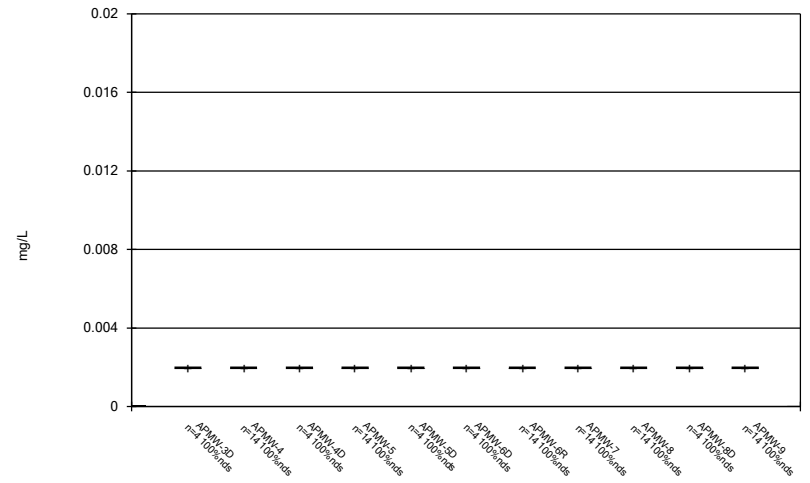
FIGURE B.

Box & Whiskers Plot



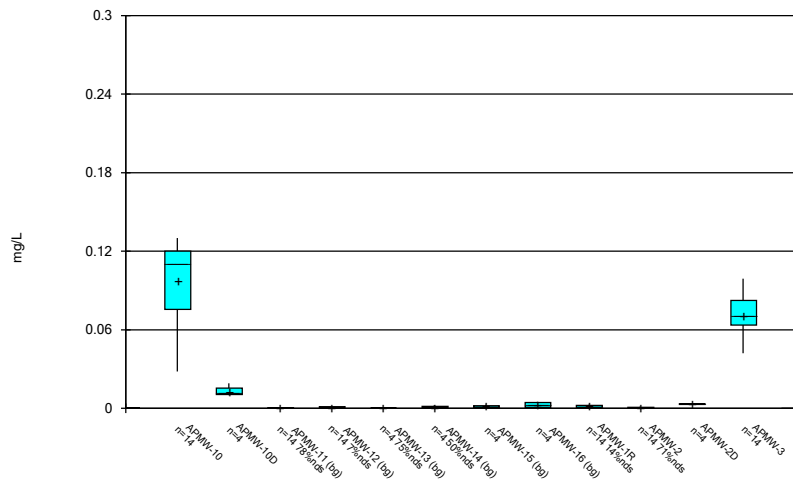
Constituent: Antimony Analysis Run 12/8/2021 3:26 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



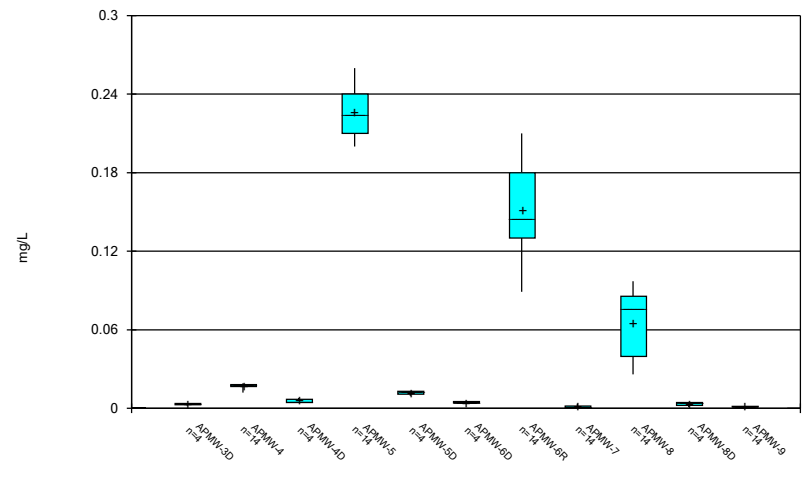
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



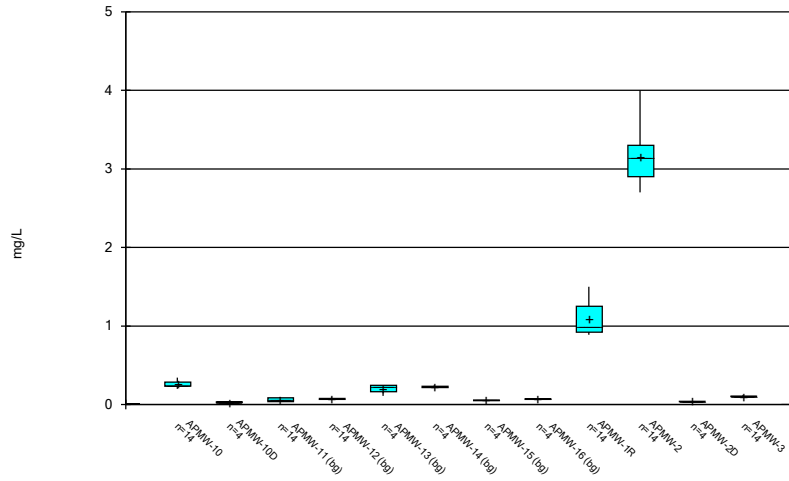
Constituent: Arsenic Analysis Run 12/8/2021 3:26 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



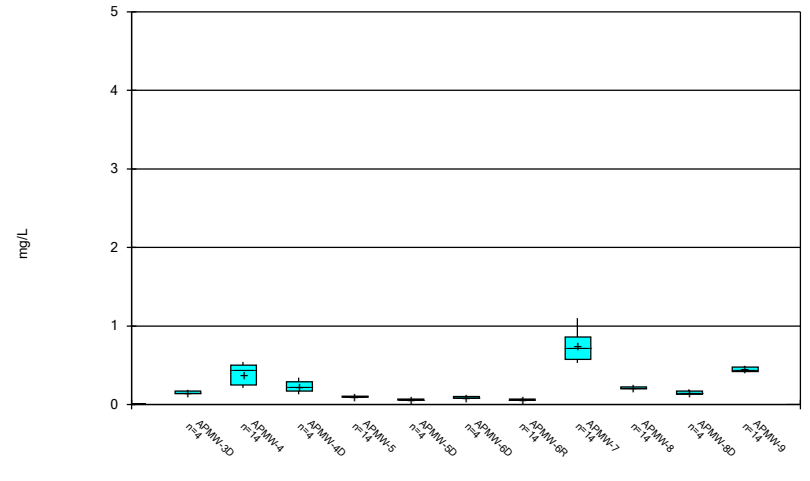
Constituent: Arsenic Analysis Run 12/8/2021 3:26 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



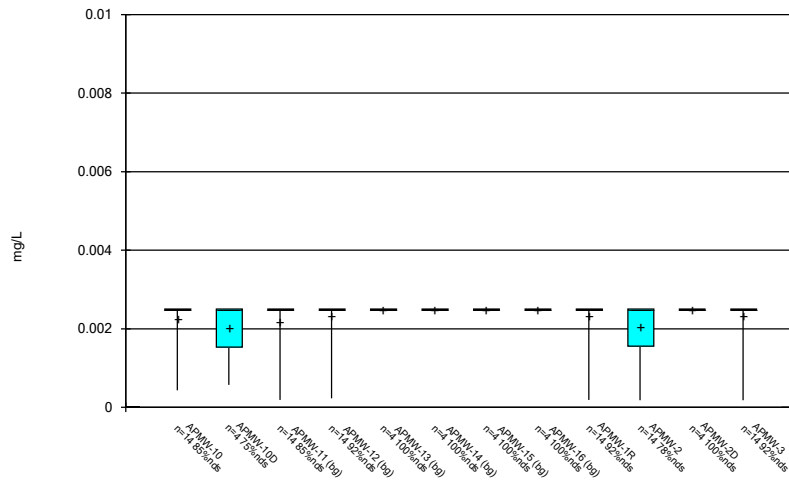
Constituent: Barium Analysis Run 12/8/2021 3:26 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



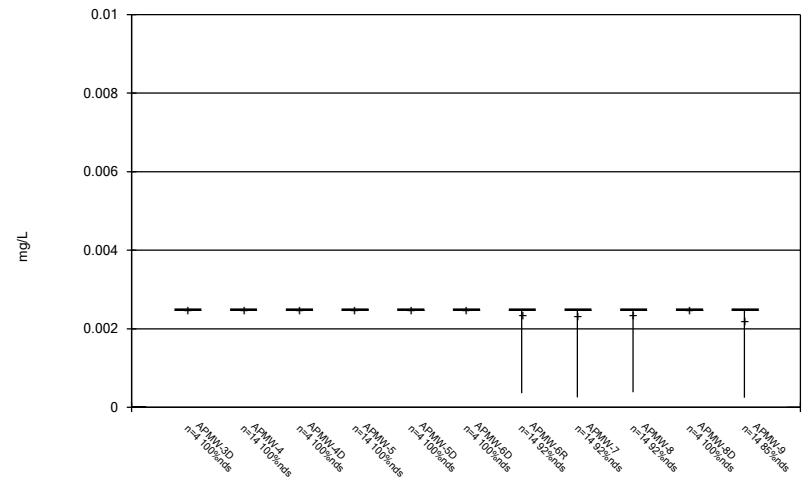
Constituent: Barium Analysis Run 12/8/2021 3:26 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



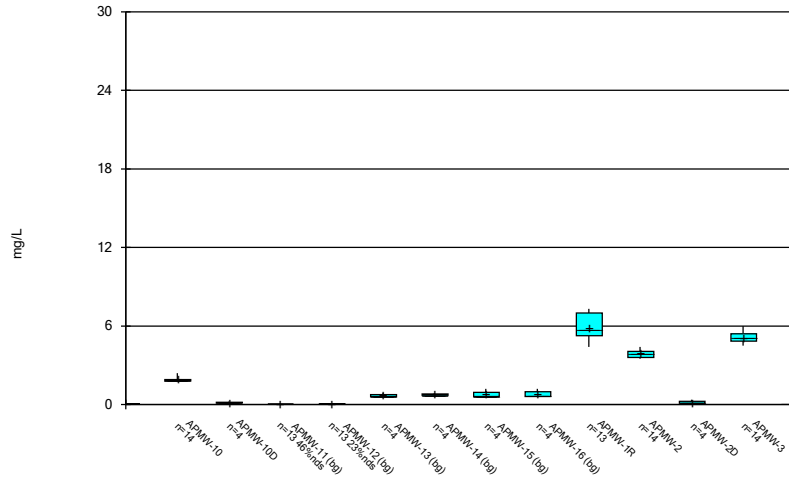
Constituent: Beryllium Analysis Run 12/8/2021 3:26 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



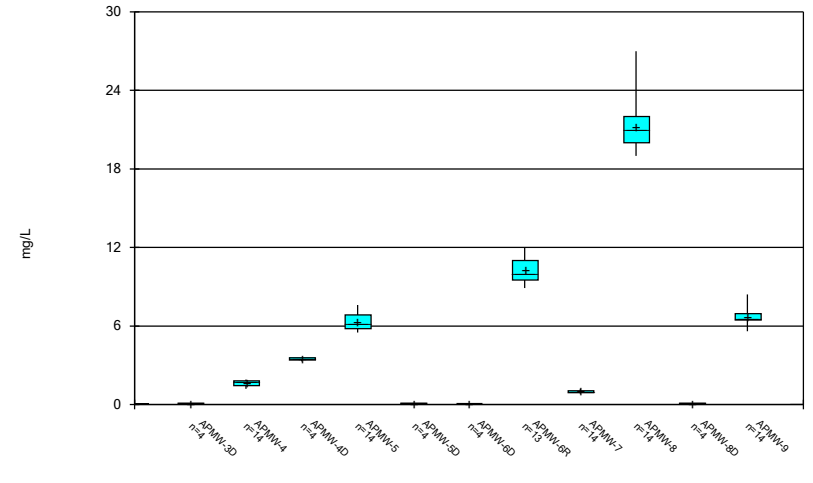
Constituent: Beryllium Analysis Run 12/8/2021 3:26 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



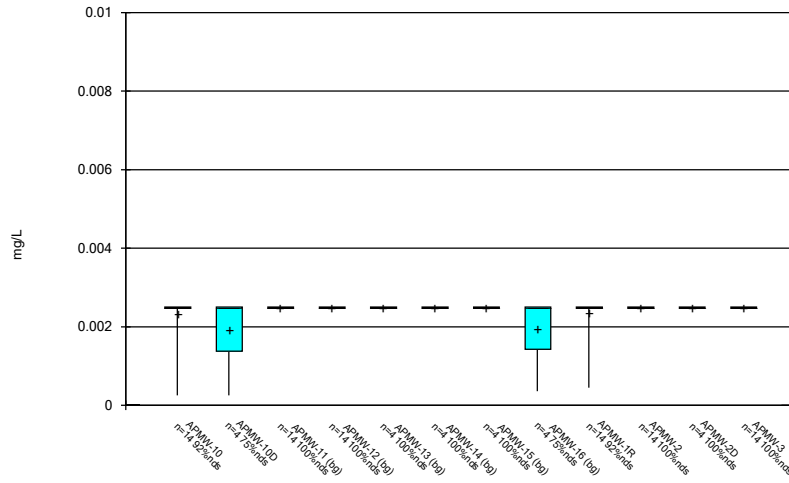
Constituent: Boron Analysis Run 12/8/2021 3:26 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



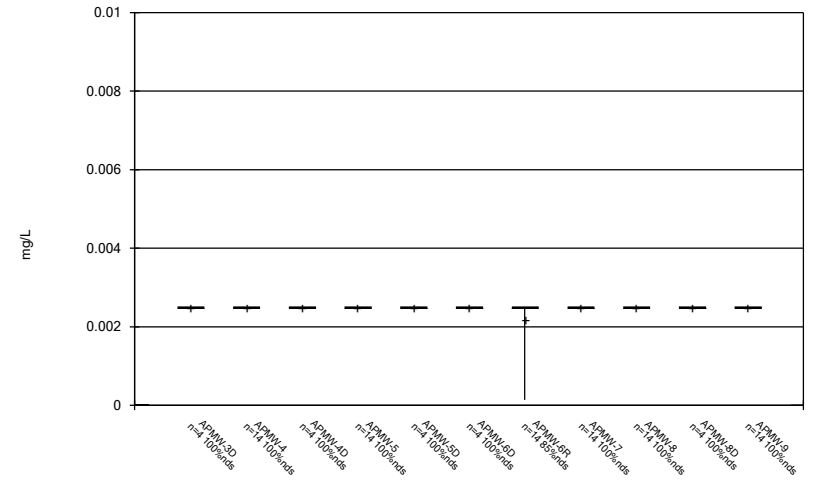
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



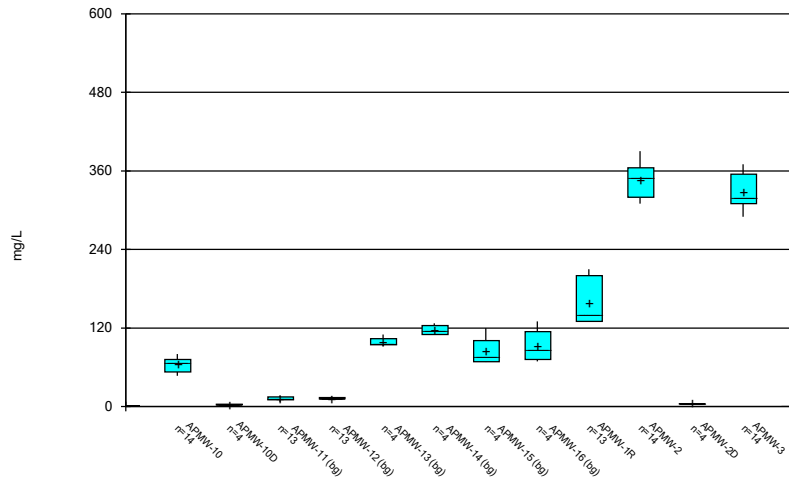
Constituent: Cadmium Analysis Run 12/8/2021 3:26 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



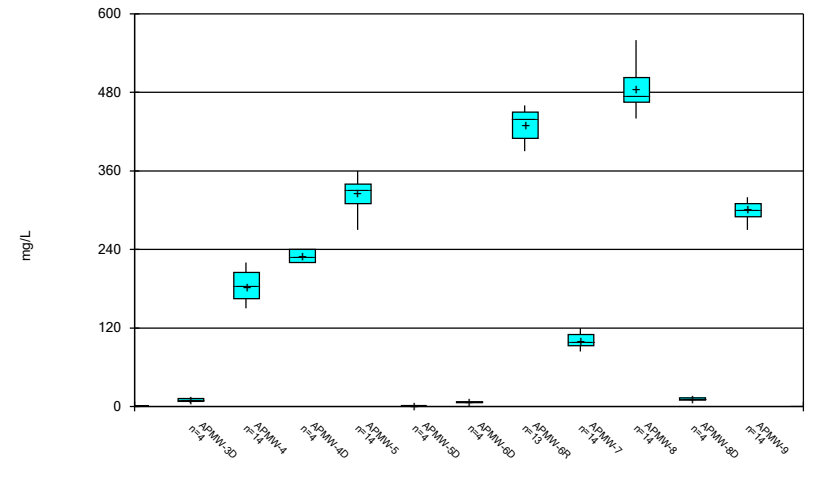
Constituent: Cadmium Analysis Run 12/8/2021 3:26 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



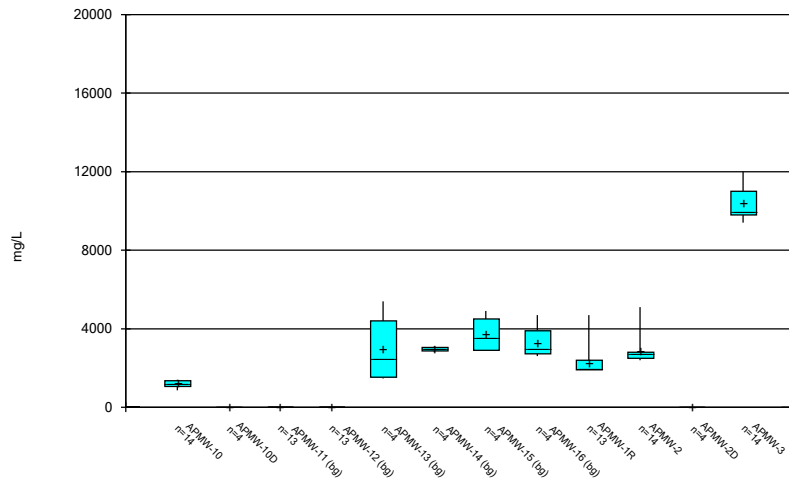
Constituent: Calcium Analysis Run 12/8/2021 3:26 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



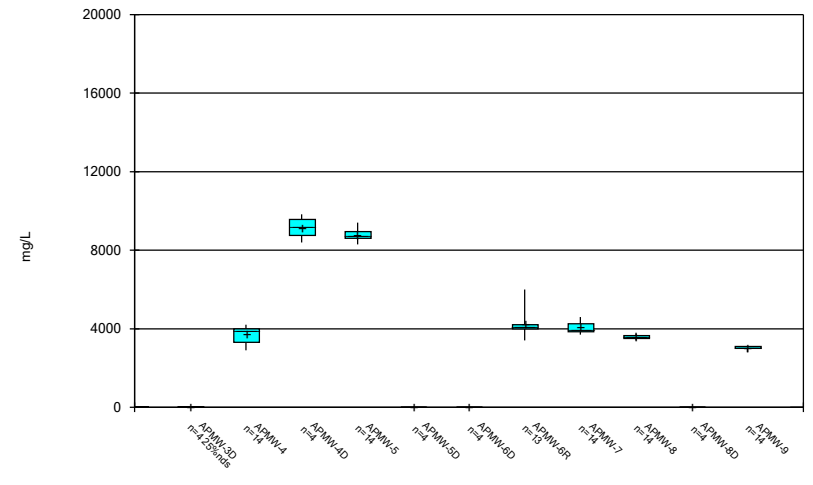
Constituent: Calcium Analysis Run 12/8/2021 3:26 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



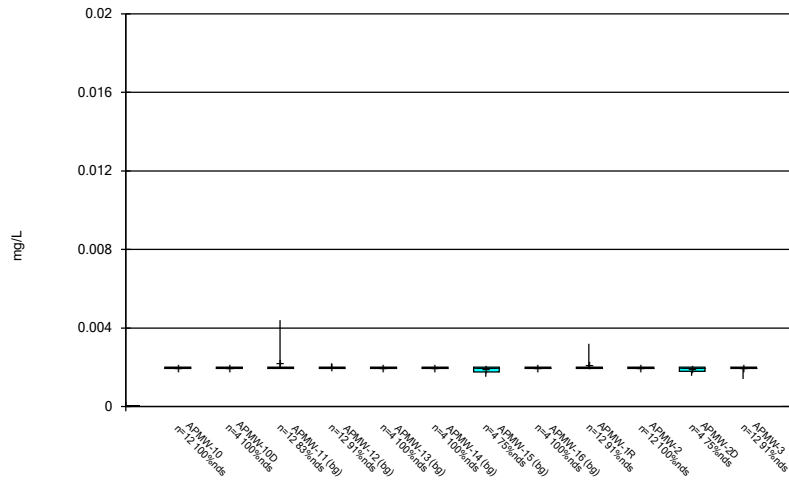
Constituent: Chloride Analysis Run 12/8/2021 3:26 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



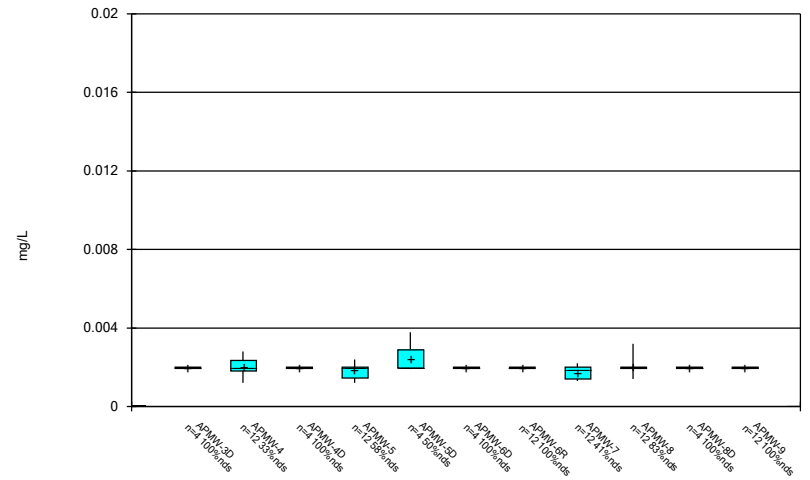
Constituent: Chloride Analysis Run 12/8/2021 3:26 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



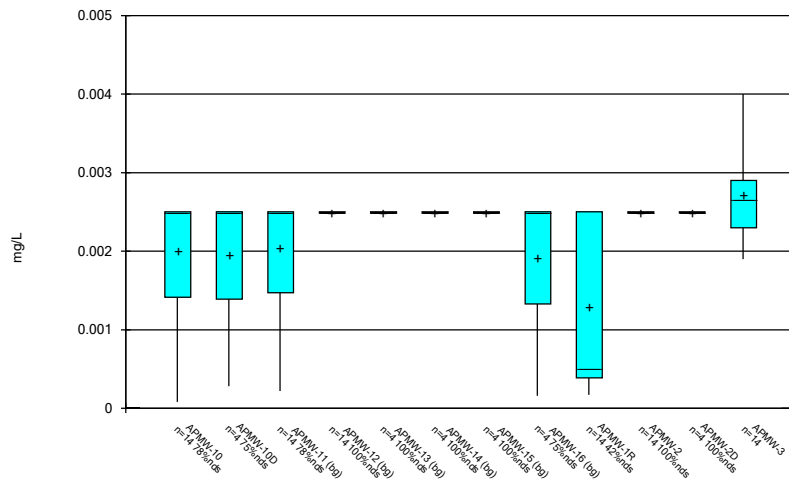
Constituent: Chromium Analysis Run 12/8/2021 3:26 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



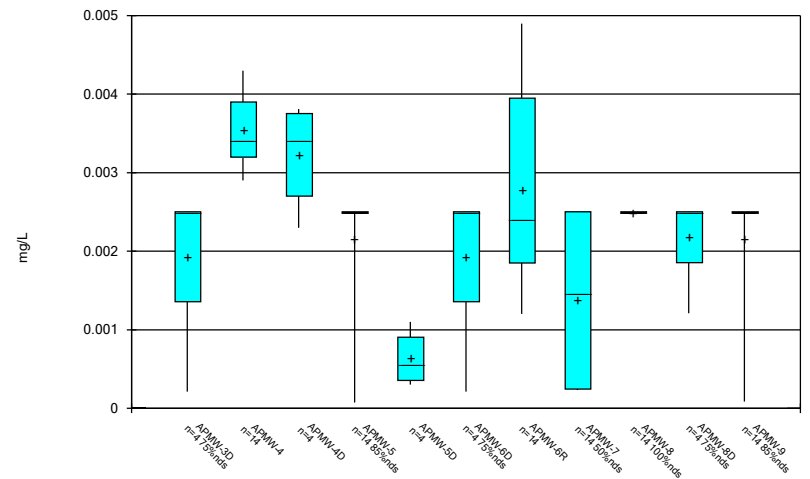
Constituent: Chromium Analysis Run 12/8/2021 3:26 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



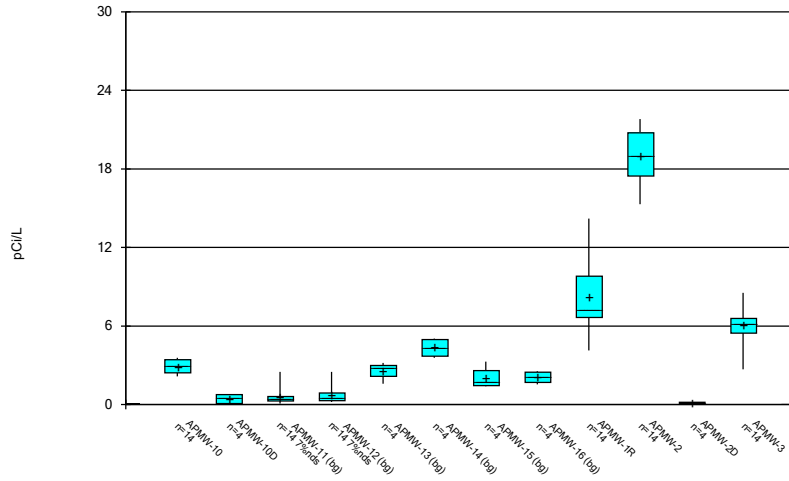
Constituent: Cobalt Analysis Run 12/8/2021 3:26 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



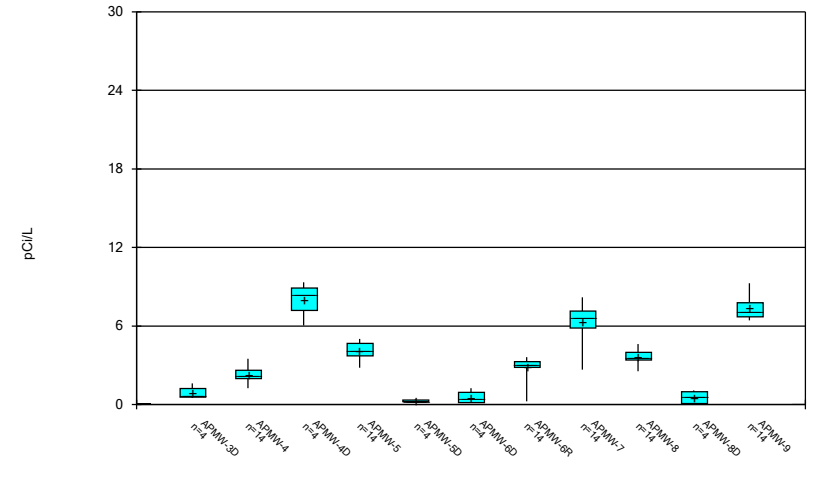
Constituent: Cobalt Analysis Run 12/8/2021 3:26 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



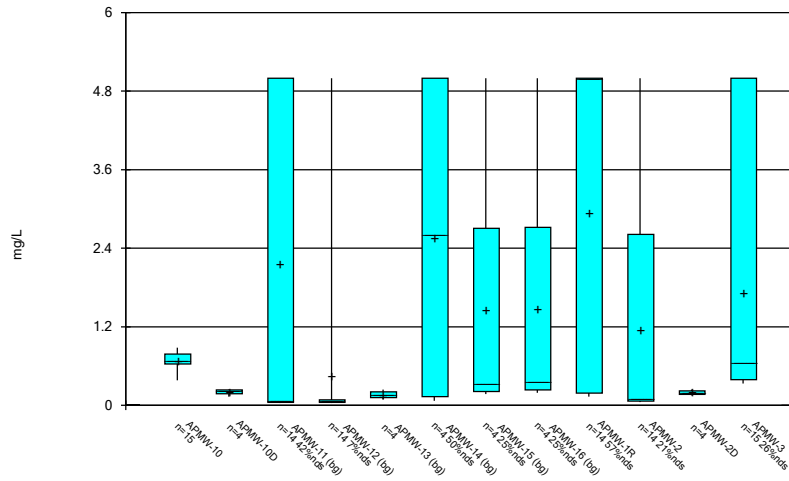
Constituent: Combined Radium 226 + 228 Analysis Run 12/8/2021 3:26 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



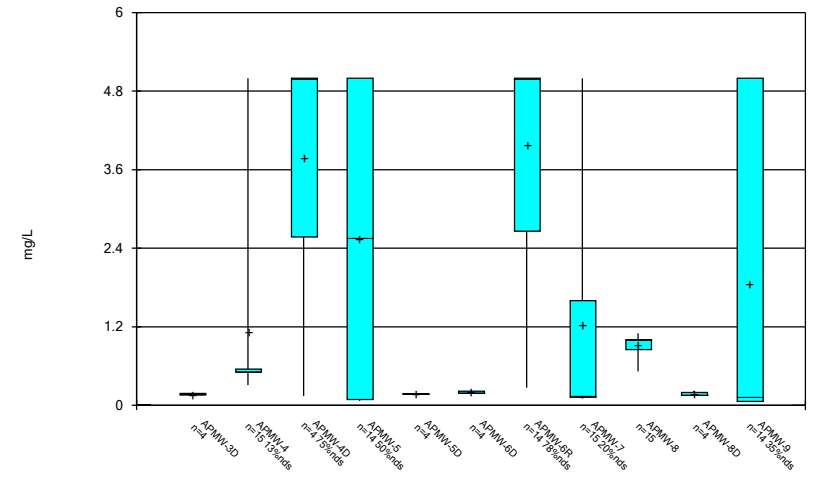
Constituent: Combined Radium 226 + 228 Analysis Run 12/8/2021 3:26 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



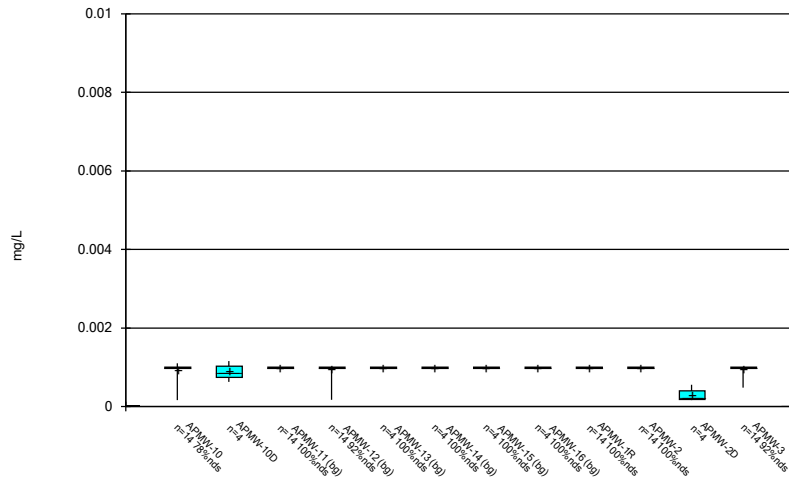
Constituent: Fluoride Analysis Run 12/8/2021 3:26 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



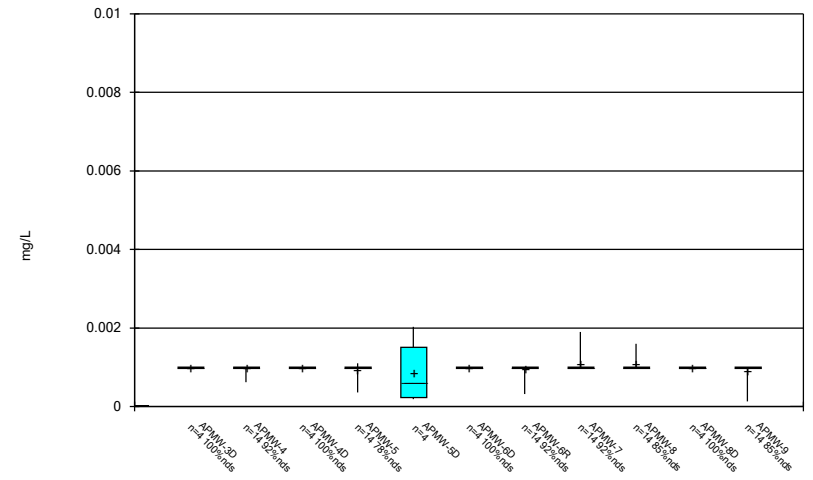
Constituent: Fluoride Analysis Run 12/8/2021 3:26 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



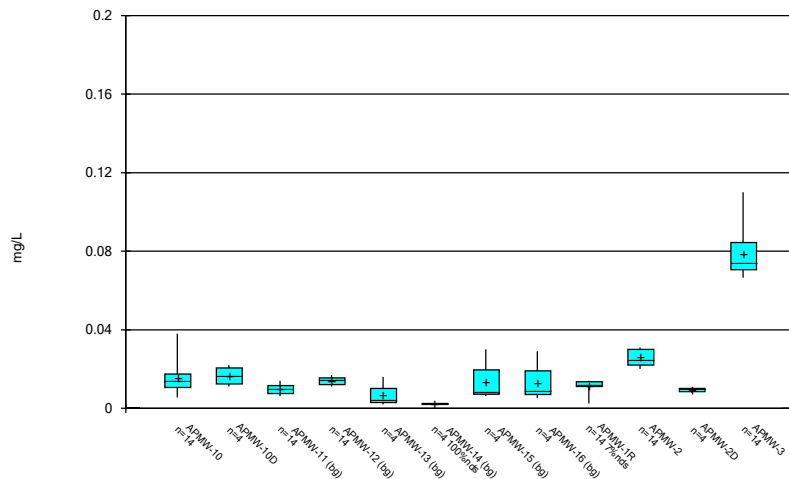
Constituent: Lead Analysis Run 12/8/2021 3:26 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



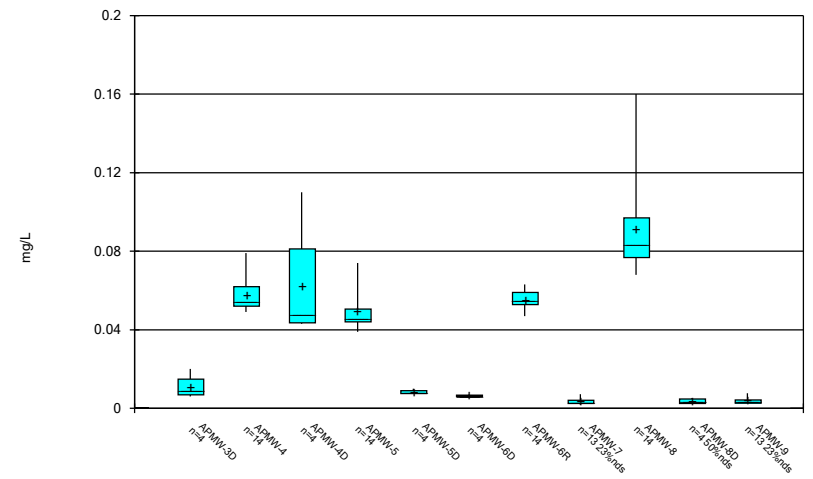
Constituent: Lead Analysis Run 12/8/2021 3:26 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



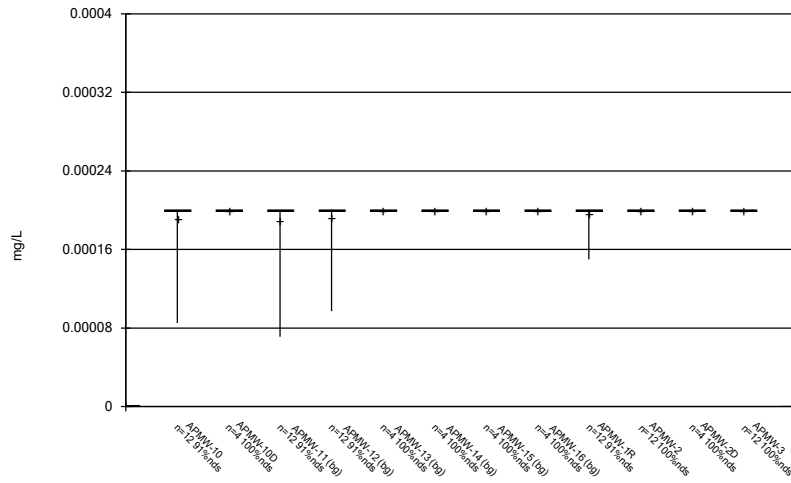
Constituent: Lithium Analysis Run 12/8/2021 3:26 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



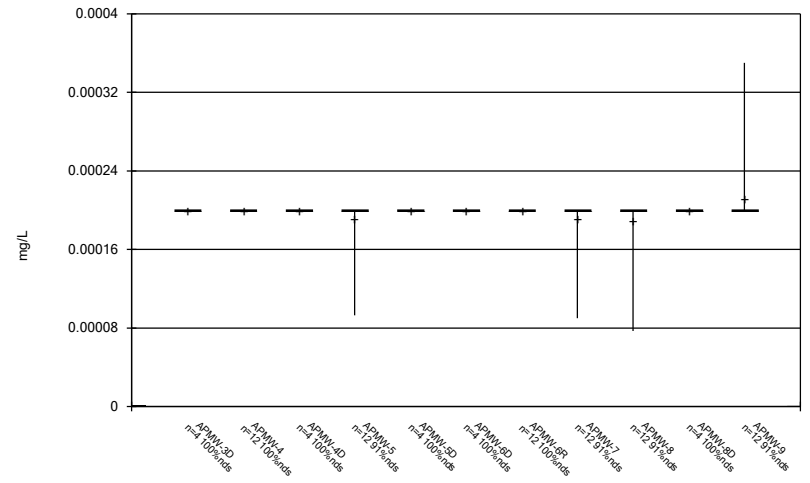
Constituent: Lithium Analysis Run 12/8/2021 3:26 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



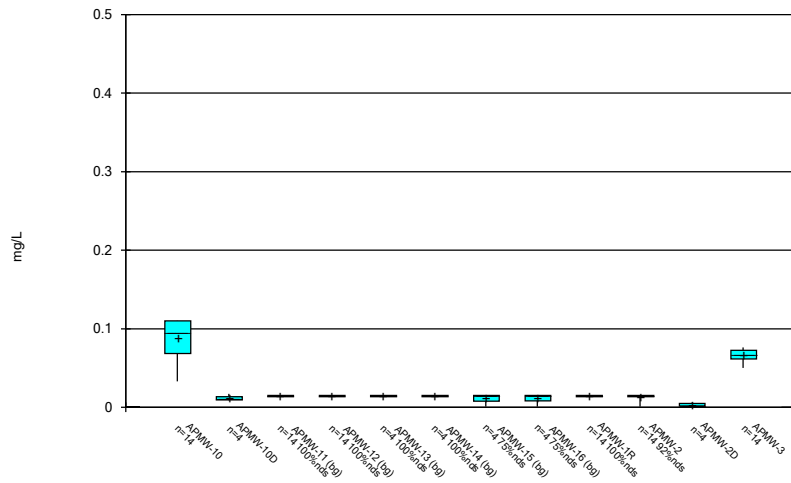
Constituent: Mercury Analysis Run 12/8/2021 3:26 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



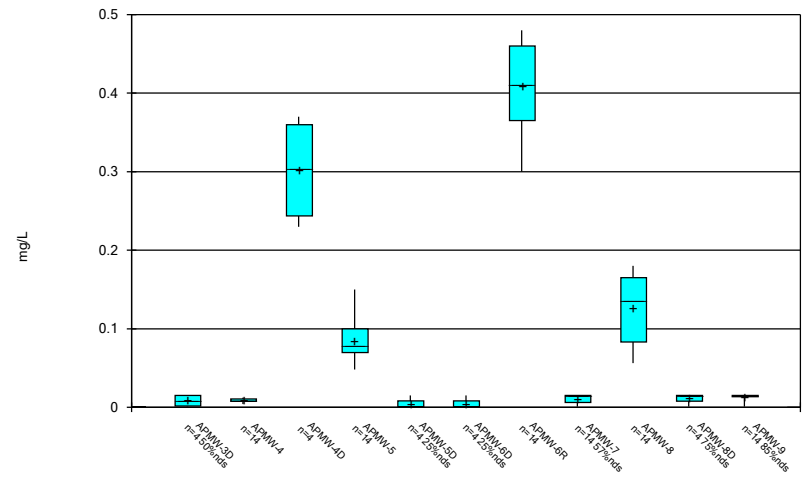
Constituent: Mercury Analysis Run 12/8/2021 3:26 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



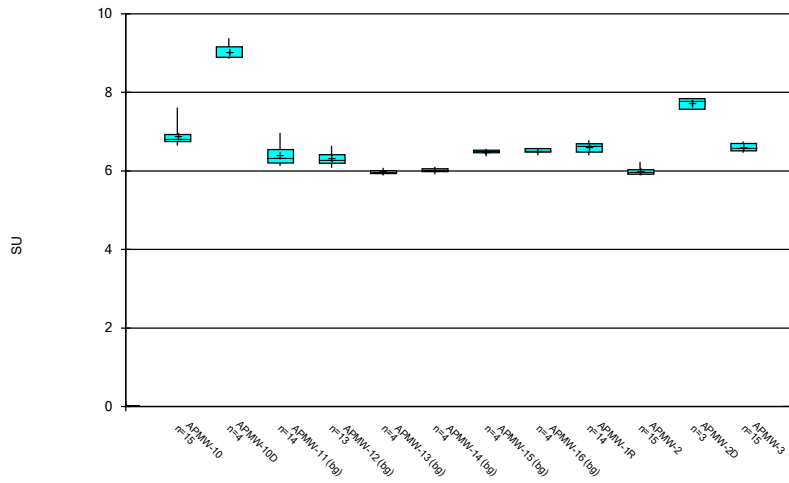
Constituent: Molybdenum Analysis Run 12/8/2021 3:26 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



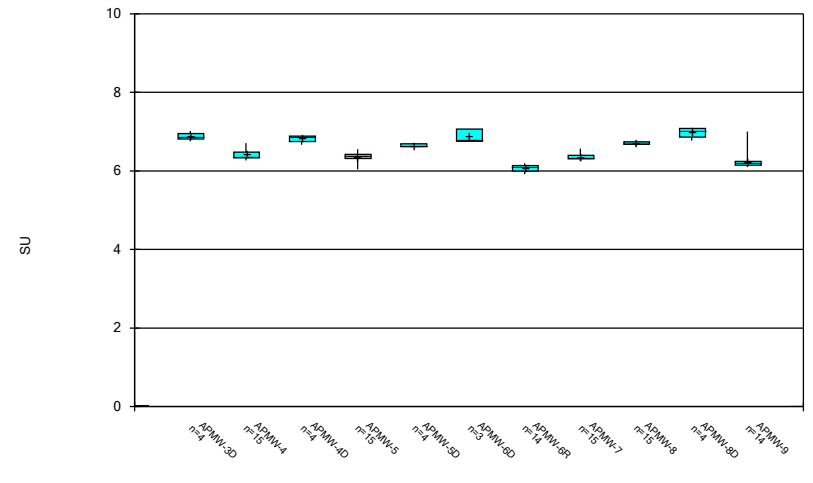
Constituent: Molybdenum Analysis Run 12/8/2021 3:26 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



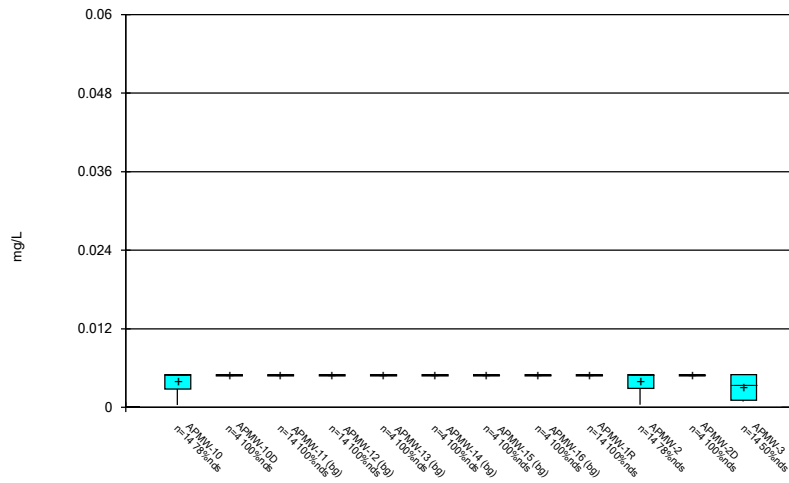
Constituent: pH Analysis Run 12/8/2021 3:26 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



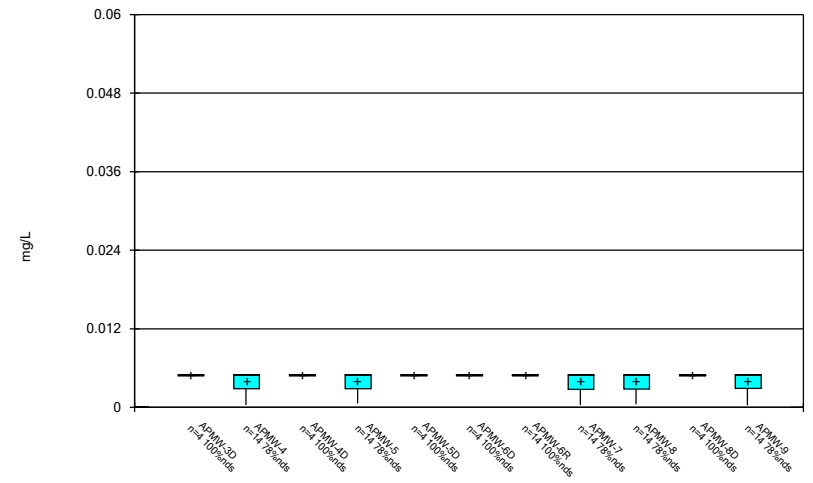
Constituent: pH Analysis Run 12/8/2021 3:26 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



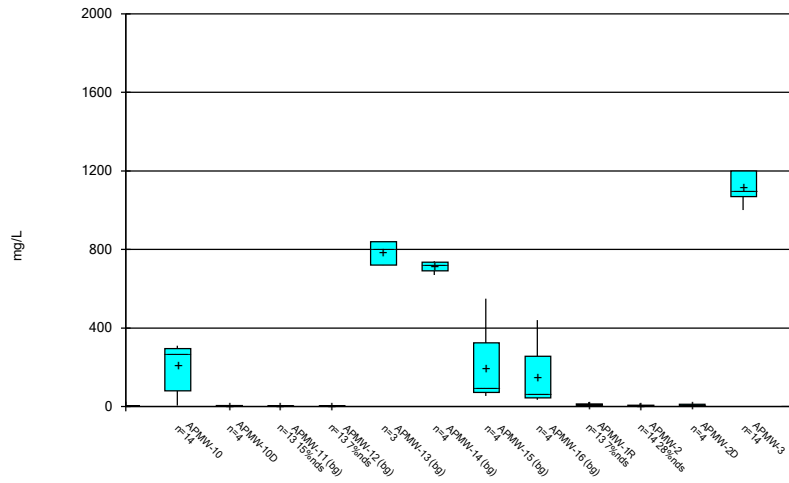
Constituent: Selenium Analysis Run 12/8/2021 3:26 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



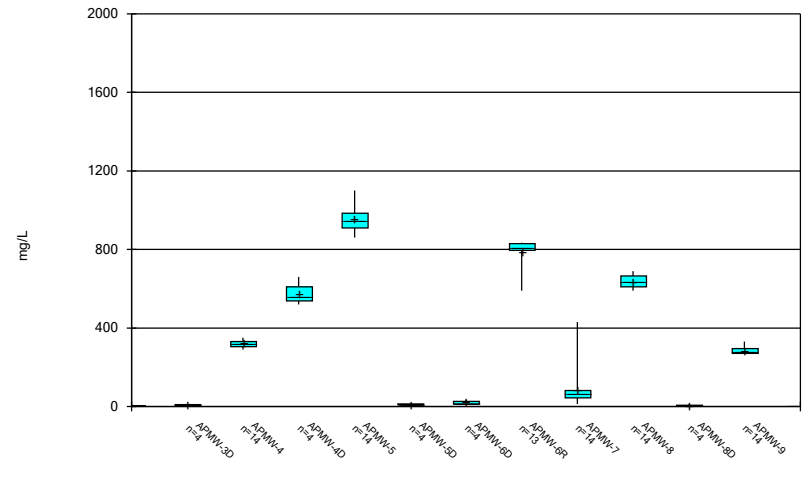
Constituent: Selenium Analysis Run 12/8/2021 3:26 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



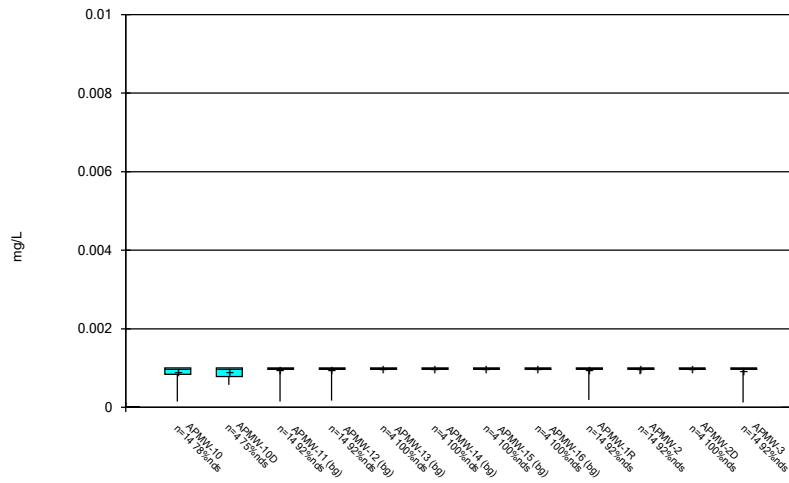
Constituent: Sulfate Analysis Run 12/8/2021 3:26 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



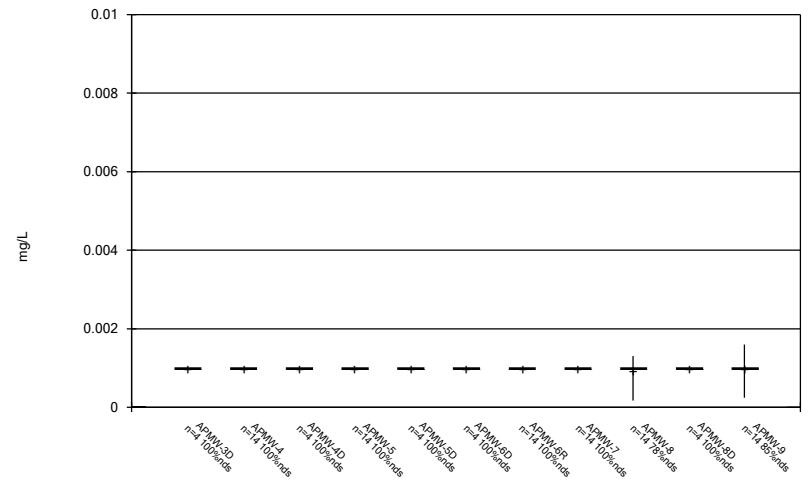
Constituent: Sulfate Analysis Run 12/8/2021 3:26 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



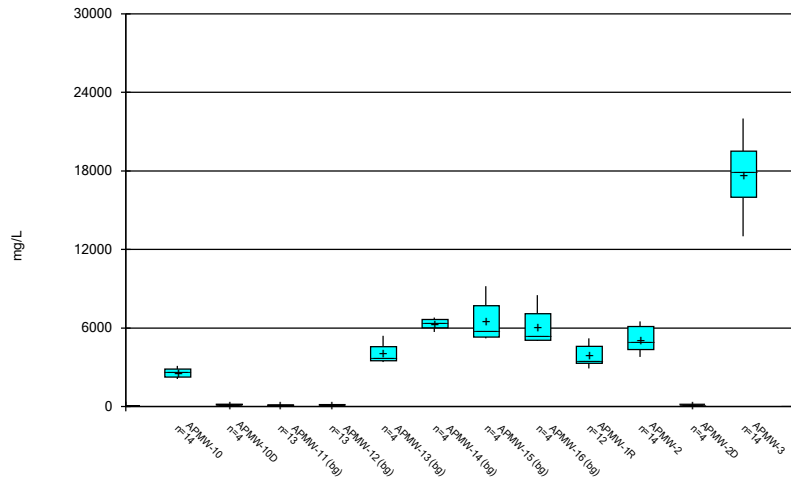
Constituent: Thallium Analysis Run 12/8/2021 3:26 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



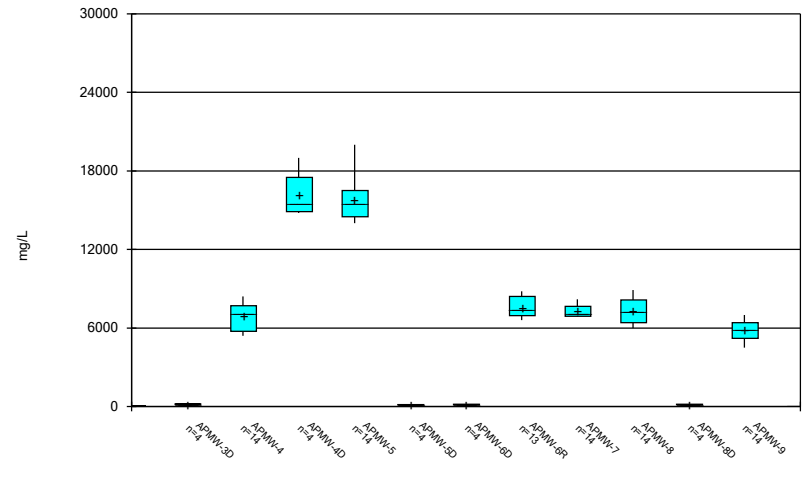
Constituent: Thallium Analysis Run 12/8/2021 3:26 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 12/8/2021 3:26 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 12/8/2021 3:26 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

FIGURE C.

Outlier Summary

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 12/6/2021, 10:56 AM

	APMW-2 Fluoride (mg/L)	APMW-5 Fluoride (mg/L)	APMW-9 Fluoride (mg/L)	APMW-7 Lithium (mg/L)	APMW-9 Lithium (mg/L)	APMW-13 Sulfate (mg/L)
11/1/2018					0.018 (o)	
11/2/2018				0.014 (o)		
12/6/2018		1.4 (o)	0.21 (o)			
12/7/2018	4.3 (o)					
11/4/2020						1700 (o)

FIGURE D.

Interwell Prediction Limit - Significant Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 12/8/2021, 3:07 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	TransformAlpha	Method
Boron (mg/L)	APMW-10	1.2	n/a	10/12/2021	1.9	Yes	42	n/a	n/a	21.43	n/a	n/a	0.001033 NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-1R	1.2	n/a	10/12/2021	7.2	Yes	42	n/a	n/a	21.43	n/a	n/a	0.001033 NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-2	1.2	n/a	10/12/2021	3.8	Yes	42	n/a	n/a	21.43	n/a	n/a	0.001033 NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-3	1.2	n/a	10/21/2021	5.1	Yes	42	n/a	n/a	21.43	n/a	n/a	0.001033 NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-5	1.2	n/a	10/12/2021	6.1	Yes	42	n/a	n/a	21.43	n/a	n/a	0.001033 NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-6R	1.2	n/a	10/20/2021	11	Yes	42	n/a	n/a	21.43	n/a	n/a	0.001033 NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-8	1.2	n/a	10/21/2021	22	Yes	42	n/a	n/a	21.43	n/a	n/a	0.001033 NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-9	1.2	n/a	10/12/2021	6.7	Yes	42	n/a	n/a	21.43	n/a	n/a	0.001033 NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-1R	130	n/a	10/12/2021	200	Yes	42	n/a	n/a	0	n/a	n/a	0.001033 NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-2	130	n/a	10/12/2021	360	Yes	42	n/a	n/a	0	n/a	n/a	0.001033 NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-3	130	n/a	10/21/2021	350	Yes	42	n/a	n/a	0	n/a	n/a	0.001033 NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-4	130	n/a	10/14/2021	150	Yes	42	n/a	n/a	0	n/a	n/a	0.001033 NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-5	130	n/a	10/12/2021	310	Yes	42	n/a	n/a	0	n/a	n/a	0.001033 NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-6R	130	n/a	10/20/2021	400	Yes	42	n/a	n/a	0	n/a	n/a	0.001033 NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-8	130	n/a	10/21/2021	495	Yes	42	n/a	n/a	0	n/a	n/a	0.001033 NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-9	130	n/a	10/12/2021	300	Yes	42	n/a	n/a	0	n/a	n/a	0.001033 NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-3	5400	n/a	10/21/2021	9400	Yes	42	n/a	n/a	0	n/a	n/a	0.001033 NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-5	5400	n/a	10/12/2021	8300	Yes	42	n/a	n/a	0	n/a	n/a	0.001033 NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-3	840	n/a	10/21/2021	1040	Yes	41	n/a	n/a	7.317	n/a	n/a	0.001071 NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-5	840	n/a	10/12/2021	900	Yes	41	n/a	n/a	7.317	n/a	n/a	0.001071 NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-3	9200	n/a	10/21/2021	18000	Yes	42	n/a	n/a	0	n/a	n/a	0.001033 NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-5	9200	n/a	10/12/2021	15000	Yes	42	n/a	n/a	0	n/a	n/a	0.001033 NP Inter (normality) 1 of 2

Interwell Prediction Limit - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 12/8/2021, 3:07 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)	APMW-10	1.2	n/a	10/12/2021	1.9	Yes	42	n/a	n/a	21.43	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-1R	1.2	n/a	10/12/2021	7.2	Yes	42	n/a	n/a	21.43	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-2	1.2	n/a	10/12/2021	3.8	Yes	42	n/a	n/a	21.43	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-3	1.2	n/a	10/21/2021	5.1	Yes	42	n/a	n/a	21.43	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-4	1.2	n/a	10/14/2021	1.2	No	42	n/a	n/a	21.43	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-5	1.2	n/a	10/12/2021	6.1	Yes	42	n/a	n/a	21.43	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-6R	1.2	n/a	10/20/2021	11	Yes	42	n/a	n/a	21.43	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-7	1.2	n/a	10/12/2021	1.2	No	42	n/a	n/a	21.43	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-8	1.2	n/a	10/21/2021	22	Yes	42	n/a	n/a	21.43	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-9	1.2	n/a	10/12/2021	6.7	Yes	42	n/a	n/a	21.43	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-10	130	n/a	10/12/2021	52	No	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-1R	130	n/a	10/12/2021	200	Yes	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-2	130	n/a	10/12/2021	360	Yes	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-3	130	n/a	10/21/2021	350	Yes	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-4	130	n/a	10/14/2021	150	Yes	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-5	130	n/a	10/12/2021	310	Yes	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-6R	130	n/a	10/20/2021	400	Yes	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-7	130	n/a	10/12/2021	84	No	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-8	130	n/a	10/21/2021	495	Yes	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-9	130	n/a	10/12/2021	300	Yes	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-10	5400	n/a	10/12/2021	860	No	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-1R	5400	n/a	10/12/2021	2300	No	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-2	5400	n/a	10/12/2021	2400	No	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-3	5400	n/a	10/21/2021	9400	Yes	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-4	5400	n/a	10/14/2021	2900	No	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-5	5400	n/a	10/12/2021	8300	Yes	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-6R	5400	n/a	10/20/2021	4050	No	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-7	5400	n/a	10/12/2021	3800	No	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-8	5400	n/a	10/21/2021	3550	No	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-9	5400	n/a	10/12/2021	3000	No	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-10	5	n/a	10/12/2021	0.66	No	44	n/a	n/a	25	n/a	n/a	0.0009571	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-1R	5	n/a	10/12/2021	0.27J	No	44	n/a	n/a	25	n/a	n/a	0.0009571	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-2	5	n/a	10/12/2021	0.22J	No	44	n/a	n/a	25	n/a	n/a	0.0009571	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-3	5	n/a	10/21/2021	5ND	No	44	n/a	n/a	25	n/a	n/a	0.0009571	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-4	5	n/a	10/14/2021	0.5J	No	44	n/a	n/a	25	n/a	n/a	0.0009571	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-5	5	n/a	10/12/2021	5ND	No	44	n/a	n/a	25	n/a	n/a	0.0009571	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-6R	5	n/a	10/20/2021	0.29J	No	44	n/a	n/a	25	n/a	n/a	0.0009571	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-7	5	n/a	10/12/2021	5ND	No	44	n/a	n/a	25	n/a	n/a	0.0009571	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-8	5	n/a	10/21/2021	1J	No	44	n/a	n/a	25	n/a	n/a	0.0009571	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-9	5	n/a	10/12/2021	5ND	No	44	n/a	n/a	25	n/a	n/a	0.0009571	NP Inter (normality) 1 of 2
pH (SU)	APMW-10	6.8	5.841	10/12/2021	6.75	No	43	6.32	0.2332	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-1R	6.8	5.841	10/12/2021	6.43	No	43	6.32	0.2332	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-2	6.8	5.841	10/12/2021	5.89	No	43	6.32	0.2332	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-3	6.8	5.841	10/21/2021	6.54	No	43	6.32	0.2332	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-4	6.8	5.841	10/14/2021	6.41	No	43	6.32	0.2332	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-5	6.8	5.841	10/12/2021	6.55	No	43	6.32	0.2332	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-6R	6.8	5.841	10/20/2021	5.94	No	43	6.32	0.2332	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-7	6.8	5.841	10/12/2021	6.51	No	43	6.32	0.2332	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-8	6.8	5.841	10/21/2021	6.74	No	43	6.32	0.2332	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-9	6.8	5.841	10/12/2021	6.16	No	43	6.32	0.2332	0	None	No	0.0003761	Param Inter 1 of 2

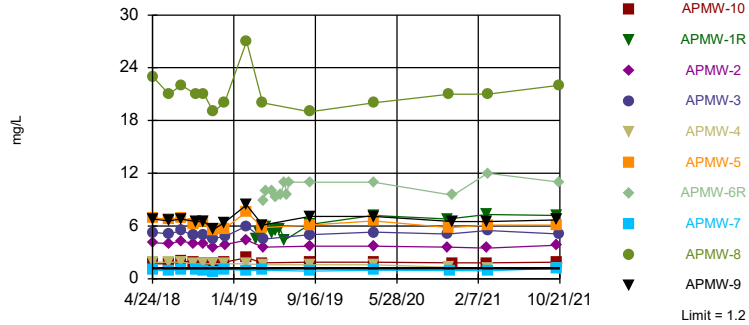
Interwell Prediction Limit - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 12/8/2021, 3:07 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	TransformAlpha	Method	
Sulfate (mg/L)	APMW-10	840	n/a	10/12/2021	4	No	41	n/a	n/a	7.317	n/a	n/a	0.001071	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-1R	840	n/a	10/12/2021	2.5ND	No	41	n/a	n/a	7.317	n/a	n/a	0.001071	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-2	840	n/a	10/12/2021	2.5ND	No	41	n/a	n/a	7.317	n/a	n/a	0.001071	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-3	840	n/a	10/21/2021	1040	Yes	41	n/a	n/a	7.317	n/a	n/a	0.001071	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-4	840	n/a	10/14/2021	290	No	41	n/a	n/a	7.317	n/a	n/a	0.001071	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-5	840	n/a	10/12/2021	900	Yes	41	n/a	n/a	7.317	n/a	n/a	0.001071	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-6R	840	n/a	10/20/2021	835	No	41	n/a	n/a	7.317	n/a	n/a	0.001071	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-7	840	n/a	10/12/2021	13	No	41	n/a	n/a	7.317	n/a	n/a	0.001071	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-8	840	n/a	10/21/2021	615	No	41	n/a	n/a	7.317	n/a	n/a	0.001071	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-9	840	n/a	10/12/2021	270	No	41	n/a	n/a	7.317	n/a	n/a	0.001071	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-10	9200	n/a	10/12/2021	2300	No	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-1R	9200	n/a	10/12/2021	4700	No	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-2	9200	n/a	10/12/2021	4400	No	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-3	9200	n/a	10/21/2021	18000	Yes	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-4	9200	n/a	10/14/2021	5700	No	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-5	9200	n/a	10/12/2021	15000	Yes	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-6R	9200	n/a	10/20/2021	7600	No	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-7	9200	n/a	10/12/2021	6900	No	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-8	9200	n/a	10/21/2021	6600	No	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-9	9200	n/a	10/12/2021	7000	No	42	n/a	n/a	0	n/a	n/a	0.001033	NP Inter (normality) 1 of 2

Exceeds Limit: APMW-10, APMW-1R, APMW-2, APMW-3, APMW-5, APMW-6R, APMW-8, APMW-9

Prediction Limit
Interwell Non-parametric

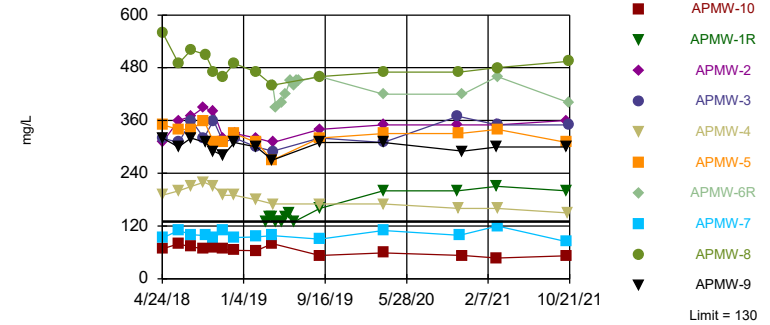


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 42 background values. 21.43% NDs. Annual per-constituent alpha = 0.02045. Individual comparison alpha = 0.001033 (1 of 2). Comparing 10 points to limit.

Constituent: Boron Analysis Run 12/8/2021 3:04 PM View: PLs
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Exceeds Limit: APMW-1R, APMW-2, APMW-3, APMW-4, APMW-5, APMW-6R, APMW-8, APMW-9

Prediction Limit
Interwell Non-parametric

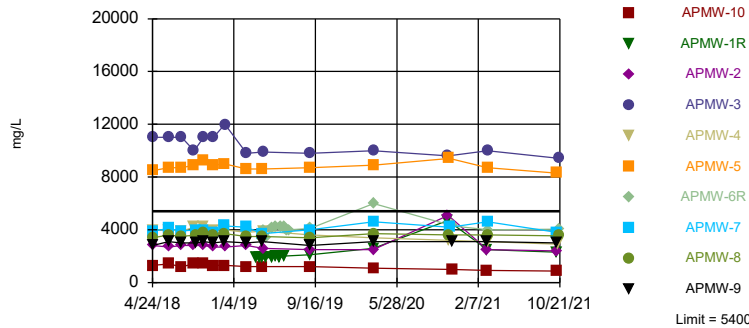


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 42 background values. Annual per-constituent alpha = 0.02045. Individual comparison alpha = 0.001033 (1 of 2). Comparing 10 points to limit.

Constituent: Calcium Analysis Run 12/8/2021 3:04 PM View: PLs
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Exceeds Limit: APMW-3, APMW-5

Prediction Limit
Interwell Non-parametric



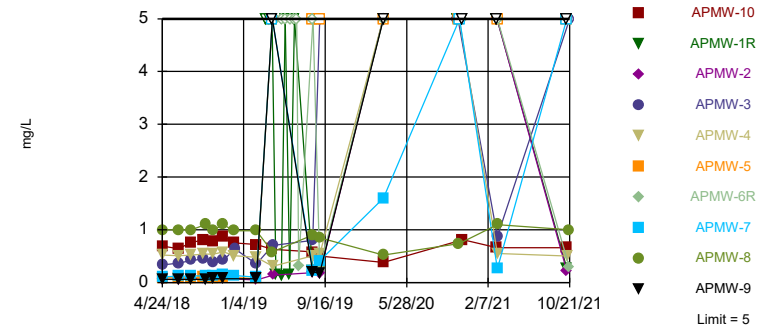
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 42 background values. Annual per-constituent alpha = 0.02045. Individual comparison alpha = 0.001033 (1 of 2). Comparing 10 points to limit.

Constituent: Chloride Analysis Run 12/8/2021 3:04 PM View: PLs
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Interwell Non-parametric

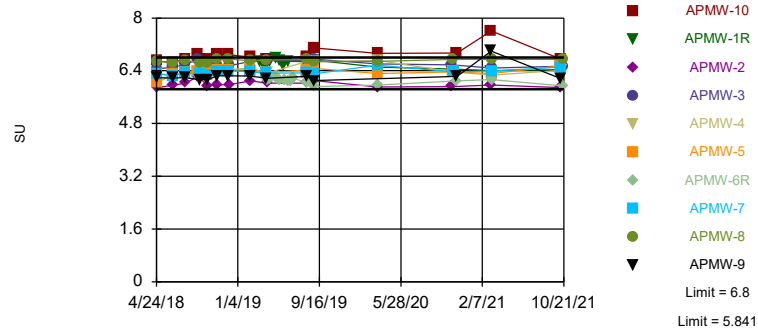


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 44 background values. 25% NDs. Annual per-constituent alpha = 0.01897. Individual comparison alpha = 0.0009571 (1 of 2). Comparing 10 points to limit.

Constituent: Fluoride Analysis Run 12/8/2021 3:04 PM View: PLs
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Within Limits

Prediction Limit
Interwell Parametric

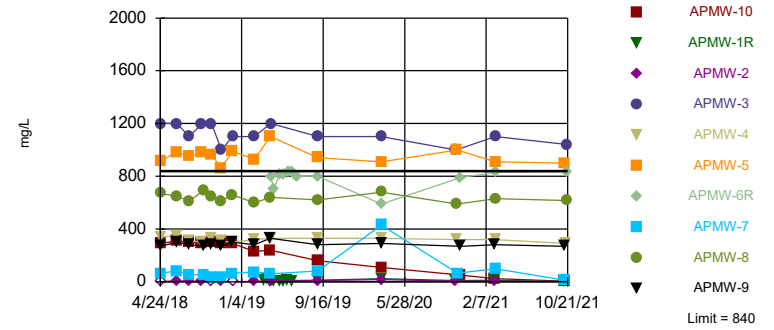


Background Data Summary: Mean=6.32, Std. Dev.=0.2332, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9756, critical = 0.923. Kappa = 2.056 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0003761. Comparing 10 points to limit.

Constituent: pH Analysis Run 12/8/2021 3:04 PM View: PLs
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Hollow symbols indicate censored values.
Exceeds Limit: APMW-3, APMW-5

Prediction Limit
Interwell Non-parametric

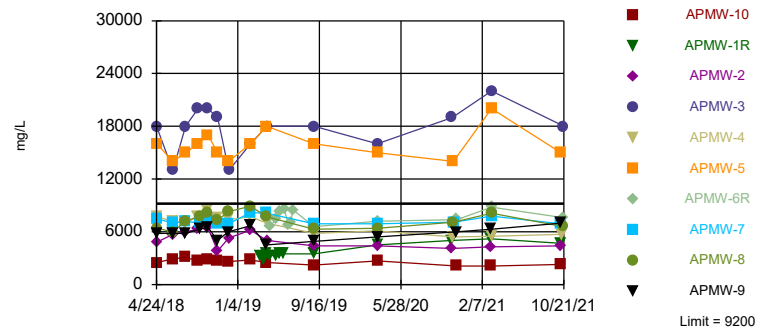


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 41 background values. 7.317% NDs. Annual per-constituent alpha = 0.0212. Individual comparison alpha = 0.001071 (1 of 2). Comparing 10 points to limit.

Constituent: Sulfate Analysis Run 12/8/2021 3:04 PM View: PLs
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Exceeds Limit: APMW-3, APMW-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 42 background values. Annual per-constituent alpha = 0.02045. Individual comparison alpha = 0.001033 (1 of 2). Comparing 10 points to limit.

Constituent: Total Dissolved Solids Analysis Run 12/8/2021 3:04 PM View: PLs
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/8/2021 3:07 PM View: PLs

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-3	APMW-4	APMW-5	APMW-8	APMW-9	APMW-7	APMW-10	APMW-1R
4/24/2018	4.1	5.3	1.9						
4/25/2018				6.9	23	6.8	1	1.7	
6/13/2018						6.6		1.7	
6/14/2018	4	5.1	1.9	6.8	21		0.91		
7/23/2018					22	6.8		2	
7/24/2018	4.3	5.5	1.9	6.9			1		
9/1/2018	4	4.9	1.7	6.2				1.9	
9/6/2018					21	6.5	1.1		
10/1/2018	4	5	1.7						
10/2/2018				6.5	21	6.5	0.95	1.8	
11/1/2018					19	5.6		1.8	
11/2/2018	3.5	4.6	1.7	5.5			0.82		
12/6/2018			1.7	5.7	20	6.4	1.1	1.9	
12/7/2018	3.9	4.8							
2/13/2019	4.4	6	1.7	7.6	27	8.4	0.95	2.4	
3/16/2019									4.5
3/27/2019									5.2
4/3/2019									5.3
4/4/2019				5.8	20	6.1	0.98	1.8	
4/5/2019	3.6	4.5	1.6						
4/15/2019									5.9
4/16/2019									
5/2/2019									5.3
5/3/2019									
5/14/2019									5.5
5/28/2019									5.7
5/29/2019									
6/12/2019									4.4
6/19/2019									
6/25/2019									
8/29/2019									
8/30/2019	3.7	5	1.6	6.1	19	7.1	0.88	1.9	6.2
3/16/2020	3.7	5.3	1.6						7.2
3/17/2020				6.6	20	7.1	0.98	1.9	
7/21/2020									
7/30/2020									
11/3/2020									
11/4/2020									6.8
11/5/2020	3.6	5.1							
11/9/2020			1.3	5.8	21				
11/10/2020							0.94		
11/20/2020						6.5		1.8	
3/8/2021	3.5					6.5		1.8	7.3
3/9/2021		5.5	1.2	6.1	21		0.91		
3/10/2021									
10/11/2021									
10/12/2021	3.8			6.1		6.7	1.2	1.9	7.2
10/14/2021			1.2						
10/15/2021									
10/20/2021									
10/21/2021		5.1			22				

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/8/2021 3:07 PM View: PLs
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-11 (bg)	APMW-12 (bg)	APMW-6R	APMW-14 (bg)	APMW-13 (bg)	APMW-15 (bg)	APMW-16 (bg)
4/24/2018							
4/25/2018							
6/13/2018							
6/14/2018							
7/23/2018							
7/24/2018							
9/1/2018							
9/6/2018							
10/1/2018							
10/2/2018							
11/1/2018							
11/2/2018							
12/6/2018							
12/7/2018							
2/13/2019							
3/16/2019	0.028 (J)	0.035 (J)					
3/27/2019	0.027 (JD)	0.033 (JD)					
4/3/2019	0.089 (D)	0.023 (JD)					
4/4/2019							
4/5/2019			8.9 (D)				
4/15/2019			10				
4/16/2019	<0.08	<0.08					
5/2/2019			10				
5/3/2019	<0.08	0.021 (J)					
5/14/2019	<0.08	<0.08	9.3				
5/28/2019							
5/29/2019	0.034 (J)	0.044 (J)	9.5				
6/12/2019	0.05 (J)	0.047 (J)	11				
6/19/2019			9.5				
6/25/2019			11				
8/29/2019	<0.08	<0.08					
8/30/2019			11				
3/16/2020							
3/17/2020	0.057 (J)	0.057 (J)	11				
7/21/2020				0.718	0.58	0.609	
7/30/2020							0.62
11/3/2020					1.2		
11/4/2020				0.85	0.88		1.2
11/5/2020							
11/9/2020	<0.08						
11/10/2020							
11/20/2020		0.098	9.5				
3/8/2021				0.71	0.63	0.59	0.6
3/9/2021			12				
3/10/2021	<0.08	0.046 (J)					
10/11/2021	0.053 (J)	0.045 (J)					
10/12/2021							
10/14/2021							
10/15/2021				0.78			0.77
10/20/2021			11		0.64	0.65	
10/21/2021							

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/8/2021 3:07 PM View: PLs

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-3	APMW-4	APMW-5	APMW-8	APMW-9	APMW-7	APMW-10	APMW-1R
4/24/2018	310	320	190						
4/25/2018				350	560	320	93	68	
6/13/2018						300		79	
6/14/2018	360	310	200	340	490		110		
7/23/2018					520	320		73	
7/24/2018	370	360	210	340			100		
9/1/2018	390	320	220	360				68	
9/6/2018					510	310	98		
10/1/2018	380	360	210						
10/2/2018				310	470	290	93	71	
11/1/2018					460	280		67	
11/2/2018	320	310	190	310			110		
12/6/2018			190	330	490	310	94	65	
12/7/2018	330	320							
2/13/2019	320	300	180	310	470	300	95	64	
3/16/2019									130
3/27/2019									140
4/3/2019									140
4/4/2019				270	440	270	98	80	
4/5/2019	310	290	170						
4/15/2019									130
4/16/2019									
5/2/2019									130
5/3/2019									
5/14/2019									140
5/28/2019									150
5/29/2019									
6/12/2019									130
6/19/2019									
6/25/2019									
8/29/2019									
8/30/2019	340	320	170	320	460	310	90	53	160
3/16/2020	350	310	170						200
3/17/2020				330	470	310	110	59	
7/21/2020									
7/30/2020									
11/3/2020									
11/4/2020									200
11/5/2020	350	370							
11/9/2020			160	330	470				
11/10/2020							99		
11/20/2020						290		53	
3/8/2021	350					300		47	210
3/9/2021		350	160	340	480		120		
3/10/2021									
10/11/2021									
10/12/2021	360			310		300	84	52	200
10/14/2021			150						
10/15/2021									
10/20/2021									
10/21/2021		350 (D)			495 (D)				

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/8/2021 3:07 PM View: PLs
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-11 (bg)	APMW-12 (bg)	APMW-6R	APMW-14 (bg)	APMW-13 (bg)	APMW-15 (bg)	APMW-16 (bg)
4/24/2018							
4/25/2018							
6/13/2018							
6/14/2018							
7/23/2018							
7/24/2018							
9/1/2018							
9/6/2018							
10/1/2018							
10/2/2018							
11/1/2018							
11/2/2018							
12/6/2018							
12/7/2018							
2/13/2019							
3/16/2019	17	13					
3/27/2019	16 (D)	15 (D)					
4/3/2019	15 (D)	13 (D)					
4/4/2019							
4/5/2019			440 (D)				
4/15/2019			390				
4/16/2019	13	12					
5/2/2019			400				
5/3/2019	12	13					
5/14/2019	14	13	420				
5/28/2019							
5/29/2019	7	15	450				
6/12/2019	13	14	440				
6/19/2019			450				
6/25/2019			450				
8/29/2019	9.4	12					
8/30/2019			460				
3/16/2020							
3/17/2020	9.8	12	420				
7/21/2020				127	97.7	81.7	
7/30/2020							99.2
11/3/2020						120	
11/4/2020				120	110		130
11/5/2020							
11/9/2020	11						
11/10/2020							
11/20/2020		12	420				
3/8/2021				110	92	69	69
3/9/2021			460				
3/10/2021	12	12					
10/11/2021	11	12					
10/12/2021							
10/14/2021							
10/15/2021				110			75
10/20/2021			400 (D)		97	68 (D)	
10/21/2021							

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 12/8/2021 3:07 PM View: PLs

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-3	APMW-4	APMW-5	APMW-8	APMW-9	APMW-7	APMW-10	APMW-1R
4/24/2018	2800	11000	4000						
4/25/2018				8500	3400	2800	3900	1300	
6/13/2018						3100		1400	
6/14/2018	2700	11000	4000	8700	3600		4100		
7/23/2018					3500	3000		1200	
7/24/2018	2800	11000	3900	8700			3900		
9/1/2018	2800	10000	4200	8900				1400	
9/6/2018					3600	3000	4000		
10/1/2018	2800	11000	4200						
10/2/2018				9300	3800	3100	4000	1400	
11/1/2018					3600	3000		1300	
11/2/2018	2700	11000	4000	8900			3800		
12/6/2018			4000	9000	3700	3100	4300	1300	
12/7/2018	2700	12000							
2/13/2019	2800	9800	3800	8600	3500	3000	4200	1200	
3/16/2019									1900
3/27/2019									1900
4/3/2019									1900
4/4/2019				8600	3500	3100	3700	1200	
4/5/2019	2600	9900	3900						
4/15/2019									1900
4/16/2019									
5/2/2019									1900
5/3/2019									
5/14/2019									2000
5/28/2019									1900
5/29/2019									
6/12/2019									2000
6/19/2019									
6/25/2019									
8/29/2019									
8/30/2019	2500	9800	3600	8700	3400	2800	4000	1200	2100
3/16/2020	2500	10000	3400						2600
3/17/2020				8900	3700	3100	4600	1100	
7/21/2020									
7/30/2020									
11/3/2020									
11/4/2020									4700
11/5/2020	5100	9600							
11/9/2020			3200	9400	3600				
11/10/2020							4200		
11/20/2020						3100		1000	
3/8/2021	2500					3100		920	2500
3/9/2021		10000	3100	8700	3600		4600		
3/10/2021									
10/11/2021									
10/12/2021	2400			8300		3000	3800	860	2300
10/14/2021			2900						
10/15/2021									
10/20/2021									
10/21/2021		9400 (D)			3550 (D)				

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 12/8/2021 3:07 PM View: PLs

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-11 (bg)	APMW-12 (bg)	APMW-6R	APMW-14 (bg)	APMW-13 (bg)	APMW-15 (bg)	APMW-16 (bg)
4/24/2018							
4/25/2018							
6/13/2018							
6/14/2018							
7/23/2018							
7/24/2018							
9/1/2018							
9/6/2018							
10/1/2018							
10/2/2018							
11/1/2018							
11/2/2018							
12/6/2018							
12/7/2018							
2/13/2019							
3/16/2019	9.3	14					
3/27/2019	8.2 (D)	15 (D)					
4/3/2019	8.7 (D)	15 (D)					
4/4/2019							
4/5/2019			4000 (D)				
4/15/2019			3400				
4/16/2019	8.7	14					
5/2/2019			4100				
5/3/2019	9.3	15					
5/14/2019	8.8	15	4200				
5/28/2019							
5/29/2019	8.8	14	4200				
6/12/2019	8.8	15	4200				
6/19/2019			4000				
6/25/2019			4000				
8/29/2019	8.1	14					
8/30/2019			4100				
3/16/2020							
3/17/2020	8.2	14	6000				
7/21/2020				2920	1470	2910	
7/30/2020							2830
11/3/2020						4900	
11/4/2020				3100	5400		4700
11/5/2020							
11/9/2020	9.1						
11/10/2020							
11/20/2020		16	4300				
3/8/2021				3000	1600	2900	2600
3/9/2021			4000				
3/10/2021	8.9	15					
10/11/2021	8.9	15					
10/12/2021							
10/14/2021							
10/15/2021				2800			3100
10/20/2021			4050 (D)		3400	4100 (D)	
10/21/2021							

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/8/2021 3:07 PM View: PLs
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-3	APMW-4	APMW-5	APMW-8	APMW-9	APMW-7	APMW-10	APMW-11 (bg)
10/21/2021		<5			1 (J)				

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/8/2021 3:07 PM View: PLs
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-12 (bg)	APMW-1R	APMW-6R	APMW-15 (bg)	APMW-13 (bg)	APMW-14 (bg)	APMW-16 (bg)
4/24/2018							
4/25/2018							
6/13/2018							
6/14/2018							
7/23/2018							
7/24/2018							
9/1/2018							
9/6/2018							
10/1/2018							
10/2/2018							
11/1/2018							
11/2/2018							
12/6/2018							
12/7/2018							
2/13/2019							
3/16/2019	0.041 (J)	<5					
3/27/2019	0.49 (D)	<5					
4/3/2019	0.086 (JD)	<5					
4/4/2019							
4/5/2019			<5 (D)				
4/15/2019		0.14 (J)	<5				
4/16/2019	0.055 (J)						
5/2/2019		0.13 (J)	<5				
5/3/2019	0.058 (J)						
5/14/2019	0.071 (J)	<5	<5				
5/28/2019		0.16 (J)					
5/29/2019	0.042 (J)		<5				
6/12/2019	0.037 (J)	<5	<5				
6/19/2019			<5				
6/25/2019			0.32 (J)				
8/8/2019	0.072 (J)	0.21 (J)					
8/9/2019			<5				
8/29/2019	0.065 (J)						
8/30/2019		0.21 (J)	0.27 (J)				
3/16/2020		<5					
3/17/2020	0.036 (J)		<5				
7/21/2020				0.17	0.09 (J)	0.07 (J)	
7/30/2020							0.19
11/3/2020				<5			
11/4/2020		<5			0.24 (J)	<5	<5
11/5/2020							
11/9/2020							
11/10/2020							
11/20/2020	<5		<5				
3/8/2021		<5		0.41 (J)	0.17 (J)	<5	0.28 (J)
3/9/2021			<5				
3/10/2021	0.052 (J)						
10/11/2021	0.079 (J)						
10/12/2021		0.27 (J)					
10/14/2021							
10/15/2021						0.19 (J)	0.44 (J)
10/20/2021			0.29 (J)	0.25 (J)	0.14 (J)		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/8/2021 3:07 PM View: PLs
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

APMW-12 (bg) APMW-1R APMW-6R APMW-15 (bg) APMW-13 (bg) APMW-14 (bg) APMW-16 (bg)

10/21/2021

Prediction Limit

Constituent: pH (SU) Analysis Run 12/8/2021 3:07 PM View: PLs
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-3	APMW-4	APMW-5	APMW-8	APMW-9	APMW-7	APMW-10	APMW-12 (bg)
10/21/2021		6.54			6.74				

Prediction Limit

Constituent: pH (SU) Analysis Run 12/8/2021 3:07 PM View: PLs
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-1R	APMW-11 (bg)	APMW-6R	APMW-14 (bg)	APMW-13 (bg)	APMW-15 (bg)	APMW-16 (bg)
4/24/2018							
4/25/2018							
6/13/2018							
6/14/2018							
7/23/2018							
7/24/2018							
9/1/2018							
9/6/2018							
10/1/2018							
10/2/2018							
11/1/2018							
11/2/2018							
12/6/2018							
12/7/2018							
2/13/2019							
3/16/2019	6.67	6.97					
3/27/2019	6.59	6.7					
4/3/2019	6.56	6.45					
4/4/2019							
4/5/2019			6.12				
4/15/2019	6.68		6.14				
4/16/2019		6.52					
5/2/2019	6.78		6.19				
5/3/2019		6.37					
5/14/2019	6.7	6.57	6.12				
5/28/2019	6.56						
5/29/2019		6.31	6.11				
6/12/2019	6.69	6.41	6.09				
6/19/2019			6.1				
6/25/2019			6.18				
8/8/2019	6.68	6.29					
8/9/2019			6.03				
8/29/2019		6.2					
8/30/2019	6.72		5.92				
3/16/2020	6.51						
3/17/2020		6.2	5.97				
7/21/2020				6.08	6.01	6.51	
7/30/2020							6.48
11/3/2020						6.51	
11/4/2020	6.45			6.03	6.01		6.58
11/5/2020							
11/9/2020		6.21					
11/10/2020							
11/20/2020			6.09				
3/8/2021	6.4			5.99	5.97	6.41	6.48
3/9/2021			6.13				
3/10/2021		6.29					
10/11/2021		6.13					
10/12/2021	6.43						
10/14/2021							
10/15/2021				5.97			6.55
10/20/2021			5.94		5.89	6.54	

Prediction Limit

Constituent: pH (SU) Analysis Run 12/8/2021 3:07 PM View: PLs
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

APMW-1R

APMW-11 (bg)

APMW-6R

APMW-14 (bg)

APMW-13 (bg)

APMW-15 (bg)

APMW-16 (bg)

10/21/2021

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/8/2021 3:07 PM View: PLs

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-3	APMW-4	APMW-5	APMW-8	APMW-9	APMW-7	APMW-10	APMW-11 (bg)
4/24/2018	<5	1200	340						
4/25/2018				920	670	270	65	290	
6/13/2018						300		310	
6/14/2018	7.2	1200	350	980	650		81		
7/23/2018					610	280		300	
7/24/2018	2.7 (J)	1100	310	950			52		
9/1/2018	1.5 (J)	1200	300	980				290	
9/6/2018					690	270	53		
10/1/2018	<5	1200	330						
10/2/2018				960	650	280	34	300	
11/1/2018					610	270		290	
11/2/2018	1.9 (J)	1000	310	860			35		
12/6/2018			300	990	660	300	65	290	
12/7/2018	<5	1100							
2/13/2019	1.5 (J)	1100	320	930	600	280	74	230	
3/16/2019									3.6
3/27/2019									0.81 (JD)
4/3/2019									1.1 (D)
4/4/2019				1100	640	330	61	240	
4/5/2019	7	1200	330						
4/15/2019									
4/16/2019									0.68 (J)
5/2/2019									
5/3/2019									1.1
5/14/2019									1.3
5/28/2019									
5/29/2019									2.1
6/12/2019									1.9
6/19/2019									
6/25/2019									
8/29/2019									2.3
8/30/2019	8.4	1100	330	940	620	280	83	160	
3/16/2020	16	1100	330						
3/17/2020				910	680	290	430	110	3.7
7/21/2020									
7/30/2020									
11/3/2020									
11/4/2020									
11/5/2020	4.4 (J)	1000							
11/9/2020			320	1000	590				0.51 (J)
11/10/2020							64		
11/20/2020						270		50	
3/8/2021	5.7					280		24	
3/9/2021		1100	320	910	630		100		
3/10/2021									<5
10/11/2021									<5
10/12/2021	<5			900		270	13	4	
10/14/2021			290						
10/15/2021									
10/20/2021									
10/21/2021		1040 (D)			615 (D)				

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/8/2021 3:07 PM View: PLs
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-12 (bg)	APMW-1R	APMW-6R	APMW-14 (bg)	APMW-15 (bg)	APMW-13 (bg)	APMW-16 (bg)
4/24/2018							
4/25/2018							
6/13/2018							
6/14/2018							
7/23/2018							
7/24/2018							
9/1/2018							
9/6/2018							
10/1/2018							
10/2/2018							
11/1/2018							
11/2/2018							
12/6/2018							
12/7/2018							
2/13/2019							
3/16/2019	0.88 (J)	14					
3/27/2019	1.3 (D)	19					
4/3/2019	1.9 (D)	4.6 (J)					
4/4/2019							
4/5/2019			800 (D)				
4/15/2019		8.6	700				
4/16/2019	2.5						
5/2/2019		6	810				
5/3/2019	1.3						
5/14/2019	2.2	5.8	810				
5/28/2019		9.4					
5/29/2019	1.2		830				
6/12/2019	1.1	8.8	830				
6/19/2019			810				
6/25/2019			800				
8/29/2019	1.1						
8/30/2019		13	800				
3/16/2020		23					
3/17/2020	3.2		590				
7/21/2020				713	52.9	802	
7/30/2020							33.4
11/3/2020					550		
11/4/2020		10		670		1700 (o)	440
11/5/2020							
11/9/2020							
11/10/2020							
11/20/2020	0.79 (J)		790				
3/8/2021		12		740	97	720	72
3/9/2021			830				
3/10/2021	1.1						
10/11/2021	<5						
10/12/2021		<5					
10/14/2021							
10/15/2021				730			55
10/20/2021			835 (D)		91.5 (D)	840	
10/21/2021							

Prediction Limit

Constituent: T Total Dissolved Solids (mg/L) Analysis Run 12/8/2021 3:07 PM View: PLs

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-3	APMW-4	APMW-5	APMW-8	APMW-9	APMW-7	APMW-10	APMW-12 (bg)
4/24/2018	4800	18000	7700						
4/25/2018				16000	6400	5800	7500	2500	
6/13/2018						5800		2900	
6/14/2018	5700	13000	7200	14000	6000		7000		
7/23/2018					7200	5800		3100	
7/24/2018	6000	18000	7000	15000			7200		
9/1/2018	6300	20000	7800	16000				2700	
9/6/2018					7800	6300	7000		
10/1/2018	6500	20000	8400						
10/2/2018				17000	8200	6500	7400	2900	
11/1/2018					7300	5000		2700	
11/2/2018	3800	19000	7600	15000			6900		
12/6/2018			7400	14000	8300	6000	6900	2600	
12/7/2018	5300	13000							
2/13/2019	6200	16000	7700	16000	8900	6700	8200	2800	
3/16/2019									150
3/27/2019									110 (D)
4/3/2019									150 (D)
4/4/2019				18000	7700	4500	8100	2500	
4/5/2019	5000	18000	7000						
4/15/2019									
4/16/2019									150
5/2/2019									
5/3/2019									130
5/14/2019									150
5/28/2019									
5/29/2019									180
6/12/2019									130
6/19/2019									
6/25/2019									
8/29/2019									110
8/30/2019	4400	18000	5800	16000	6300	4900	6900	2200	
3/16/2020	4400	16000	6100						
3/17/2020				15000	6400	5400	6900	2700	120
7/21/2020									
7/30/2020									
11/3/2020									
11/4/2020									
11/5/2020	4100	19000							
11/9/2020			5400	14000	7100				
11/10/2020							7100		
11/20/2020						6000		2100	160
3/8/2021	4300					6300		2100	
3/9/2021		22000	5500	20000	8100		7800		
3/10/2021									140
10/11/2021									120
10/12/2021	4400			15000		7000	6900	2300	
10/14/2021			5700						
10/15/2021									
10/20/2021									
10/21/2021		18000			6600				

Prediction Limit

Constituent: T Total Dissolved Solids (mg/L) Analysis Run 12/8/2021 3:07 PM View: PLS
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-1R	APMW-11 (bg)	APMW-6R	APMW-15 (bg)	APMW-14 (bg)	APMW-13 (bg)	APMW-16 (bg)
4/24/2018							
4/25/2018							
6/13/2018							
6/14/2018							
7/23/2018							
7/24/2018							
9/1/2018							
9/6/2018							
10/1/2018							
10/2/2018							
11/1/2018							
11/2/2018							
12/6/2018							
12/7/2018							
2/13/2019							
3/16/2019	3300	120					
3/27/2019	2900	63 (D)					
4/3/2019	3600	100 (D)					
4/4/2019							
4/5/2019			7800 (D)				
4/15/2019	3300		6600				
4/16/2019		110					
5/2/2019	3300		7400				
5/3/2019		91					
5/14/2019	3600	120	8300				
5/28/2019	3500						
5/29/2019		140	8600				
6/12/2019		100	6800				
6/19/2019			7100				
6/25/2019			8500				
8/29/2019		73					
8/30/2019	3500		6600				
3/16/2020	4500						
3/17/2020		95	7200				
7/21/2020				5400	6350	3760	
7/30/2020							5020
11/3/2020				9200			
11/4/2020	5000				6500	5400	8500
11/5/2020							
11/9/2020		68					
11/10/2020							
11/20/2020			7400				
3/8/2021	5200			6200	6800	3600	5100
3/9/2021			8800				
3/10/2021		89					
10/11/2021		80					
10/12/2021	4700						
10/14/2021							
10/15/2021					5700		5700
10/20/2021			7600	5200		3400	
10/21/2021							

FIGURE E.

Trend Tests - Significant Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 12/8/2021, 3:13 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	APMW-1R	1.078	52	43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-1R	37.47	48	43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-4	-15.67	-67	-48	Yes	14	0	n/a	n/a	0.01	NP

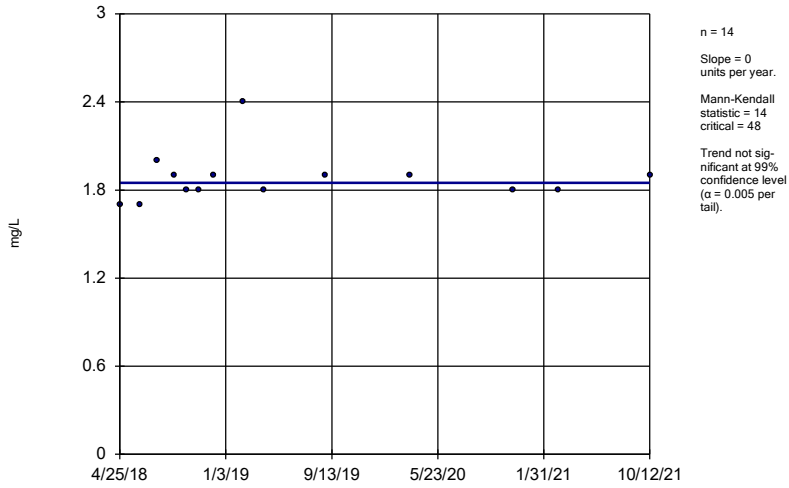
Trend Tests - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 12/8/2021, 3:13 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	APMW-10	0	14	48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-11 (bg)	0.00527	23	43	No	13	46.15	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-12 (bg)	0.01748	43	43	No	13	23.08	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-1R	1.078	52	43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-2	-0.1906	-41	-48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-3	0	3	48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-5	-0.2101	-24	-48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-6R	0.9237	36	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-8	0	-12	-48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-9	0	-3	-48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-11 (bg)	-2.517	-41	-43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-12 (bg)	-0.4589	-30	-43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-1R	37.47	48	43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-2	0	5	48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-3	0	6	48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-4	-15.67	-67	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-5	-6.063	-23	-48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-6R	8.114	17	43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-8	-11.97	-25	-48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-9	-4.435	-23	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-11 (bg)	0.02072	7	43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-12 (bg)	0	11	43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-3	-380.6	-45	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-5	0	3	48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-11 (bg)	-0.1015	-10	-43	No	13	15.38	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-12 (bg)	-0.289	-24	-43	No	13	7.692	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-3	-36.54	-37	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-5	-9.669	-13	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-11 (bg)	-9.062	-22	-43	No	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-12 (bg)	-2.046	-9	-43	No	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-3	0	11	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-5	0	6	48	No	14	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

APMW-10

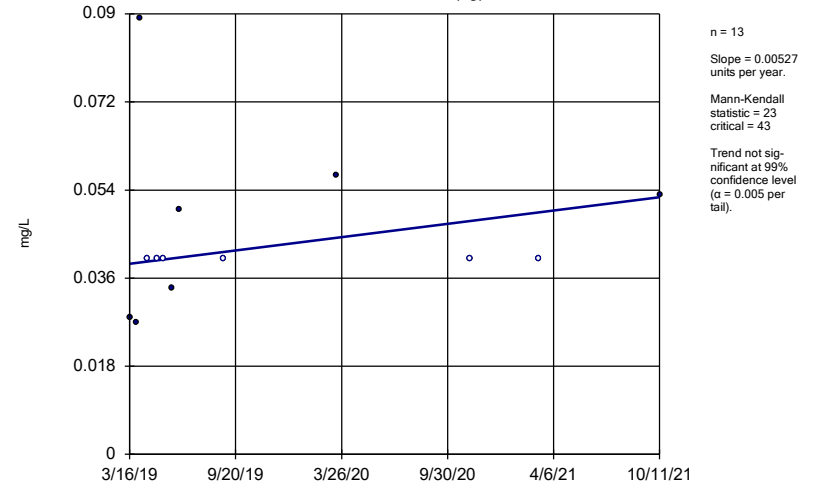


Constituent: Boron Analysis Run 12/8/2021 3:09 PM View: Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Hollow symbols indicate censored values.

Sen's Slope Estimator

APMW-11 (bg)

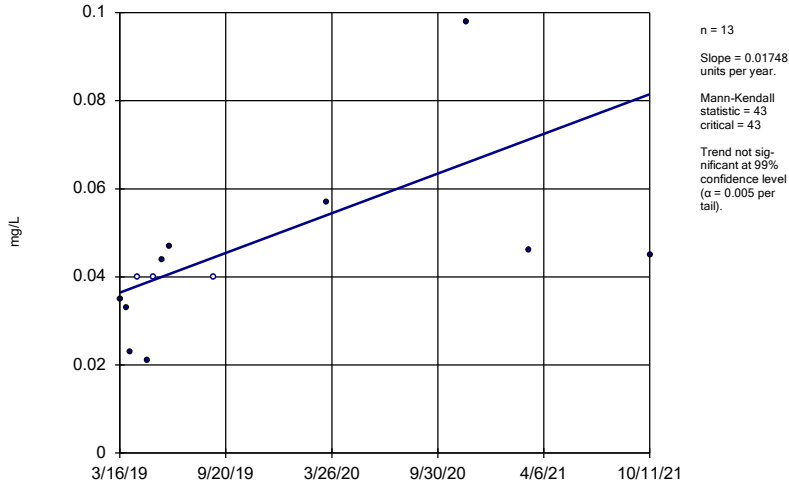


Constituent: Boron Analysis Run 12/8/2021 3:09 PM View: Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Hollow symbols indicate censored values.

Sen's Slope Estimator

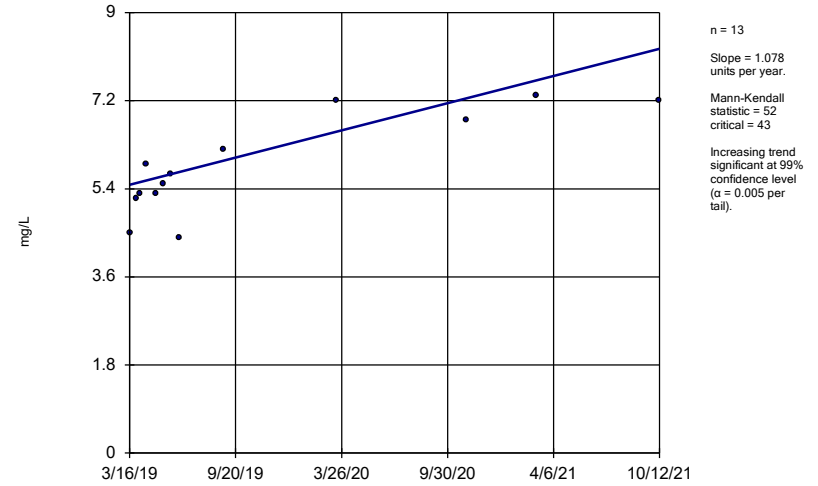
APMW-12 (bg)



Constituent: Boron Analysis Run 12/8/2021 3:09 PM View: Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

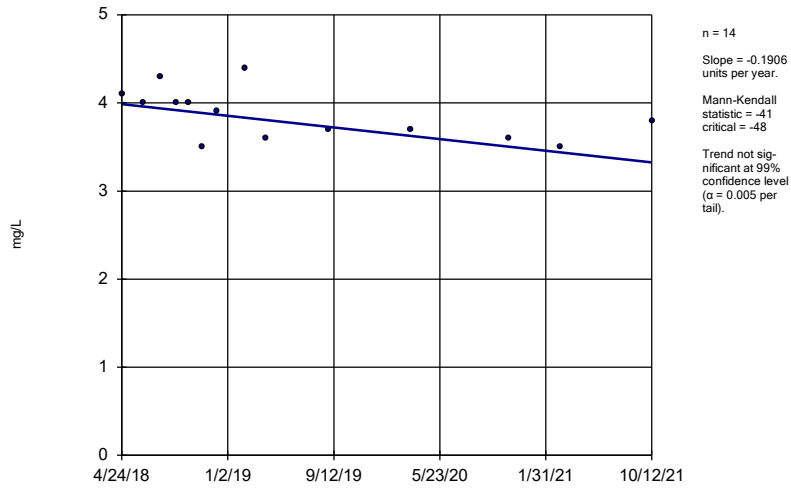
APMW-1R



Constituent: Boron Analysis Run 12/8/2021 3:09 PM View: Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

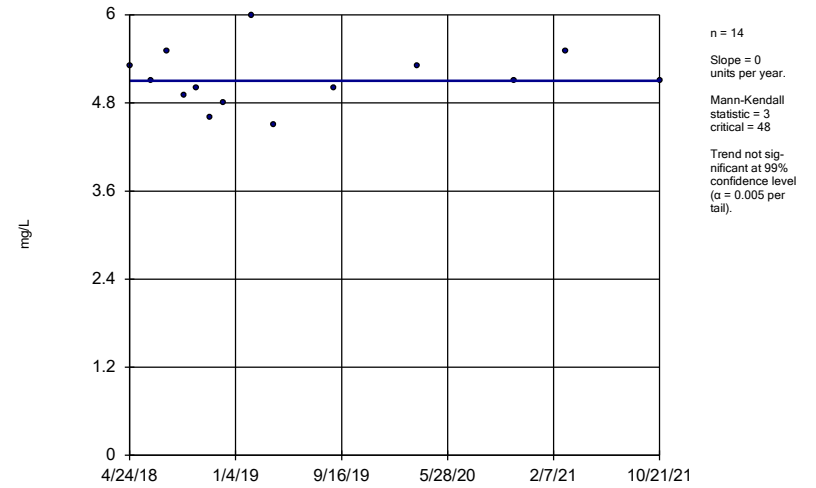
APMW-2



Constituent: Boron Analysis Run 12/8/2021 3:09 PM View: Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

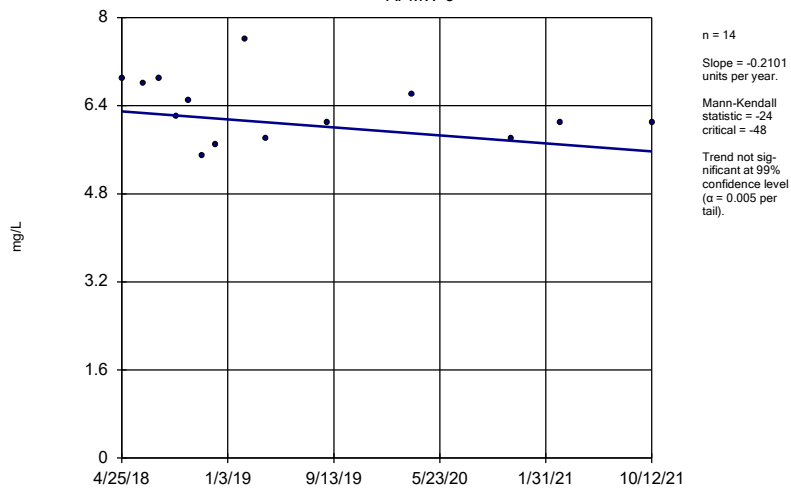
APMW-3



Constituent: Boron Analysis Run 12/8/2021 3:09 PM View: Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

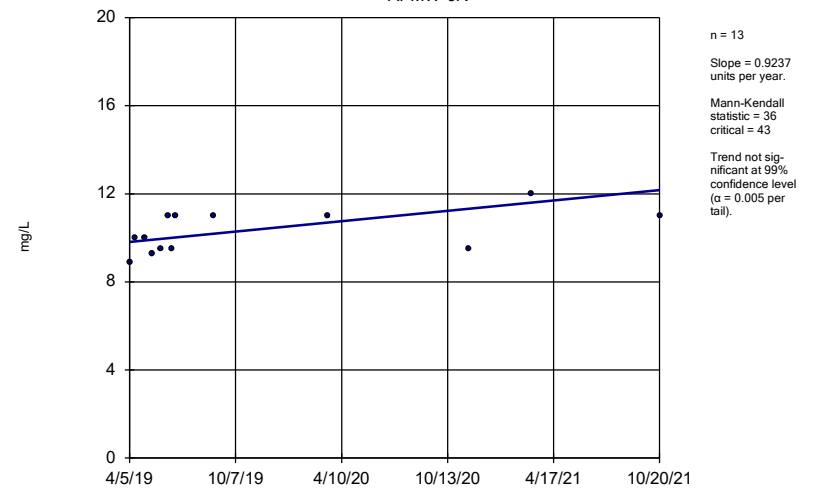
APMW-5



Constituent: Boron Analysis Run 12/8/2021 3:09 PM View: Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

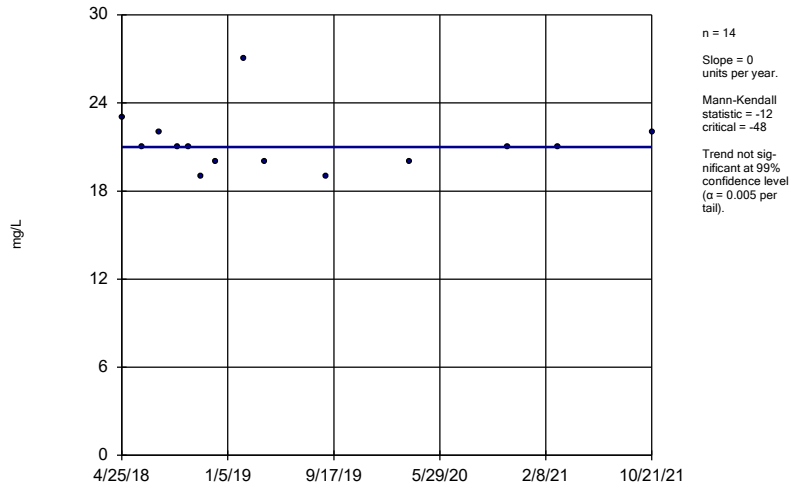
APMW-6R



Constituent: Boron Analysis Run 12/8/2021 3:09 PM View: Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

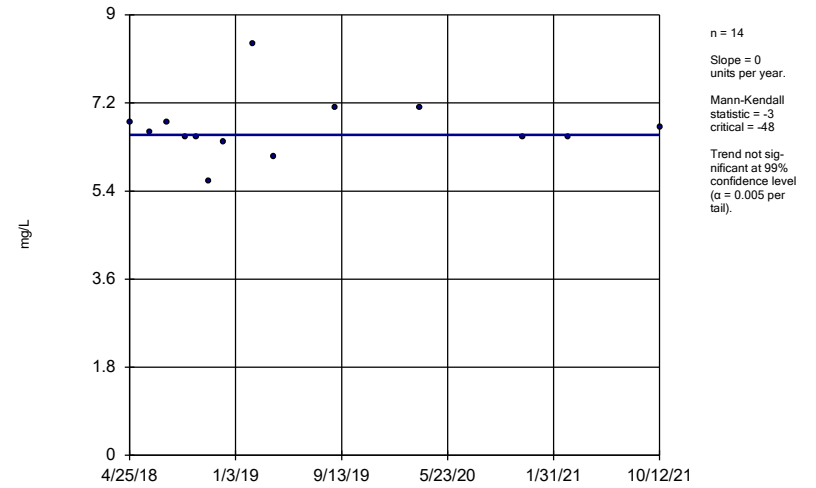
APMW-8



Constituent: Boron Analysis Run 12/8/2021 3:09 PM View: Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

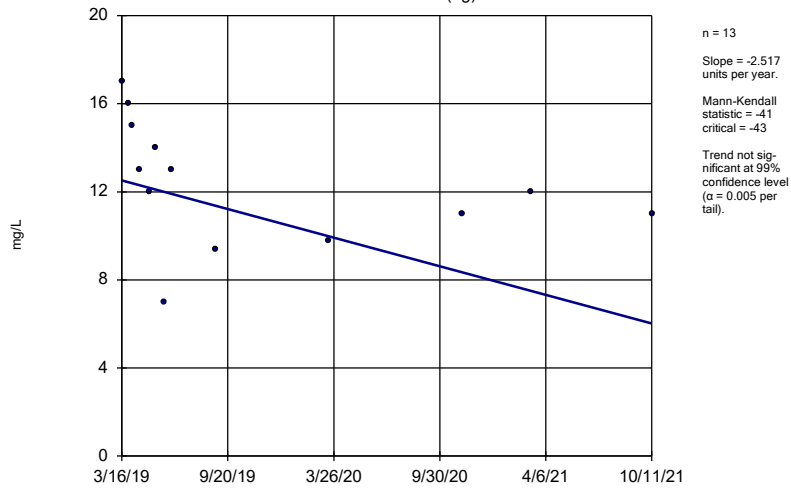
APMW-9



Constituent: Boron Analysis Run 12/8/2021 3:09 PM View: Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

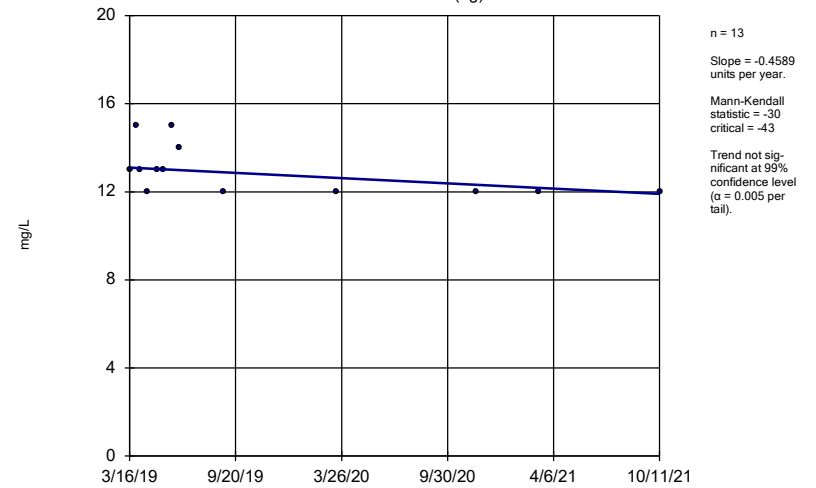
APMW-11 (bg)



Constituent: Calcium Analysis Run 12/8/2021 3:09 PM View: Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

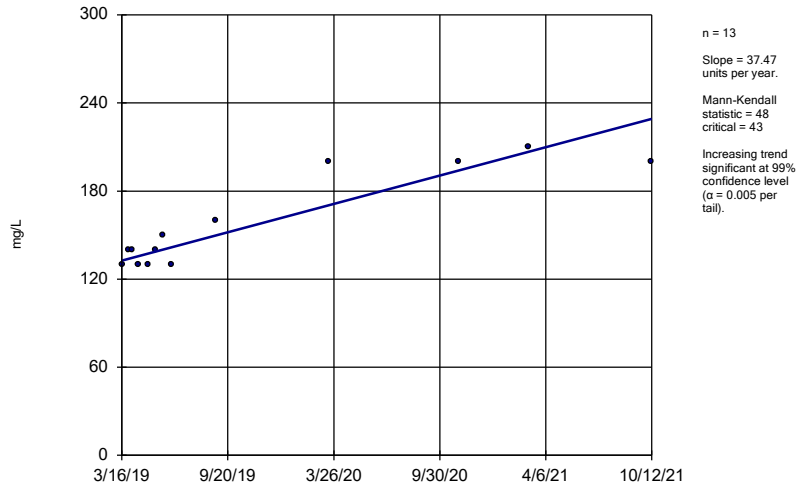
APMW-12 (bg)



Constituent: Calcium Analysis Run 12/8/2021 3:09 PM View: Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

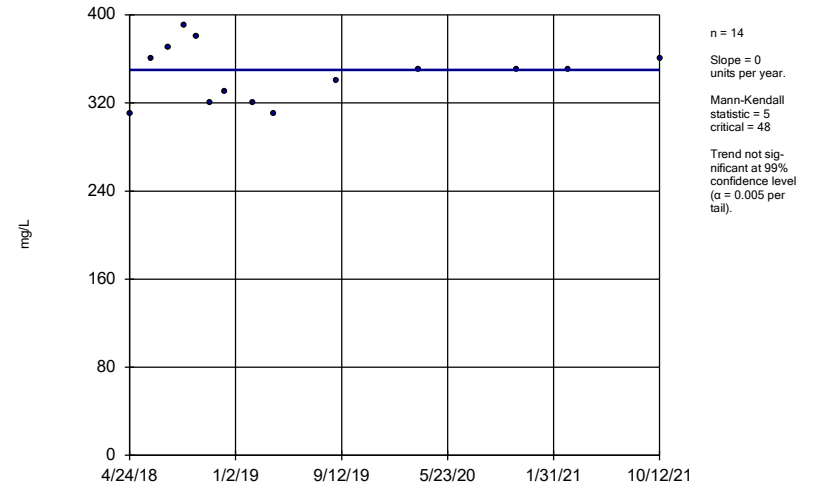
APMW-1R



Constituent: Calcium Analysis Run 12/8/2021 3:09 PM View: Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

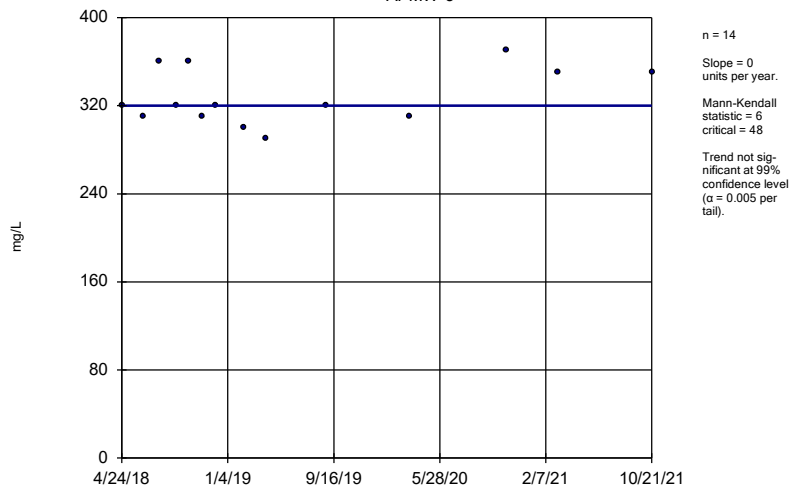
APMW-2



Constituent: Calcium Analysis Run 12/8/2021 3:09 PM View: Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

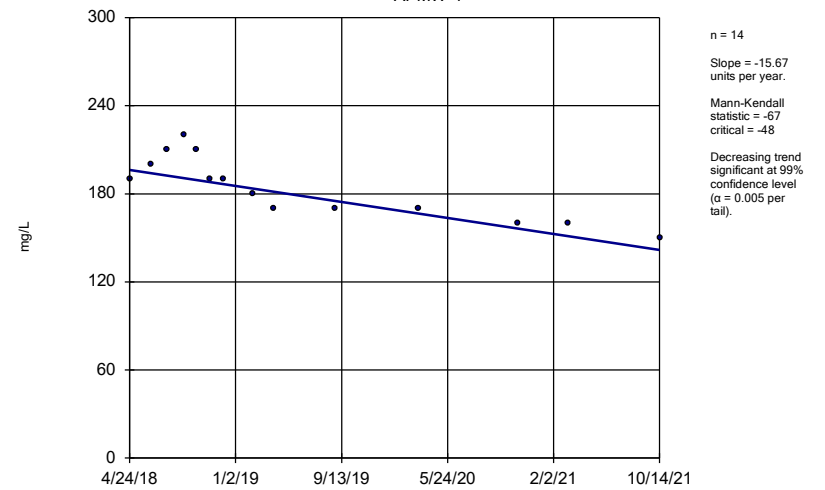
APMW-3



Constituent: Calcium Analysis Run 12/8/2021 3:09 PM View: Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

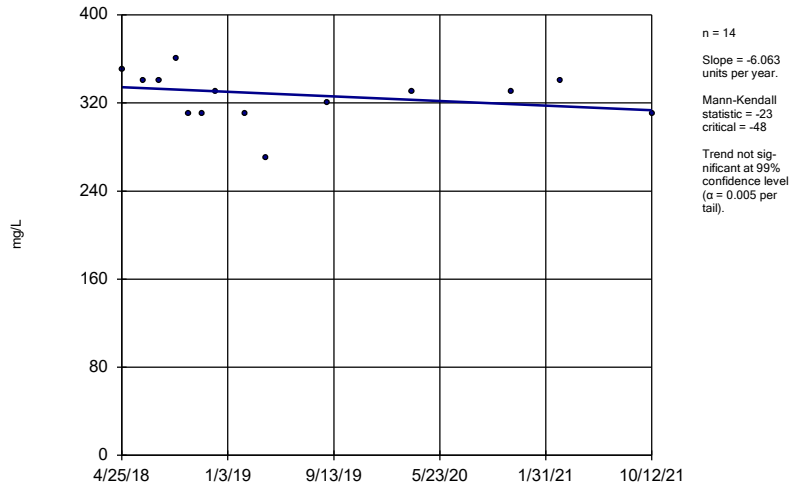
APMW-4



Constituent: Calcium Analysis Run 12/8/2021 3:09 PM View: Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

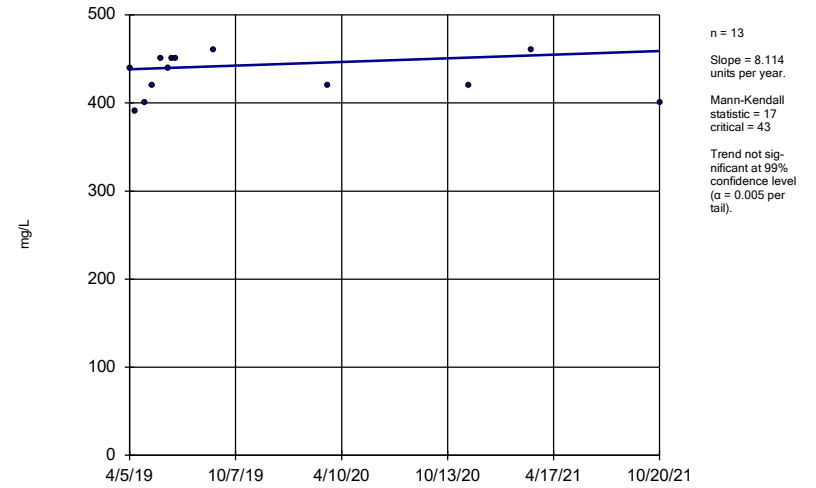
APMW-5



Constituent: Calcium Analysis Run 12/8/2021 3:09 PM View: Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

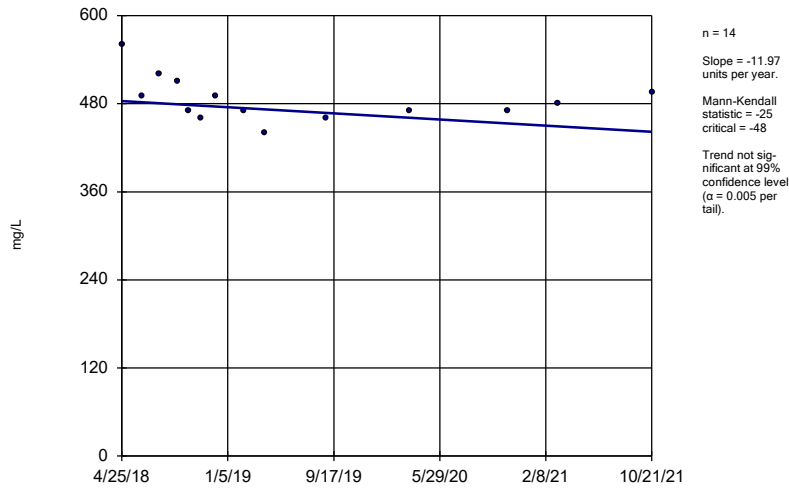
APMW-6R



Constituent: Calcium Analysis Run 12/8/2021 3:09 PM View: Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

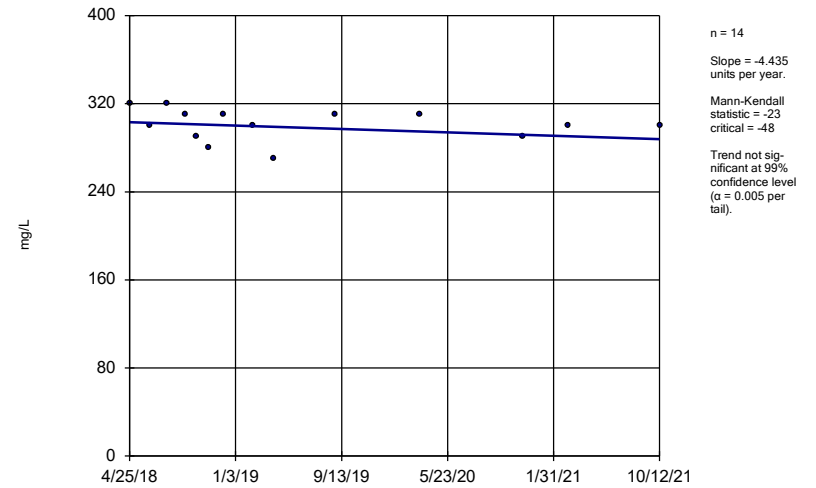
APMW-8



Constituent: Calcium Analysis Run 12/8/2021 3:09 PM View: Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

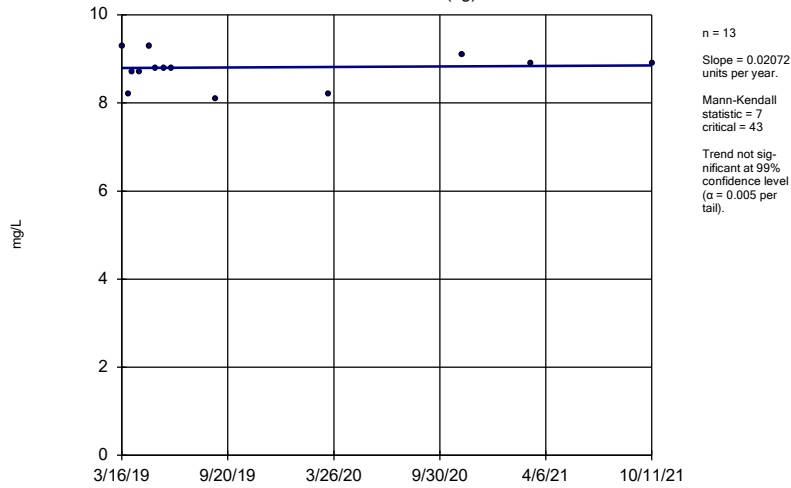
APMW-9



Constituent: Calcium Analysis Run 12/8/2021 3:09 PM View: Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

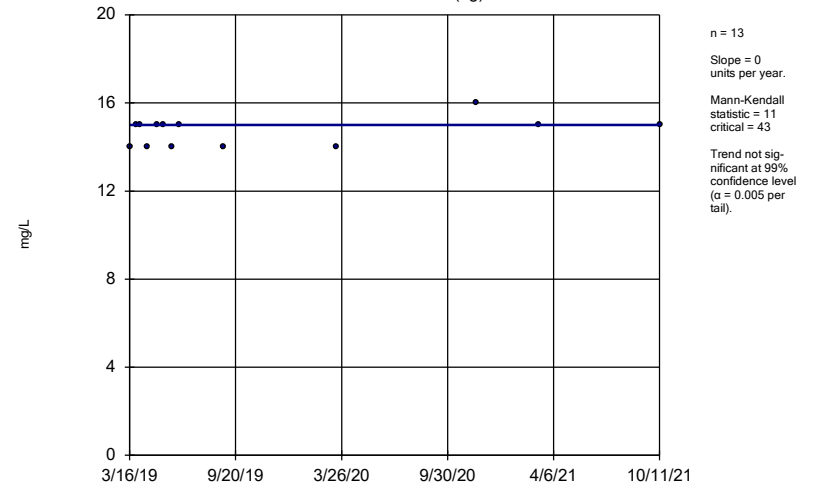
APMW-11 (bg)



Constituent: Chloride Analysis Run 12/8/2021 3:09 PM View: Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

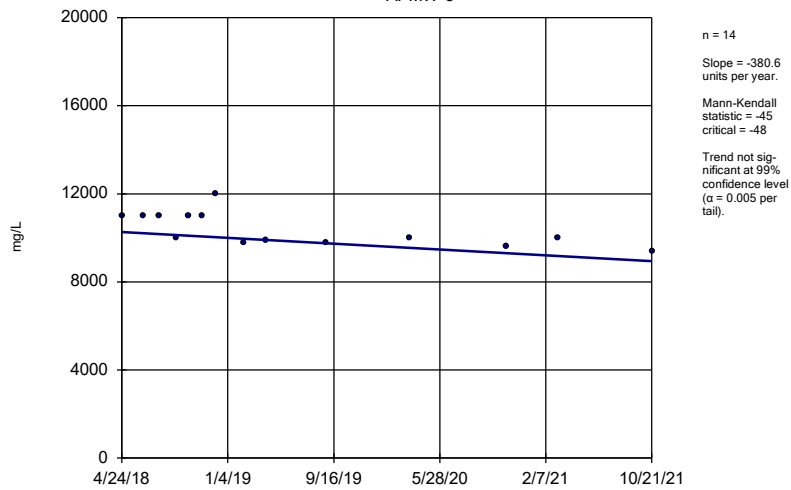
APMW-12 (bg)



Constituent: Chloride Analysis Run 12/8/2021 3:09 PM View: Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

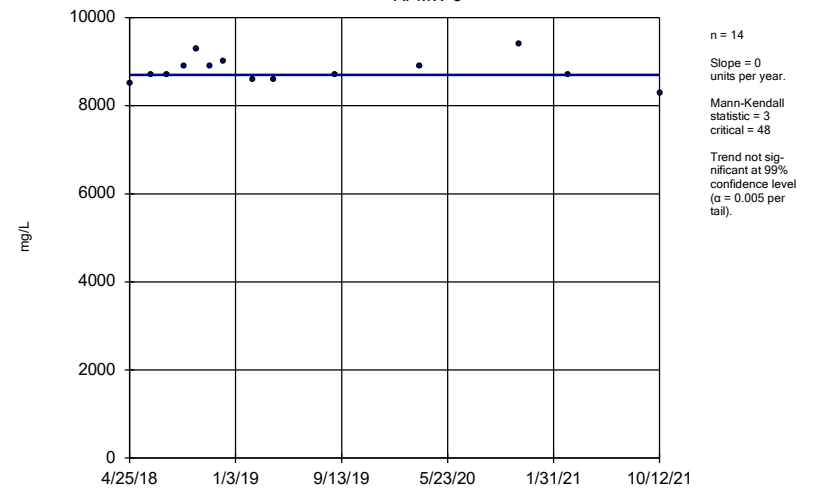
APMW-3



Constituent: Chloride Analysis Run 12/8/2021 3:09 PM View: Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

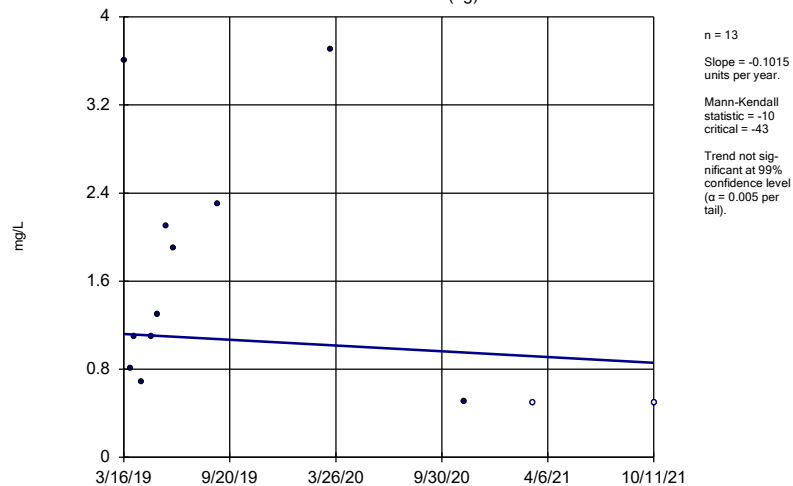
APMW-5



Constituent: Chloride Analysis Run 12/8/2021 3:09 PM View: Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

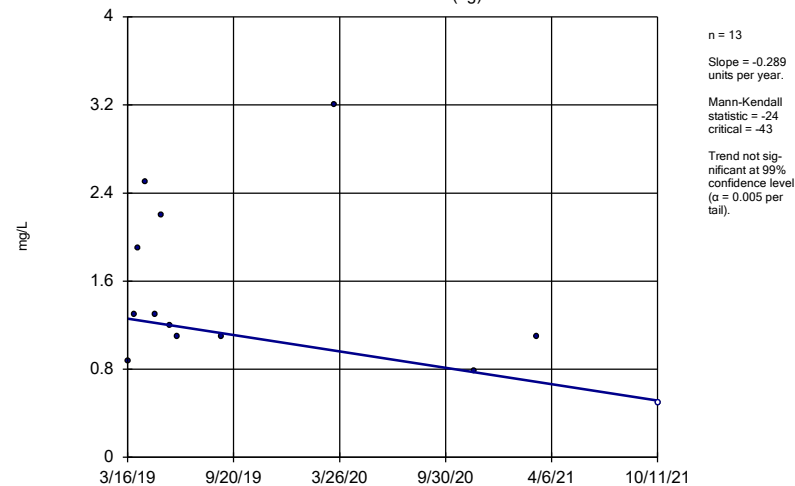
APMW-11 (bg)



Constituent: Sulfate Analysis Run 12/8/2021 3:09 PM View: Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

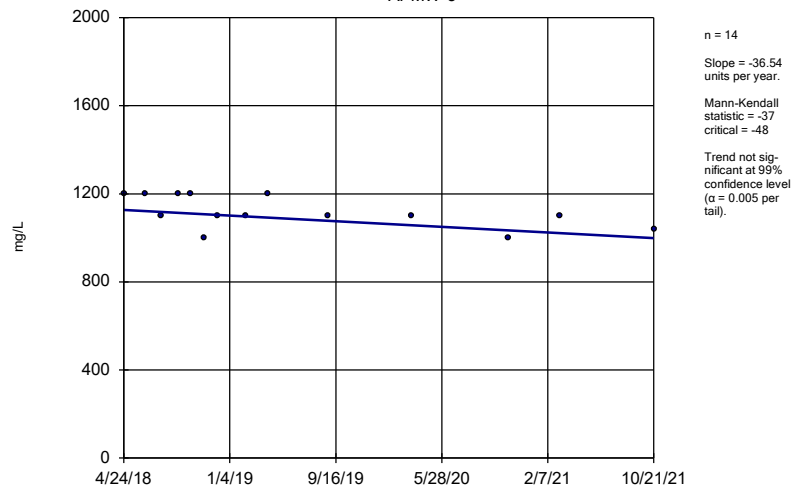
APMW-12 (bg)



Constituent: Sulfate Analysis Run 12/8/2021 3:09 PM View: Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

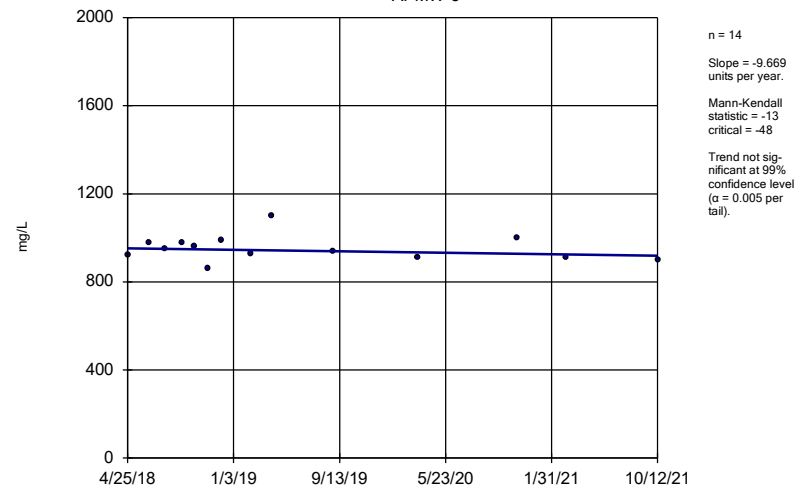
APMW-3



Constituent: Sulfate Analysis Run 12/8/2021 3:09 PM View: Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

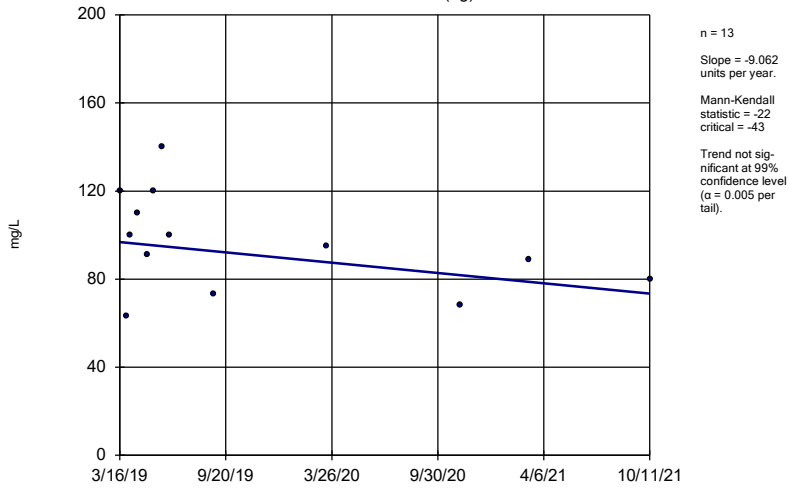
APMW-5



Constituent: Sulfate Analysis Run 12/8/2021 3:09 PM View: Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

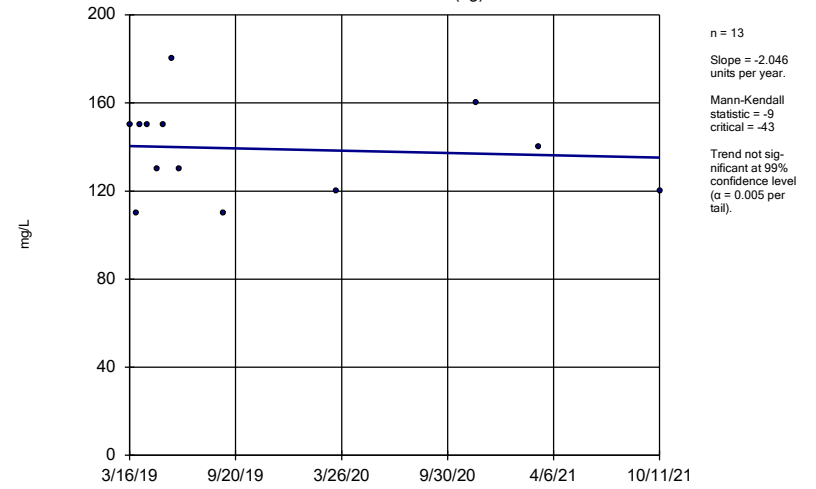
APMW-11 (bg)



Constituent: Total Dissolved Solids Analysis Run 12/8/2021 3:09 PM View: Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

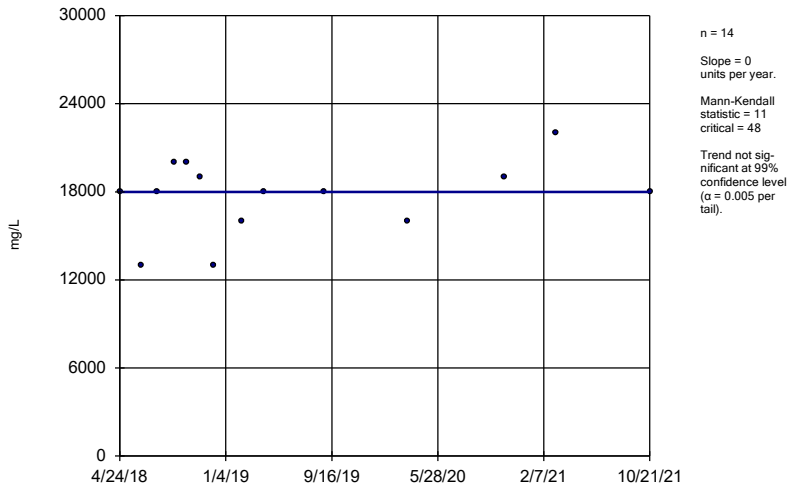
APMW-12 (bg)



Constituent: Total Dissolved Solids Analysis Run 12/8/2021 3:09 PM View: Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

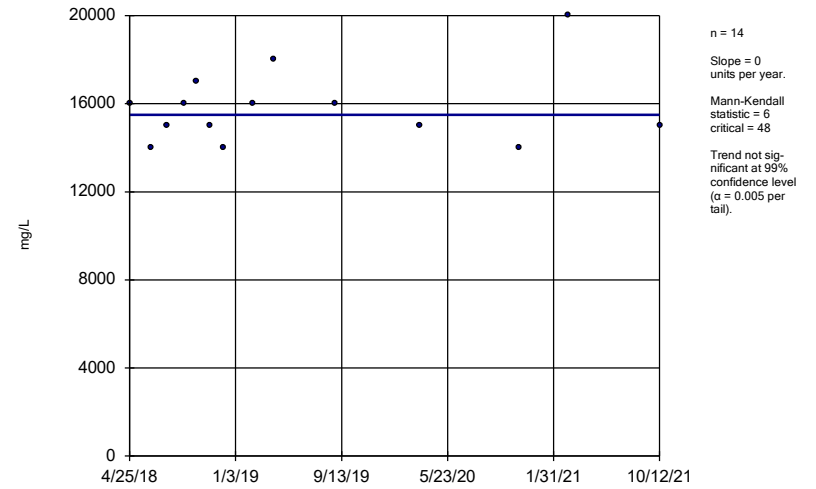
APMW-3



Constituent: Total Dissolved Solids Analysis Run 12/8/2021 3:09 PM View: Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-5



Constituent: Total Dissolved Solids Analysis Run 12/8/2021 3:09 PM View: Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

FIGURE F.

Upper Tolerance Limits Summary Table

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 12/6/2021, 11:19 AM

<u>Constituent</u>	<u>Upper Lim.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	0.002	44	n/a	n/a	100	n/a	n/a	0.1047	NP Inter(NDs)
Arsenic (mg/L)	0.00496	44	n/a	n/a	38.64	n/a	n/a	0.1047	NP Inter(normality)
Barium (mg/L)	0.25	44	n/a	n/a	0	n/a	n/a	0.1047	NP Inter(normality)
Beryllium (mg/L)	0.0025	44	n/a	n/a	93.18	n/a	n/a	0.1047	NP Inter(NDs)
Cadmium (mg/L)	0.0025	44	n/a	n/a	97.73	n/a	n/a	0.1047	NP Inter(NDs)
Chromium (mg/L)	0.0044	40	n/a	n/a	90	n/a	n/a	0.1285	NP Inter(NDs)
Cobalt (mg/L)	0.0025	44	n/a	n/a	90.91	n/a	n/a	0.1047	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	5.172	44	1.01	0.3428	4.545	None	x^(1/3)	0.05	Inter
Fluoride (mg/L)	2	44	n/a	n/a	25	n/a	n/a	0.1047	NP Inter(normality)
Lead (mg/L)	0.001	44	n/a	n/a	97.73	n/a	n/a	0.1047	NP Inter(NDs)
Lithium (mg/L)	0.02574	44	0.09985	0.02886	9.091	None	sqrt(x)	0.05	Inter
Mercury (mg/L)	0.0002	40	n/a	n/a	95	n/a	n/a	0.1285	NP Inter(NDs)
Molybdenum (mg/L)	0.015	44	n/a	n/a	95.45	n/a	n/a	0.1047	NP Inter(NDs)
Selenium (mg/L)	0.005	44	n/a	n/a	100	n/a	n/a	0.1047	NP Inter(NDs)
Thallium (mg/L)	0.001	44	n/a	n/a	95.45	n/a	n/a	0.1047	NP Inter(NDs)

FIGURE G.

PLANT WATSON AP CCR GWPS TABLE				
Constituent Name	MCL	CCR Rule-Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.002	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.25	2
Beryllium, Total (mg/L)	0.004		0.0025	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005
Chromium, Total (mg/L)	0.1		0.0044	0.1
Cobalt, Total (mg/L)		0.006	0.0025	0.006
Combined Radium, Total (pCi/L)	5		5.17	5.17
Fluoride, Total (mg/L)	4		2	4
Lead, Total (mg/L)		0.015	0.001	0.015
Lithium, Total (mg/L)		0.04	0.026	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)		0.1	0.015	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*

**Grey cell indicates background limit is higher than CCR Rule Specified or MCL*

FIGURE H.

Confidence Intervals - Significant Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 2/22/2022, 3:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	APMW-10	0.1186	0.07528	0.01	Yes	14	0.09693	0.03056	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-3	0.08231	0.05977	0.01	Yes	14	0.07104	0.01591	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-4	0.01832	0.01639	0.01	Yes	14	0.01721	0.001762	0	None	x^4	0.01	Param.
Arsenic (mg/L)	APMW-5	0.2396	0.2132	0.01	Yes	14	0.2264	0.01865	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-6R	0.1755	0.1272	0.01	Yes	14	0.1514	0.03408	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-8	0.08251	0.04834	0.01	Yes	14	0.06543	0.02412	0	None	No	0.01	Param.
Barium (mg/L)	APMW-2	3.356	2.924	2	Yes	14	3.143	0.3131	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-1R	10.01	6.3	5	Yes	14	8.157	2.622	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-2	20.31	17.65	5	Yes	14	18.98	1.877	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-3	6.931	5.119	5	Yes	14	6.025	1.279	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-7	7.223	5.611	5	Yes	14	6.341	1.318	0	None	x^2	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-9	7.899	6.737	5	Yes	14	7.339	0.869	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	APMW-3	0.088	0.07	0.04	Yes	14	0.07818	0.01151	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-4	0.063	0.051	0.04	Yes	14	0.05786	0.009322	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-5	0.052	0.044	0.04	Yes	14	0.04943	0.009897	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-6R	0.05863	0.05258	0.04	Yes	14	0.05561	0.004271	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-8	0.099	0.0735	0.04	Yes	14	0.09154	0.02484	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	APMW-6R	0.4454	0.3704	0.1	Yes	14	0.4079	0.05294	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 2/22/2022, 3:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	APMW-2	0.002	0.0014	0.006	No	14	0.001957	0.0001604	92.86	None	No	0.01	NP (NDs)
Arsenic (mg/L)	APMW-10	0.1186	0.07528	0.01	Yes	14	0.09693	0.03056	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-1R	0.002038	0.0009104	0.01	No	14	0.001474	0.0007961	14.29	None	No	0.01	Param.
Arsenic (mg/L)	APMW-2	0.00077	0.00035	0.01	No	14	0.00059	0.0002263	71.43	None	No	0.01	NP (normality)
Arsenic (mg/L)	APMW-3	0.08231	0.05977	0.01	Yes	14	0.07104	0.01591	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-4	0.01832	0.01639	0.01	Yes	14	0.01721	0.001762	0	None	x^4	0.01	Param.
Arsenic (mg/L)	APMW-5	0.2396	0.2132	0.01	Yes	14	0.2264	0.01865	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-6R	0.1755	0.1272	0.01	Yes	14	0.1514	0.03408	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-7	0.001815	0.0006379	0.01	No	14	0.001291	0.0009155	0	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	APMW-8	0.08251	0.04834	0.01	Yes	14	0.06543	0.02412	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-9	0.001429	0.001128	0.01	No	14	0.001279	0.0002119	0	None	No	0.01	Param.
Barium (mg/L)	APMW-10	0.286	0.2326	2	No	14	0.2593	0.03772	0	None	No	0.01	Param.
Barium (mg/L)	APMW-1R	1.211	0.9456	2	No	14	1.083	0.1963	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	APMW-2	3.356	2.924	2	Yes	14	3.143	0.3131	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	APMW-3	0.11	0.097	2	No	14	0.1023	0.006568	0	None	No	0.01	NP (normality)
Barium (mg/L)	APMW-4	0.4827	0.3167	2	No	14	0.39	0.1251	0	None	x^2	0.01	Param.
Barium (mg/L)	APMW-5	0.1065	0.095	2	No	14	0.1009	0.008245	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	APMW-6R	0.06557	0.05372	2	No	14	0.05964	0.008363	0	None	No	0.01	Param.
Barium (mg/L)	APMW-7	0.8594	0.6192	2	No	14	0.7393	0.1696	0	None	No	0.01	Param.
Barium (mg/L)	APMW-8	0.23	0.2	2	No	14	0.2143	0.01158	0	None	No	0.01	NP (normality)
Barium (mg/L)	APMW-9	0.48	0.42	2	No	14	0.4464	0.0262	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	APMW-10	0.0025	0.00076	0.004	No	14	0.002228	0.0006948	85.71	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-1R	0.0025	0.00019	0.004	No	14	0.002335	0.0006174	92.86	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-2	0.0025	0.00061	0.004	No	14	0.002037	0.0009244	78.57	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-3	0.0025	0.00018	0.004	No	14	0.002334	0.00062	92.86	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-6R	0.0025	0.00036	0.004	No	14	0.002347	0.0005719	92.86	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-7	0.0025	0.00025	0.004	No	14	0.002339	0.0006013	92.86	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-8	0.0025	0.00038	0.004	No	14	0.002349	0.0005666	92.86	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-9	0.0025	0.00049	0.004	No	14	0.002195	0.0007768	85.71	None	No	0.01	NP (NDs)
Cadmium (mg/L)	APMW-10	0.0025	0.00025	0.005	No	14	0.002339	0.0006013	92.86	None	No	0.01	NP (NDs)
Cadmium (mg/L)	APMW-1R	0.0025	0.00045	0.005	No	14	0.002354	0.0005479	92.86	None	No	0.01	NP (NDs)
Cadmium (mg/L)	APMW-6R	0.0025	0.00026	0.005	No	14	0.002171	0.0008355	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	APMW-1R	0.0032	0.002	0.1	No	12	0.0021	0.0003464	91.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	APMW-3	0.002	0.0014	0.1	No	12	0.00195	0.0001732	91.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	APMW-4	0.00229	0.001427	0.1	No	12	0.002017	0.000484	33.33	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	APMW-5	0.0024	0.0013	0.1	No	12	0.001817	0.0003689	58.33	None	No	0.01	NP (normality)
Chromium (mg/L)	APMW-6R	0.002	0.002	0.1	No	12	0.002	0	100	None	No	0.01	NP (NDs)
Chromium (mg/L)	APMW-7	0.0022	0.0013	0.1	No	12	0.001733	0.0003312	41.67	None	No	0.01	NP (normality)
Chromium (mg/L)	APMW-8	0.0032	0.0014	0.1	No	12	0.00205	0.0004011	83.33	None	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-10	0.0025	0.00033	0.006	No	14	0.002002	0.0009904	78.57	None	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-1R	0.0025	0.00037	0.006	No	14	0.001284	0.001097	42.86	None	No	0.01	NP (normality)
Cobalt (mg/L)	APMW-3	0.003078	0.002336	0.006	No	14	0.002707	0.000524	0	None	No	0.01	Param.
Cobalt (mg/L)	APMW-4	0.003817	0.003254	0.006	No	14	0.003536	0.0003973	0	None	No	0.01	Param.
Cobalt (mg/L)	APMW-5	0.0025	0.000079	0.006	No	14	0.002154	0.0008799	85.71	None	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-6R	0.003601	0.001956	0.006	No	14	0.002779	0.001161	0	None	No	0.01	Param.
Cobalt (mg/L)	APMW-7	0.0025	0.00024	0.006	No	14	0.001387	0.001156	50	None	No	0.01	NP (normality)
Cobalt (mg/L)	APMW-9	0.0025	0.000089	0.006	No	14	0.002155	0.0008764	85.71	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	APMW-10	3.247	2.557	5	No	14	2.902	0.4868	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-1R	10.01	6.3	5	Yes	14	8.157	2.622	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-2	20.31	17.65	5	Yes	14	18.98	1.877	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-3	6.931	5.119	5	Yes	14	6.025	1.279	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-4	2.684	1.895	5	No	14	2.289	0.5566	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-5	4.548	3.681	5	No	14	4.114	0.6118	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-6R	3.332	2.717	5	No	14	2.899	0.8219	0	None	x^3	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-7	7.223	5.611	5	Yes	14	6.341	1.318	0	None	x^2	0.01	Param.

Confidence Intervals - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 2/22/2022, 3:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	APMW-8	3.997	3.311	5	No	14	3.654	0.4844	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-9	7.899	6.737	5	Yes	14	7.339	0.869	0	None	ln(x)	0.01	Param.
Fluoride (mg/L)	APMW-10	0.7709	0.5957	4	No	15	0.6833	0.1293	0	None	No	0.01	Param.
Fluoride (mg/L)	APMW-1R	5	0.16	4	No	14	2.937	2.472	57.14	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-2	5	0.06	4	No	14	1.156	2.084	21.43	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-3	5	0.37	4	No	15	1.716	2.056	26.67	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-4	0.58	0.5	4	No	15	1.107	1.582	13.33	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-5	5	0.09	4	No	14	2.546	2.547	50	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-6R	5	0.32	4	No	14	3.991	2.004	78.57	None	No	0.01	NP (NDs)
Fluoride (mg/L)	APMW-7	5	0.12	4	No	15	1.231	1.986	20	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-8	1.039	0.8465	4	No	15	0.9233	0.1792	0	None	x^3	0.01	Param.
Fluoride (mg/L)	APMW-9	5	0.06	4	No	14	1.845	2.441	35.71	None	No	0.01	NP (normality)
Lead (mg/L)	APMW-10	0.0011	0.0006	0.015	No	14	0.0009186	0.0002454	78.57	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-3	0.001	0.00048	0.015	No	14	0.0009629	0.000139	92.86	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-4	0.001	0.00062	0.015	No	14	0.0009729	0.0001016	92.86	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-5	0.0011	0.00041	0.015	No	14	0.0009193	0.0002281	78.57	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-6R	0.001	0.00032	0.015	No	14	0.0009514	0.0001817	92.86	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-7	0.0019	0.001	0.015	No	14	0.001064	0.0002405	92.86	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-8	0.0013	0.001	0.015	No	14	0.001064	0.0001737	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-9	0.001	0.00039	0.015	No	14	0.0008943	0.0002735	85.71	None	No	0.01	NP (NDs)
Lithium (mg/L)	APMW-10	0.01981	0.01034	0.04	No	14	0.0154	0.007601	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	APMW-1R	0.01337	0.01094	0.04	No	14	0.01175	0.002927	7.143	None	x^3	0.01	Param.
Lithium (mg/L)	APMW-2	0.02857	0.023	0.04	No	14	0.02579	0.003926	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-3	0.088	0.07	0.04	Yes	14	0.07818	0.01151	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-4	0.063	0.051	0.04	Yes	14	0.05786	0.009322	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-5	0.052	0.044	0.04	Yes	14	0.04943	0.009897	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-6R	0.05863	0.05258	0.04	Yes	14	0.05561	0.004271	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-7	0.004251	0.002365	0.04	No	13	0.003338	0.001417	23.08	Kaplan-Meier	sqrt(x)	0.01	Param.
Lithium (mg/L)	APMW-8	0.099	0.0735	0.04	Yes	14	0.09154	0.02484	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-9	0.004833	0.002991	0.04	No	13	0.003792	0.001472	23.08	Kaplan-Meier	sqrt(x)	0.01	Param.
Mercury (mg/L)	APMW-10	0.0002	0.000085	0.002	No	12	0.0001904	0.0000332	91.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-1R	0.0002	0.00015	0.002	No	12	0.0001958	0.00001443	91.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-5	0.0002	0.000093	0.002	No	12	0.0001911	0.00003089	91.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-6R	0.0002	0.0002	0.002	No	12	0.0002	0	100	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-7	0.0002	0.00009	0.002	No	12	0.0001908	0.00003175	91.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-8	0.0002	0.000077	0.002	No	12	0.0001897	0.00003551	91.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-9	0.00035	0.0002	0.002	No	12	0.0002125	0.0000433	91.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	APMW-10	0.1049	0.07471	0.1	No	14	0.08793	0.02453	0	None	x^2	0.01	Param.
Molybdenum (mg/L)	APMW-2	0.015	0.00079	0.1	No	14	0.01398	0.003798	92.86	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	APMW-3	0.07092	0.0613	0.1	No	14	0.06611	0.006789	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-4	0.01017	0.007284	0.1	No	14	0.008729	0.002039	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-5	0.1019	0.06595	0.1	No	14	0.08393	0.02538	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-6R	0.4454	0.3704	0.1	Yes	14	0.4079	0.05294	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-7	0.015	0.0047	0.1	No	14	0.01078	0.005228	57.14	None	No	0.01	NP (normality)
Molybdenum (mg/L)	APMW-8	0.1554	0.09757	0.1	No	14	0.1265	0.04084	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-9	0.015	0.00093	0.1	No	14	0.01299	0.005115	85.71	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-10	0.005	0.00061	0.05	No	14	0.004021	0.001945	78.57	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-2	0.005	0.00072	0.05	No	14	0.00405	0.001889	78.57	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-3	0.005	0.001	0.05	No	14	0.003155	0.001935	50	None	No	0.01	NP (normality)
Selenium (mg/L)	APMW-4	0.005	0.00068	0.05	No	14	0.004042	0.001904	78.57	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-5	0.005	0.00071	0.05	No	14	0.004065	0.001858	78.57	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-6R	0.005	0.005	0.05	No	14	0.005	0	100	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-7	0.005	0.00046	0.05	No	14	0.004015	0.001957	78.57	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-8	0.005	0.0006	0.05	No	14	0.004036	0.001915	78.57	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-9	0.005	0.00081	0.05	No	14	0.004035	0.001921	78.57	None	No	0.01	NP (NDs)

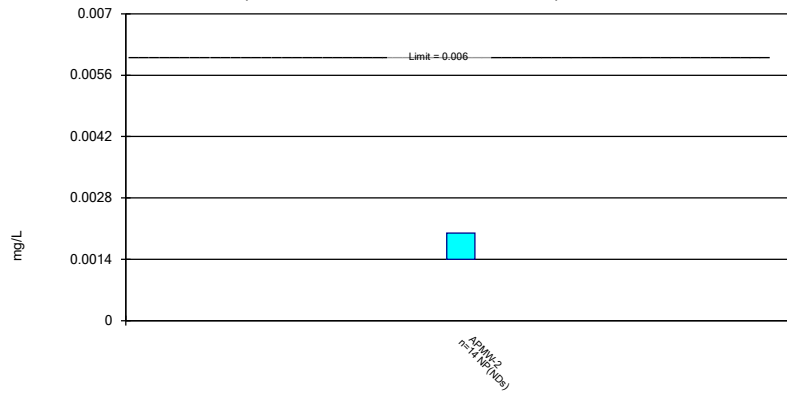
Confidence Intervals - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 2/22/2022, 3:23 PM

<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>
Thallium (mg/L)	APMW-10	0.001	0.00068	0.002	No	14	0.0008864	0.0002513	78.57	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-1R	0.001	0.00019	0.002	No	14	0.0009421	0.0002165	92.86	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-2	0.001	0.00084	0.002	No	14	0.0009886	0.0004276	92.86	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-3	0.001	0.00012	0.002	No	14	0.0009371	0.0002352	92.86	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-8	0.0013	0.00025	0.002	No	14	0.0009086	0.0003069	78.57	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-9	0.0016	0.00024	0.002	No	14	0.0009886	0.0002683	85.71	None	No	0.01	NP (NDs)

Non-Parametric Confidence Interval

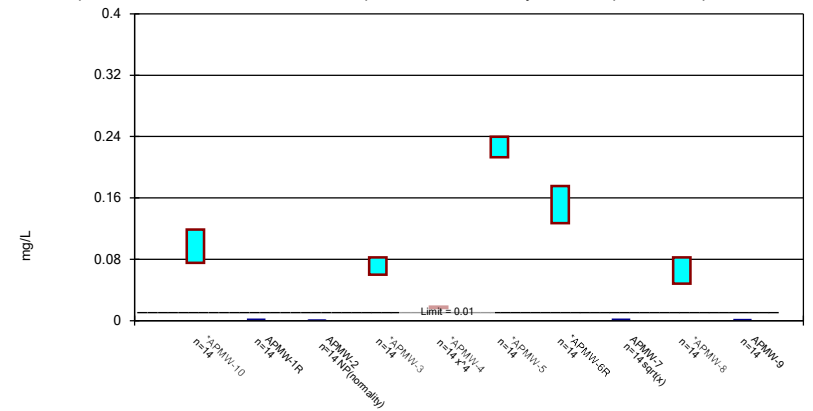
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 2/22/2022 3:21 PM View: Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

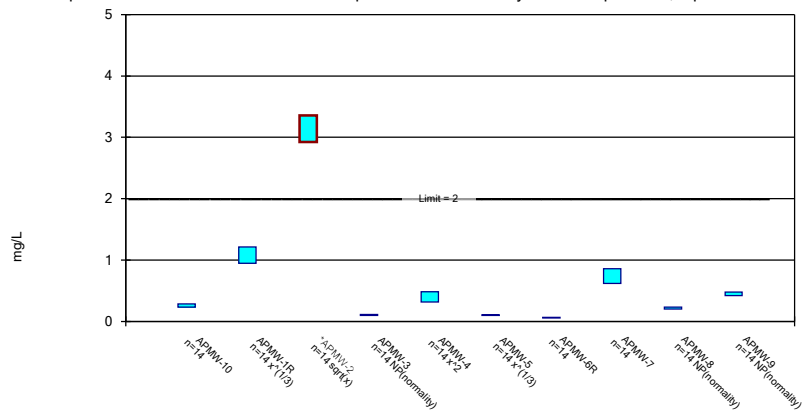
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 2/22/2022 3:21 PM View: Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

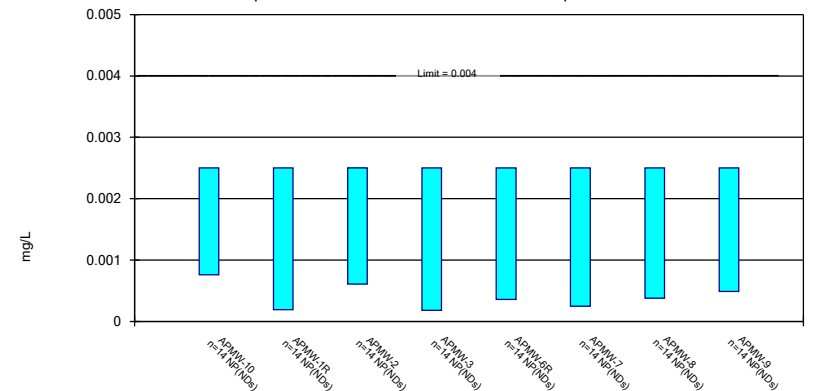
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 2/22/2022 3:21 PM View: Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

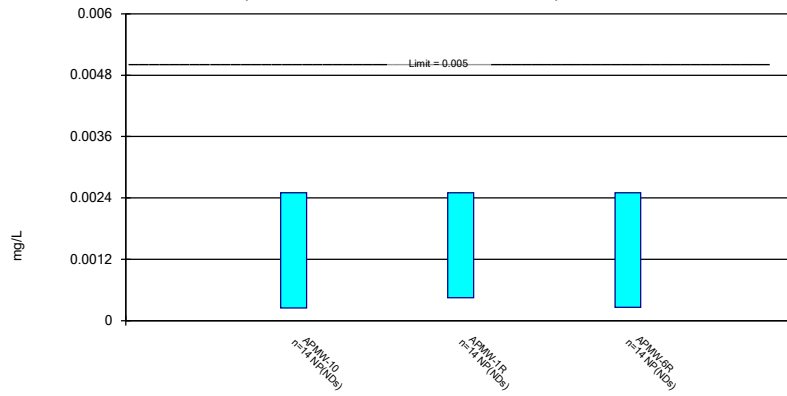
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium Analysis Run 2/22/2022 3:21 PM View: Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

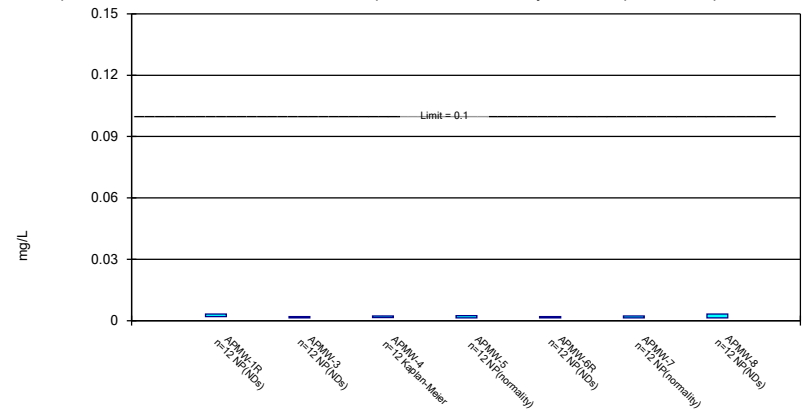
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 2/22/2022 3:21 PM View: Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

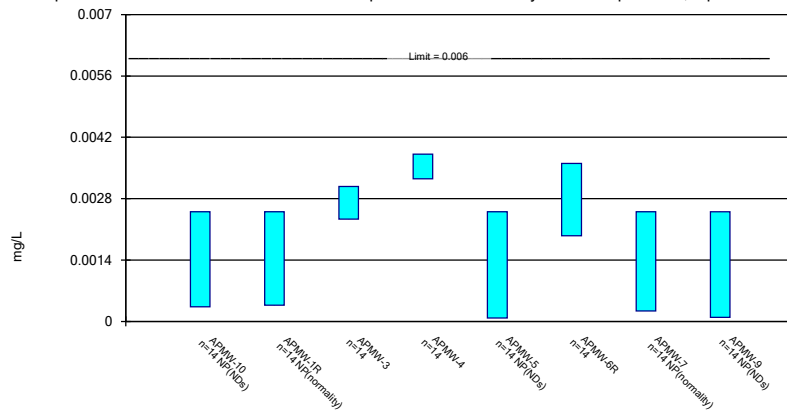
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 2/22/2022 3:21 PM View: Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

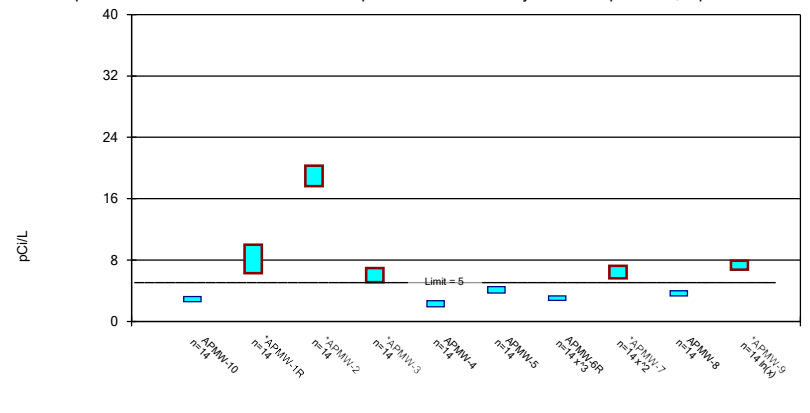
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 2/22/2022 3:21 PM View: Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric Confidence Interval

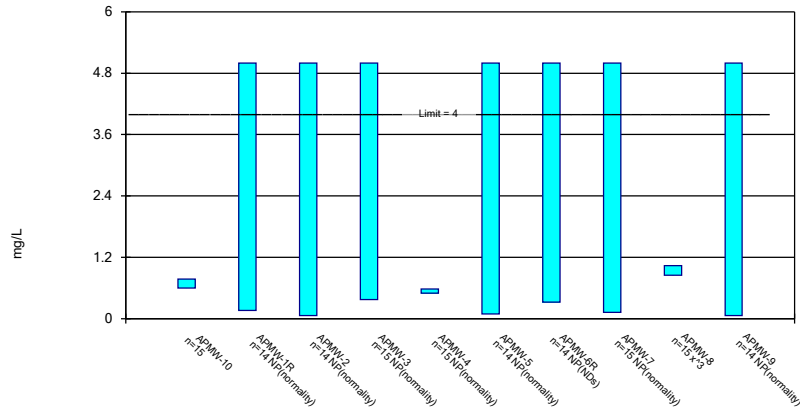
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 2/22/2022 3:21 PM View: Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

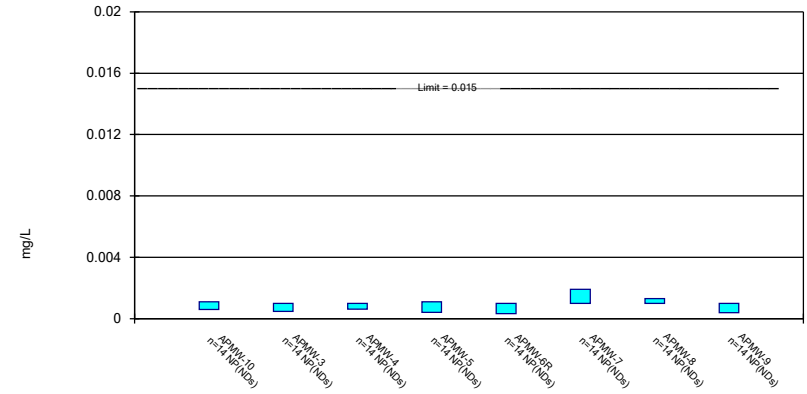
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 2/22/2022 3:21 PM View: Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

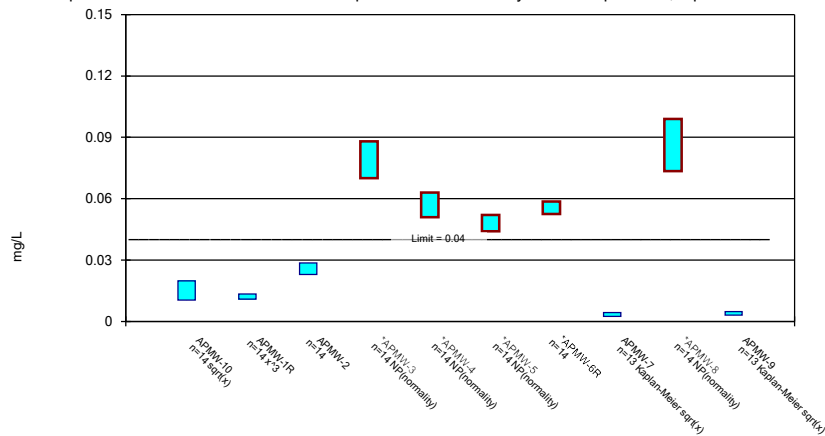
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 2/22/2022 3:21 PM View: Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

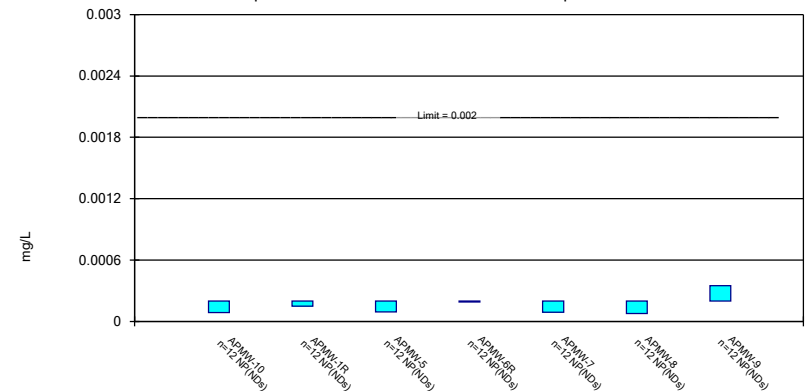
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 2/22/2022 3:21 PM View: Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

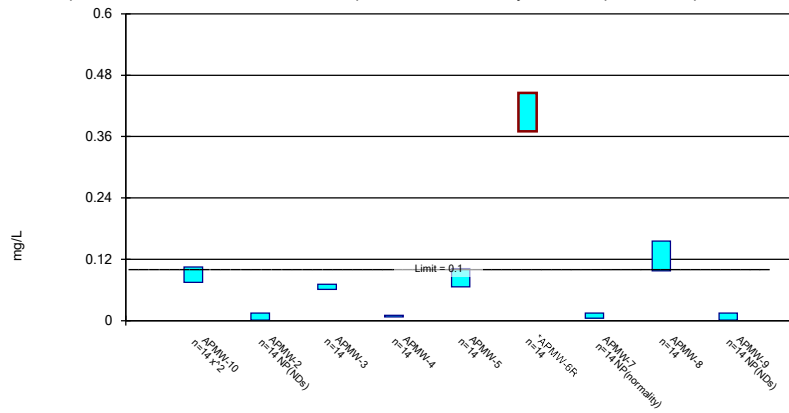
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 2/22/2022 3:21 PM View: Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

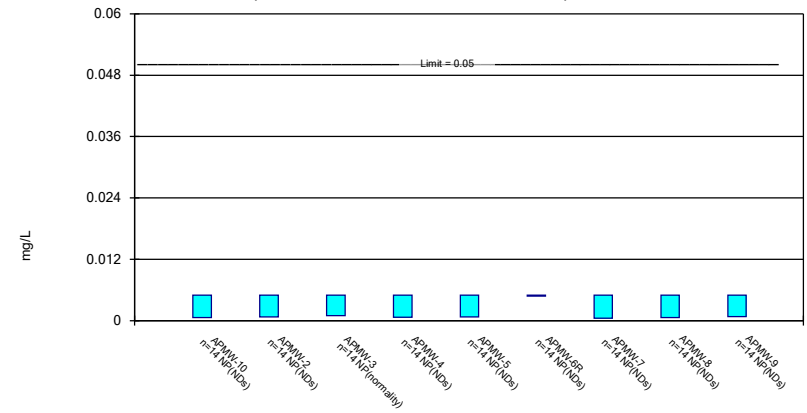
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 2/22/2022 3:21 PM View: Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

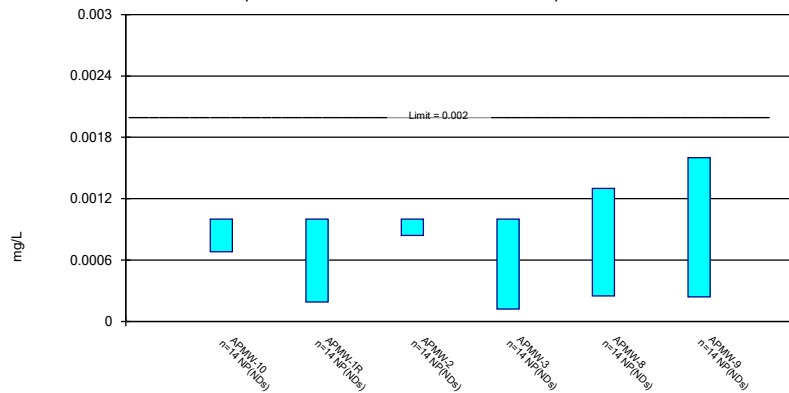
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 2/22/2022 3:21 PM View: Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

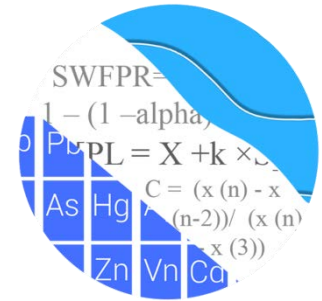
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 2/22/2022 3:21 PM View: Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

2nd
Semi-Annual
Monitoring Event

GROUNDWATER STATS CONSULTING



May 24, 2022

Southern Company Services
Attn: Mr. Trey Singleton
3535 Colonnade Parkway
Birmingham, AL 35243

Re: Plant Watson Ash Pond
Statistical Analysis – April 2022

Dear Mr. Singleton,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of data for the April 2022 sample event for Mississippi Power Company's Plant Watson Ash Pond. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals (CCR) from Electric Utilities (CCR Rule, 2015) and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Data were sent electronically and the analysis was reviewed by Andrew Collins, Project Manager for Groundwater Stats Consulting.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** APMW-11, APMW-12, APMW-13, APMW-14, APMW-15, and APMW-16
- **Downgradient wells:** APMW-1R, APMW-2, APMW-3, APMW-4, APMW-5, APMW-6R, APMW-7, APMW-8, APMW-9, APMW-10
- **Delineation wells:** APMW-2D, APMW-3D, APMW-4D, APMW-5D, APMW-6D, APMW-8D, and APMW-10D

Sampling began for the CCR program in April 2018 for wells listed above with some exceptions. New background wells APMW-11 and APMW-12, and downgradient well

APMW-1R (a replacement well for well APMW-1) were first sampled in March 2019. Sampling began in April 2019 for downgradient well APMW-6R (a replacement well for APMW-6). New upgradient wells APMW-13, APMW-14, APMW-15, and APMW-16 along with delineation wells were first sampled in July 2020.

Note that all data from upgradient wells are incorporated into the interwell statistical limits. Additionally, data for wells APMW-1R and APMW-6R were combined with their corresponding wells APMW-1 and APMW-6, respectively, and are statistically analyzed in this report for Appendix IV constituents when a minimum of 4 samples is available.

The CCR program consists of the following constituents:

- **Appendix III** (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) – antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Time series plots and box plots are included for all constituents at all wells (Figures A and B, respectively). 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.

Summary of Background Screening – Conducted in April 2019

Data at upgradient and downgradient wells were evaluated in during the background screening conducted in April 2019 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. Interwell prediction limits were selected as the most appropriate statistical method to evaluate the Appendix III parameters at this site. Power curves were submitted at that time and demonstrated that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

During the background screening conducted in April 2019, Tukey’s box plot method was used to screen for outliers and the findings were submitted at that time. When any values are flagged in the database as outliers, they are plotted in a disconnected and lighter

symbol on the time series graph and the accompanying data pages display the flagged value in a lighter font.

Summary of Statistical Methods

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. The confidence levels associated with parametric prediction limits are based on an overall false positive rate of 5%. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized where the highest background value is used to establish the upper prediction limit (and lowest value in the case of pH). The associated confidence level is dependent on the number of available background, future comparisons, and resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (USEPA Unified Guidance, 2009), data are analyzed using either parametric or non-parametric prediction limits.

- No statistical analyses are required on wells and analytes containing 100% non-detects.
- When data contain <15% non-detects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. While this was not required for this report, in some cases, deselecting the earlier portion of data may be necessary prior to construction of limits so that resulting statistical limits are conservative (lower) from a regulatory perspective and capable of rapidly detecting changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Evaluation of Appendix III Parameters – April 2022

Background (upgradient) well data were screened for potential outliers using time series plots during the analysis. During a previous analysis, the highest sulfate value in upgradient well APMW-13 was flagged as an outlier since remaining measurements in this well and neighboring upgradient wells are considerably lower. This step results in more conservative (i.e., lower) limits from a regulatory perspective. No new outliers were identified during this analysis. A summary of previously flagged values follows this letter (Figure C).

The time series plots were also used to identify variation among data in upgradient wells. It was noted that concentrations for boron, calcium, chloride, sulfate, and TDS across the new upgradient wells are similar, but significantly higher than those observed in the existing upgradient wells. Further studies beyond the scope of this analysis would be needed to fully understand the groundwater population upgradient of the ash pond, and the appropriateness of pooling all upgradient well data for construction of prediction limits. The assumption at this time, however, is that pooling all upgradient well data results in statistical limits that are representative of the entire background population and serve to balance the false positive risk (identifying a problem in a downgradient well when none exists) with the false negative risk (not identifying impacts when they exist in a downgradient well).

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed for all Appendix III constituents--boron, calcium, chloride, fluoride, pH, sulfate and TDS--using pooled upgradient well data to develop background limits. The April 2022 observation at each downgradient well was compared to its respective background limit during this analysis.

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 a resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no further action is necessary.

When the April 2022 samples from downgradient wells were evaluated using interwell prediction limits, several statistically significant increases were identified (Figure D). Summary tables of the prediction limit findings follow this letter.

Trend Tests

The Sen's Slope/Mann Kendall trend test was performed on wells/constituents with prediction limit exceedances (Figure E). Existing upgradient wells were included in this analysis for a general comparison of how the groundwater behaves upgradient of the facility relative to downgradient. A summary of these findings follows this letter. When the entire record of data was evaluated, the following statistically significant trends were identified:

Increasing:

- Boron: APMW-1R
- Calcium: APMW-1R
- pH: APMW-10

Decreasing:

- Chloride: APMW-3
- pH: APMW-11 (upgradient)

Evaluation of Appendix IV Parameters – April 2022

For analysis of 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 contain 100% non-detects do not require analysis and a list of 100% non-detect downgradient well/constituent pairs follows this report. Data from background (upgradient) wells for Appendix IV parameters are reassessed for outliers during each analysis. No new outliers were flagged and a summary of flagged outliers follows this report.

Interwell Upper Tolerance Limits

Parametric upper tolerance limits (UTLs) were used to calculate background limits, when data followed a normal distribution, from pooled upgradient well data for Appendix IV parameters with a target of 95% confidence and 95% coverage to determine the background limits (Figure F). When data did not follow a normal or transformed-normal distribution, nonparametric upper tolerance limits were constructed and the confidence and coverage levels are dependent upon the number of background samples.

Groundwater Protection Standards


UTLs were compared to the Maximum Contaminant Levels (MCs) and CCR-Rule Specified Levels in the GWPS table following this letter to determine the highest limit for use as the Groundwater Protection Standard (GWPS) in the Confidence Interval comparisons (Figure G).

Confidence Intervals

Confidence intervals were then constructed on downgradient wells for each of the Appendix IV parameters using the highest limit of either the MCL, CCR-Rule Specified level, or background as discussed above (Figure H). Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its respective standard. Several exceedances were noted. A summary of the significant results follows this letter. Note that Southern Company Services, reportedly, submitted an Alternate Source Demonstration (ASD) for the barium and combined radium 226 + 228 confidence interval exceedances.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Watson Ash Pond. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Tristan Clark
Groundwater Analyst



Andrew T. Collins
Project Manager

100% Non-Detects: Appendix IV Downgradient

Analysis Run 5/24/2022 1:32 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Antimony (mg/L)

APMW-10, APMW-1R, APMW-3, APMW-4, APMW-5, APMW-6R, APMW-7, APMW-9

Beryllium (mg/L)

APMW-4, APMW-5

Cadmium (mg/L)

APMW-2, APMW-3, APMW-4, APMW-5, APMW-7, APMW-8, APMW-9

Chromium (mg/L)

APMW-10, APMW-2, APMW-6R, APMW-9

Cobalt (mg/L)

APMW-2, APMW-8

Lead (mg/L)

APMW-1R

Mercury (mg/L)

APMW-2, APMW-3, APMW-4, APMW-6R

Molybdenum (mg/L)

APMW-1R

Selenium (mg/L)

APMW-1R, APMW-6R

Thallium (mg/L)

APMW-4, APMW-5, APMW-6R, APMW-7

Interwell Prediction Limits - Significant Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 5/24/2022, 12:23 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)	APMW-10	1.2	n/a	4/5/2022	2.1	Yes	48	n/a	n/a	18.75	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-1R	1.2	n/a	4/4/2022	6.6	Yes	48	n/a	n/a	18.75	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-2	1.2	n/a	4/5/2022	3.7	Yes	48	n/a	n/a	18.75	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-3	1.2	n/a	4/5/2022	6.3	Yes	48	n/a	n/a	18.75	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-5	1.2	n/a	4/6/2022	5.8	Yes	48	n/a	n/a	18.75	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-6R	1.2	n/a	4/7/2022	10	Yes	48	n/a	n/a	18.75	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-7	1.2	n/a	4/6/2022	1.4	Yes	48	n/a	n/a	18.75	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-8	1.2	n/a	4/6/2022	19	Yes	48	n/a	n/a	18.75	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-9	1.2	n/a	4/6/2022	5.9	Yes	48	n/a	n/a	18.75	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-1R	130	n/a	4/4/2022	200	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-2	130	n/a	4/5/2022	380	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-3	130	n/a	4/5/2022	330	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-5	130	n/a	4/6/2022	320	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-6R	130	n/a	4/7/2022	390	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-8	130	n/a	4/6/2022	460	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-9	130	n/a	4/6/2022	300	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-3	5400	n/a	4/5/2022	9300	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-5	5400	n/a	4/6/2022	8400	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-6R	2	n/a	4/7/2022	6.4	Yes	50	n/a	n/a	24	n/a	n/a	0.0007305	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-8	2	n/a	4/6/2022	16	Yes	50	n/a	n/a	24	n/a	n/a	0.0007305	NP Inter (normality) 1 of 2
pH (SU)	APMW-10	6.79	5.821	4/5/2022	7.17	Yes	49	6.305	0.238	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-2	6.79	5.821	4/5/2022	5.46	Yes	49	6.305	0.238	0	None	No	0.0003761	Param Inter 1 of 2
Sulfate (mg/L)	APMW-3	840	n/a	4/5/2022	1100	Yes	47	n/a	n/a	6.383	n/a	n/a	0.0008437	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-5	840	n/a	4/6/2022	910	Yes	47	n/a	n/a	6.383	n/a	n/a	0.0008437	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-3	9200	n/a	4/5/2022	16000	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-5	9200	n/a	4/6/2022	15000	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 5/24/2022, 12:23 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)	APMW-10	1.2	n/a	4/5/2022	2.1	Yes	48	n/a	n/a	18.75	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-1R	1.2	n/a	4/4/2022	6.6	Yes	48	n/a	n/a	18.75	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-2	1.2	n/a	4/5/2022	3.7	Yes	48	n/a	n/a	18.75	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-3	1.2	n/a	4/5/2022	6.3	Yes	48	n/a	n/a	18.75	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-4	1.2	n/a	4/6/2022	1.1	No	48	n/a	n/a	18.75	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-5	1.2	n/a	4/6/2022	5.8	Yes	48	n/a	n/a	18.75	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-6R	1.2	n/a	4/7/2022	10	Yes	48	n/a	n/a	18.75	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-7	1.2	n/a	4/6/2022	1.4	Yes	48	n/a	n/a	18.75	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-8	1.2	n/a	4/6/2022	19	Yes	48	n/a	n/a	18.75	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-9	1.2	n/a	4/6/2022	5.9	Yes	48	n/a	n/a	18.75	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-10	130	n/a	4/5/2022	42	No	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-1R	130	n/a	4/4/2022	200	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-2	130	n/a	4/5/2022	380	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-3	130	n/a	4/5/2022	330	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-4	130	n/a	4/6/2022	130	No	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-5	130	n/a	4/6/2022	320	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-6R	130	n/a	4/7/2022	390	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-7	130	n/a	4/6/2022	110	No	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-8	130	n/a	4/6/2022	460	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-9	130	n/a	4/6/2022	300	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-10	5400	n/a	4/5/2022	760	No	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-1R	5400	n/a	4/4/2022	2500	No	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-2	5400	n/a	4/5/2022	2600	No	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-3	5400	n/a	4/5/2022	9300	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-4	5400	n/a	4/6/2022	2800	No	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-5	5400	n/a	4/6/2022	8400	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-6R	5400	n/a	4/7/2022	3900	No	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-7	5400	n/a	4/6/2022	4200	No	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-8	5400	n/a	4/6/2022	3400	No	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-9	5400	n/a	4/6/2022	2900	No	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-10	2	n/a	4/5/2022	0.82	No	50	n/a	n/a	24	n/a	n/a	0.0007305	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-1R	2	n/a	4/4/2022	0.13J	No	50	n/a	n/a	24	n/a	n/a	0.0007305	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-2	2	n/a	4/5/2022	2ND	No	50	n/a	n/a	24	n/a	n/a	0.0007305	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-3	2	n/a	4/5/2022	2ND	No	50	n/a	n/a	24	n/a	n/a	0.0007305	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-4	2	n/a	4/6/2022	0.36J	No	50	n/a	n/a	24	n/a	n/a	0.0007305	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-5	2	n/a	4/6/2022	2ND	No	50	n/a	n/a	24	n/a	n/a	0.0007305	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-6R	2	n/a	4/7/2022	6.4	Yes	50	n/a	n/a	24	n/a	n/a	0.0007305	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-7	2	n/a	4/6/2022	1.2J	No	50	n/a	n/a	24	n/a	n/a	0.0007305	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-8	2	n/a	4/6/2022	16	Yes	50	n/a	n/a	24	n/a	n/a	0.0007305	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-9	2	n/a	4/6/2022	0.82J	No	50	n/a	n/a	24	n/a	n/a	0.0007305	NP Inter (normality) 1 of 2
pH (SU)	APMW-10	6.79	5.821	4/5/2022	7.17	Yes	49	6.305	0.238	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-1R	6.79	5.821	4/4/2022	6.34	No	49	6.305	0.238	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-2	6.79	5.821	4/5/2022	5.46	Yes	49	6.305	0.238	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-3	6.79	5.821	4/5/2022	6.45	No	49	6.305	0.238	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-4	6.79	5.821	4/6/2022	6.37	No	49	6.305	0.238	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-5	6.79	5.821	4/6/2022	6.16	No	49	6.305	0.238	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-6R	6.79	5.821	4/7/2022	5.91	No	49	6.305	0.238	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-7	6.79	5.821	4/6/2022	6.38	No	49	6.305	0.238	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-8	6.79	5.821	4/6/2022	6.74	No	49	6.305	0.238	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-9	6.79	5.821	4/6/2022	6.13	No	49	6.305	0.238	0	None	No	0.0003761	Param Inter 1 of 2

Interwell Prediction Limits - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 5/24/2022, 12:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	APMW-10	840	n/a	4/5/2022	7.5	No	47	n/a	n/a	6.383	n/a	n/a	0.0008437	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-1R	840	n/a	4/4/2022	21	No	47	n/a	n/a	6.383	n/a	n/a	0.0008437	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-2	840	n/a	4/5/2022	11	No	47	n/a	n/a	6.383	n/a	n/a	0.0008437	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-3	840	n/a	4/5/2022	1100	Yes	47	n/a	n/a	6.383	n/a	n/a	0.0008437	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-4	840	n/a	4/6/2022	300	No	47	n/a	n/a	6.383	n/a	n/a	0.0008437	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-5	840	n/a	4/6/2022	910	Yes	47	n/a	n/a	6.383	n/a	n/a	0.0008437	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-6R	840	n/a	4/7/2022	820	No	47	n/a	n/a	6.383	n/a	n/a	0.0008437	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-7	840	n/a	4/6/2022	98	No	47	n/a	n/a	6.383	n/a	n/a	0.0008437	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-8	840	n/a	4/6/2022	610	No	47	n/a	n/a	6.383	n/a	n/a	0.0008437	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-9	840	n/a	4/6/2022	290	No	47	n/a	n/a	6.383	n/a	n/a	0.0008437	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-10	9200	n/a	4/5/2022	1700	No	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-1R	9200	n/a	4/4/2022	4700	No	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-2	9200	n/a	4/5/2022	4400	No	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-3	9200	n/a	4/5/2022	16000	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-4	9200	n/a	4/6/2022	5200	No	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-5	9200	n/a	4/6/2022	15000	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-6R	9200	n/a	4/7/2022	7600	No	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-7	9200	n/a	4/6/2022	7700	No	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-8	9200	n/a	4/6/2022	8900	No	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-9	9200	n/a	4/6/2022	5600	No	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2

Appendix III Trend Test - Significant Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 5/18/2022, 3:47 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	APMW-1R	0.9895	57	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-1R	32.82	56	48	Yes	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-3	-380.6	-59	-53	Yes	15	0	n/a	n/a	0.01	NP
pH (SU)	APMW-10	0.1099	59	58	Yes	16	0	n/a	n/a	0.01	NP
pH (SU)	APMW-11 (bg)	-0.2411	-81	-53	Yes	15	0	n/a	n/a	0.01	NP

Appendix III Trend Test - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 5/18/2022, 3:47 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	APMW-10	0.03392	26	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-11 (bg)	0.009847	39	48	No	14	42.86	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-12 (bg)	0.01619	48	48	No	14	21.43	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-13 (bg)	-0.001165	0	12	No	5	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-14 (bg)	-0.008684	-3	-12	No	5	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-15 (bg)	-0.01478	0	12	No	5	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-16 (bg)	-0.02837	-4	-12	No	5	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-1R	0.9895	57	48	Yes	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-2	-0.1669	-45	-53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-3	0.0843	17	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-5	-0.2101	-32	-53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-6R	0.5739	35	48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-7	0.01966	8	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-8	-0.3802	-24	-53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-9	-0.04097	-15	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-11 (bg)	-1.964	-46	-48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-12 (bg)	-0.3883	-37	-48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-13 (bg)	-1.576	-4	-12	No	5	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-14 (bg)	-10.25	-7	-12	No	5	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-15 (bg)	-10.65	-8	-12	No	5	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-16 (bg)	-19.53	-6	-12	No	5	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-1R	32.82	56	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-2	8.43	16	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-3	0	10	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-5	-5.244	-26	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-6R	0	5	48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-8	-10.99	-35	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-9	-3.506	-25	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-11 (bg)	0	0	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-12 (bg)	0	3	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-13 (bg)	-112.8	-2	-12	No	5	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-14 (bg)	-94.76	-4	-12	No	5	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-15 (bg)	18.35	0	12	No	5	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-16 (bg)	79.99	1	12	No	5	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-3	-380.6	-59	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-5	0	-9	-53	No	15	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-11 (bg)	0	3	53	No	15	40	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-12 (bg)	-0.002395	-9	-53	No	15	6.667	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-13 (bg)	0.1162	4	12	No	5	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-14 (bg)	0.04856	3	12	No	5	60	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-15 (bg)	-0.07392	-1	-12	No	5	20	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-16 (bg)	0.2069	4	12	No	5	20	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-6R	0	-12	-53	No	15	73.33	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-8	-0.03095	-18	-58	No	16	0	n/a	n/a	0.01	NP
pH (SU)	APMW-10	0.1099	59	58	Yes	16	0	n/a	n/a	0.01	NP
pH (SU)	APMW-11 (bg)	-0.2411	-81	-53	Yes	15	0	n/a	n/a	0.01	NP
pH (SU)	APMW-12 (bg)	-0.1256	-42	-48	No	14	0	n/a	n/a	0.01	NP
pH (SU)	APMW-13 (bg)	-0.03174	-1	-12	No	5	0	n/a	n/a	0.01	NP
pH (SU)	APMW-14 (bg)	-0.04825	-4	-12	No	5	0	n/a	n/a	0.01	NP
pH (SU)	APMW-15 (bg)	0.01286	3	12	No	5	0	n/a	n/a	0.01	NP
pH (SU)	APMW-16 (bg)	0.02074	2	12	No	5	0	n/a	n/a	0.01	NP
pH (SU)	APMW-2	-0.02567	-23	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-11 (bg)	-0.09467	-13	-48	No	14	14.29	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-12 (bg)	-0.252	-21	-48	No	14	7.143	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-13 (bg)	17.54	2	8	No	4	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-14 (bg)	60.06	6	12	No	5	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-15 (bg)	44.56	2	12	No	5	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-16 (bg)	40.34	2	12	No	5	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-3	-25.31	-39	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-5	-10.8	-21	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-11 (bg)	-8.295	-29	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-12 (bg)	-4.092	-16	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-13 (bg)	-271	-7	-12	No	5	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-14 (bg)	-278	-2	-12	No	5	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-15 (bg)	-616.2	-6	-12	No	5	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-16 (bg)	23.7	1	12	No	5	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-3	0	3	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-5	0	2	53	No	15	0	n/a	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 5/13/2022, 1:13 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bq N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	n/a	0.002	n/a	n/a	n/a	50	100	n/a	0.07694	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.00496	n/a	n/a	n/a	50	40	n/a	0.07694	NP Inter(normality)
Barium (mg/L)	n/a	0.25	n/a	n/a	n/a	50	0	n/a	0.07694	NP Inter(NDs)
Beryllium (mg/L)	n/a	0.0025	n/a	n/a	n/a	50	94	n/a	0.07694	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0025	n/a	n/a	n/a	50	98	n/a	0.07694	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0044	n/a	n/a	n/a	46	91.3	n/a	0.09447	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.0025	n/a	n/a	n/a	50	90	n/a	0.07694	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	4.742	n/a	n/a	n/a	50	4	sqrt(x)	0.05	Inter
Fluoride (mg/L)	n/a	2	n/a	n/a	n/a	50	24	n/a	0.07694	NP Inter(normality)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	50	96	n/a	0.07694	NP Inter(NDs)
Lithium (mg/L)	n/a	0.02483	n/a	n/a	n/a	50	8	sqrt(x)	0.05	Inter
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	46	95.65	n/a	0.09447	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.015	n/a	n/a	n/a	50	96	n/a	0.07694	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	50	100	n/a	0.07694	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	50	96	n/a	0.07694	NP Inter(NDs)

PLANT WATSON AP CCR GWPS TABLE				
Constituent Name	MCL	CCR Rule-Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.002	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.25	2
Beryllium, Total (mg/L)	0.004		0.0025	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005
Chromium, Total (mg/L)	0.1		0.0044	0.1
Cobalt, Total (mg/L)		0.006	0.0025	0.006
Combined Radium, Total (pCi/L)	5		4.74	5
Fluoride, Total (mg/L)	4		2	4
Lead, Total (mg/L)		0.015	0.001	0.015
Lithium, Total (mg/L)		0.04	0.025	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)		0.1	0.015	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*

**Grey cell indicates background limit is higher than CCR Rule Specified or MCL*

Confidence Intervals - Significant Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 5/24/2022, 1:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	APMW-10	0.1154	0.07069	0.01	Yes	15	0.09307	0.03303	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-3	0.08064	0.05822	0.01	Yes	15	0.06943	0.01654	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-4	0.01821	0.01607	0.01	Yes	15	0.0168	0.002336	0	None	x^5	0.01	Param.
Arsenic (mg/L)	APMW-5	0.2378	0.2128	0.01	Yes	15	0.2253	0.01846	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-6R	0.1798	0.1308	0.01	Yes	15	0.1553	0.03616	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-8	0.08001	0.04519	0.01	Yes	15	0.0626	0.0257	0	None	No	0.01	Param.
Barium (mg/L)	APMW-2	3.393	2.954	2	Yes	15	3.173	0.324	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-1R	10.32	6.574	5	Yes	15	8.447	2.764	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-2	20.13	17.62	5	Yes	15	18.87	1.854	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-3	6.991	5.249	5	Yes	15	6.12	1.286	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-7	7.15	5.657	5	Yes	15	6.329	1.271	0	None	x^2	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-9	8.11	6.67	5	Yes	15	7.312	0.844	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-3	0.088	0.07	0.04	Yes	15	0.07837	0.01111	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-4	0.063	0.051	0.04	Yes	15	0.05707	0.00949	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-5	0.052	0.044	0.04	Yes	15	0.0492	0.009578	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-6R	0.0585	0.0529	0.04	Yes	15	0.0557	0.004131	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-8	0.099	0.0735	0.04	Yes	15	0.09043	0.02432	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	APMW-6R	0.4521	0.3759	0.1	Yes	15	0.414	0.05629	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 5/24/2022, 1:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	APMW-2	0.002	0.0014	0.006	No	15	0.00196	0.0001549	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	APMW-8	0.002	0.00066	0.006	No	15	0.001911	0.000346	93.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	APMW-10	0.1154	0.07069	0.01	Yes	15	0.09307	0.03303	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-1R	0.001955	0.0008499	0.01	No	15	0.001403	0.0008158	13.33	None	No	0.01	Param.
Arsenic (mg/L)	APMW-2	0.00077	0.00035	0.01	No	15	0.000584	0.0002193	73.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	APMW-3	0.08064	0.05822	0.01	Yes	15	0.06943	0.01654	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-4	0.01821	0.01607	0.01	Yes	15	0.0168	0.002336	0	None	x^5	0.01	Param.
Arsenic (mg/L)	APMW-5	0.2378	0.2128	0.01	Yes	15	0.2253	0.01846	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-6R	0.1798	0.1308	0.01	Yes	15	0.1553	0.03616	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-7	0.0021	0.00045	0.01	No	15	0.001237	0.0009066	0	None	No	0.01	NP (normality)
Arsenic (mg/L)	APMW-8	0.08001	0.04519	0.01	Yes	15	0.0626	0.0257	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-9	0.001418	0.001142	0.01	No	15	0.00128	0.0002042	0	None	No	0.01	Param.
Barium (mg/L)	APMW-10	0.298	0.2353	2	No	15	0.2667	0.04624	0	None	No	0.01	Param.
Barium (mg/L)	APMW-1R	1.252	0.9613	2	No	15	1.117	0.2316	0	None	ln(x)	0.01	Param.
Barium (mg/L)	APMW-2	3.393	2.954	2	Yes	15	3.173	0.324	0	None	No	0.01	Param.
Barium (mg/L)	APMW-3	0.11	0.098	2	No	15	0.102	0.006425	0	None	No	0.01	NP (normality)
Barium (mg/L)	APMW-4	0.4656	0.285	2	No	15	0.3753	0.1332	0	None	No	0.01	Param.
Barium (mg/L)	APMW-5	0.1071	0.09585	2	No	15	0.1015	0.008288	0	None	No	0.01	Param.
Barium (mg/L)	APMW-6R	0.06472	0.05234	2	No	15	0.05853	0.009133	0	None	No	0.01	Param.
Barium (mg/L)	APMW-7	0.8437	0.6176	2	No	15	0.7307	0.1668	0	None	No	0.01	Param.
Barium (mg/L)	APMW-8	0.2248	0.2072	2	No	15	0.216	0.01298	0	None	No	0.01	Param.
Barium (mg/L)	APMW-9	0.4727	0.4299	2	No	15	0.4513	0.03159	0	None	No	0.01	Param.
Beryllium (mg/L)	APMW-10	0.013	0.00076	0.004	No	15	0.01135	0.004365	86.67	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-1R	0.013	0.00019	0.004	No	15	0.01215	0.003308	93.33	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-2	0.013	0.00061	0.004	No	15	0.01047	0.005242	80	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-3	0.013	0.00018	0.004	No	15	0.01215	0.00331	93.33	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-6R	0.013	0.00036	0.004	No	15	0.01216	0.003264	93.33	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-7	0.013	0.00025	0.004	No	15	0.01215	0.003292	93.33	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-8	0.013	0.00038	0.004	No	15	0.01216	0.003258	93.33	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-9	0.013	0.00049	0.004	No	15	0.01132	0.004446	86.67	None	No	0.01	NP (NDs)
Cadmium (mg/L)	APMW-10	0.0025	0.00025	0.005	No	15	0.00235	0.0005809	93.33	None	No	0.01	NP (NDs)
Cadmium (mg/L)	APMW-1R	0.0025	0.00045	0.005	No	15	0.002363	0.0005293	93.33	None	No	0.01	NP (NDs)
Cadmium (mg/L)	APMW-6R	0.0025	0.00026	0.005	No	15	0.002193	0.0008096	86.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	APMW-1R	0.0032	0.002	0.1	No	13	0.002092	0.0003328	92.31	None	No	0.01	NP (NDs)
Chromium (mg/L)	APMW-3	0.002	0.0014	0.1	No	13	0.001954	0.0001664	92.31	None	No	0.01	NP (NDs)
Chromium (mg/L)	APMW-4	0.002236	0.001429	0.1	No	13	0.002015	0.0004634	38.46	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	APMW-5	0.0024	0.0013	0.1	No	13	0.001831	0.0003568	61.54	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	APMW-7	0.0022	0.0014	0.1	No	13	0.001754	0.0003256	46.15	None	No	0.01	NP (normality)
Chromium (mg/L)	APMW-8	0.0032	0.0014	0.1	No	13	0.002046	0.0003843	84.62	None	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-10	0.0025	0.00033	0.006	No	15	0.002035	0.000963	80	None	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-1R	0.0025	0.00037	0.006	No	15	0.001365	0.001103	46.67	None	No	0.01	NP (normality)
Cobalt (mg/L)	APMW-3	0.003157	0.00239	0.006	No	15	0.002773	0.0005663	0	None	No	0.01	Param.
Cobalt (mg/L)	APMW-4	0.003787	0.003266	0.006	No	15	0.003527	0.0003845	0	None	No	0.01	Param.
Cobalt (mg/L)	APMW-5	0.0025	0.000079	0.006	No	15	0.002177	0.0008526	86.67	None	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-6R	0.003538	0.002022	0.006	No	15	0.00278	0.001119	0	None	No	0.01	Param.
Cobalt (mg/L)	APMW-7	0.0025	0.00024	0.006	No	15	0.001461	0.00115	53.33	None	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-9	0.0025	0.000089	0.006	No	15	0.002178	0.0008492	86.67	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	APMW-10	3.235	2.596	5	No	15	2.915	0.4718	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-1R	10.32	6.574	5	Yes	15	8.447	2.764	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-2	20.13	17.62	5	Yes	15	18.87	1.854	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-3	6.991	5.249	5	Yes	15	6.12	1.286	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-4	2.628	1.873	5	No	15	2.251	0.5568	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-5	4.614	3.745	5	No	15	4.179	0.6411	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-6R	3.315	2.752	5	No	15	2.914	0.7941	0	None	x^3	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-7	7.15	5.657	5	Yes	15	6.329	1.271	0	None	x^2	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-8	4.029	3.361	5	No	15	3.695	0.4931	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-9	8.11	6.67	5	Yes	15	7.312	0.844	0	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-10	0.7761	0.6076	4	No	16	0.6919	0.1295	0	None	No	0.01	Param.
Fluoride (mg/L)	APMW-1R	5	0.14	4	No	15	2.75	2.49	53.33	None	No	0.01	NP (NDs)
Fluoride (mg/L)	APMW-2	5	0.06	4	No	15	1.413	2.24	26.67	None	No	0.01	NP (normality)

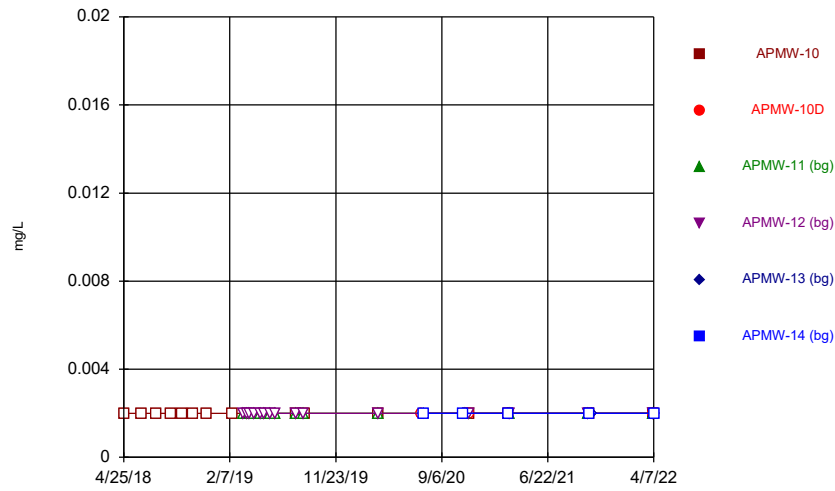
Confidence Intervals - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 5/24/2022, 1:37 PM

<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>
Fluoride (mg/L)	APMW-3	5	0.37	4	No	16	1.921	2.15	31.25	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-4	0.58	0.48	4	No	16	1.061	1.539	12.5	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-5	5	0.09	4	No	15	2.709	2.535	53.33	None	No	0.01	NP (NDs)
Fluoride (mg/L)	APMW-6R	6.4	0.32	4	No	15	4.152	2.029	73.33	None	No	0.01	NP (NDs)
Fluoride (mg/L)	APMW-7	1.6	0.12	4	No	16	1.229	1.919	18.75	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-8	1.1	0.74	4	No	16	1.866	3.773	0	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-9	5	0.06	4	No	15	1.777	2.367	33.33	None	No	0.01	NP (normality)
Lead (mg/L)	APMW-10	0.0011	0.0006	0.015	No	15	0.00087	0.0003022	73.33	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-2	0.001	0.00022	0.015	No	15	0.000948	0.0002014	93.33	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-3	0.001	0.00048	0.015	No	15	0.0009273	0.000192	86.67	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-4	0.001	0.00062	0.015	No	15	0.0009747	0.00009812	93.33	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-5	0.0011	0.00041	0.015	No	15	0.0009247	0.0002208	80	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-6R	0.001	0.00032	0.015	No	15	0.0009547	0.0001756	93.33	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-7	0.0019	0.001	0.015	No	15	0.00106	0.0002324	93.33	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-8	0.0013	0.001	0.015	No	15	0.00106	0.0001682	86.67	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-9	0.001	0.00039	0.015	No	15	0.0009013	0.000265	86.67	None	No	0.01	NP (NDs)
Lithium (mg/L)	APMW-10	0.0192	0.01047	0.04	No	15	0.01517	0.007377	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	APMW-1R	0.014	0.011	0.04	No	15	0.0125	0.004049	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-2	0.02976	0.02331	0.04	No	15	0.02653	0.004764	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-3	0.088	0.07	0.04	Yes	15	0.07837	0.01111	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-4	0.063	0.051	0.04	Yes	15	0.05707	0.00949	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-5	0.052	0.044	0.04	Yes	15	0.0492	0.009578	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-6R	0.0585	0.0529	0.04	Yes	15	0.0557	0.004131	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-7	0.004294	0.002501	0.04	No	14	0.003407	0.001385	21.43	Kaplan-Meier	sqrt(x)	0.01	Param.
Lithium (mg/L)	APMW-8	0.099	0.0735	0.04	Yes	15	0.09043	0.02432	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-9	0.005143	0.003092	0.04	No	14	0.004121	0.001875	21.43	Kaplan-Meier	ln(x)	0.01	Param.
Mercury (mg/L)	APMW-10	0.0002	0.000085	0.002	No	13	0.0001912	0.0000319	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-1R	0.0002	0.00015	0.002	No	13	0.0001962	0.00001387	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-5	0.0002	0.000093	0.002	No	13	0.0001918	0.00002968	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-7	0.0002	0.00009	0.002	No	13	0.0001915	0.00003051	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-8	0.0002	0.000077	0.002	No	13	0.0001905	0.00003411	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-9	0.00035	0.0002	0.002	No	13	0.0002115	0.0000416	92.31	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	APMW-10	0.11	0.055	0.1	No	15	0.08493	0.02633	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	APMW-2	0.015	0.00079	0.1	No	15	0.01405	0.003669	93.33	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	APMW-3	0.07095	0.06192	0.1	No	15	0.06643	0.006662	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-4	0.009963	0.006997	0.1	No	15	0.00848	0.002188	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-5	0.09993	0.0666	0.1	No	15	0.08327	0.02459	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-6R	0.4521	0.3759	0.1	Yes	15	0.414	0.05629	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-7	0.015	0.0062	0.1	No	15	0.01106	0.005154	60	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	APMW-8	0.1512	0.09199	0.1	No	15	0.1216	0.04369	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-9	0.015	0.00093	0.1	No	15	0.01312	0.004956	86.67	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-10	0.005	0.00061	0.05	No	15	0.004087	0.001892	80	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-2	0.005	0.00072	0.05	No	15	0.004113	0.001837	80	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-3	0.005	0.001	0.05	No	15	0.003278	0.001924	53.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-4	0.005	0.00068	0.05	No	15	0.004106	0.001852	80	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-5	0.005	0.00071	0.05	No	15	0.004127	0.001807	80	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-7	0.005	0.00046	0.05	No	15	0.004081	0.001903	80	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-8	0.005	0.0006	0.05	No	15	0.004101	0.001862	80	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-9	0.005	0.00081	0.05	No	15	0.004099	0.001868	80	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-10	0.001	0.00068	0.002	No	15	0.000894	0.0002439	80	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-1R	0.001	0.00019	0.002	No	15	0.000946	0.0002091	93.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-2	0.001	0.00084	0.002	No	15	0.0009893	0.00004131	93.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-3	0.001	0.00012	0.002	No	15	0.0009413	0.0002272	93.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-8	0.0013	0.00025	0.002	No	15	0.0009147	0.0002967	80	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-9	0.0016	0.00024	0.002	No	15	0.0009893	0.0002586	86.67	None	No	0.01	NP (NDs)

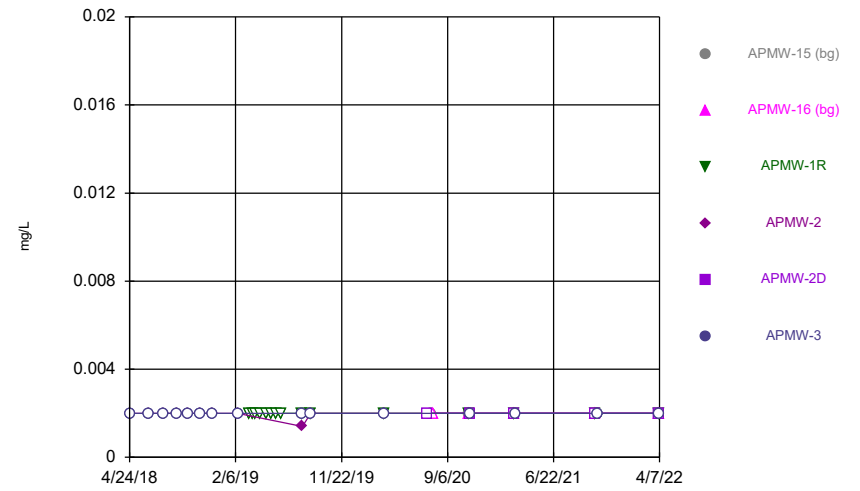
FIGURE A.

Time Series



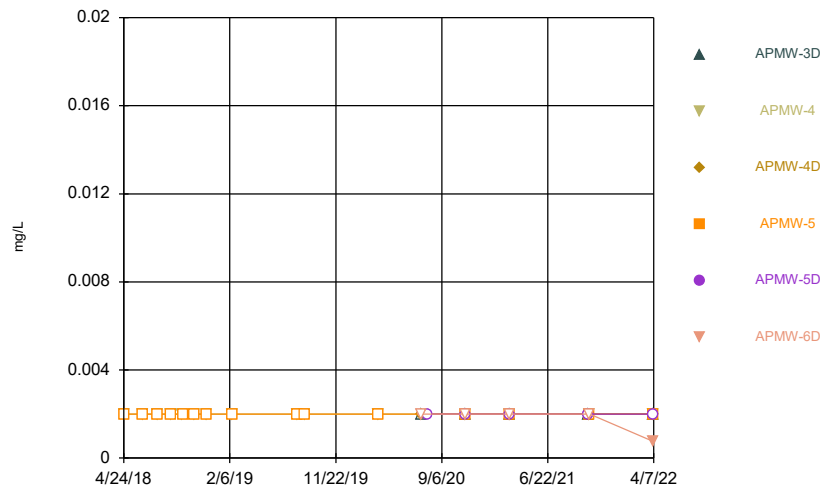
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



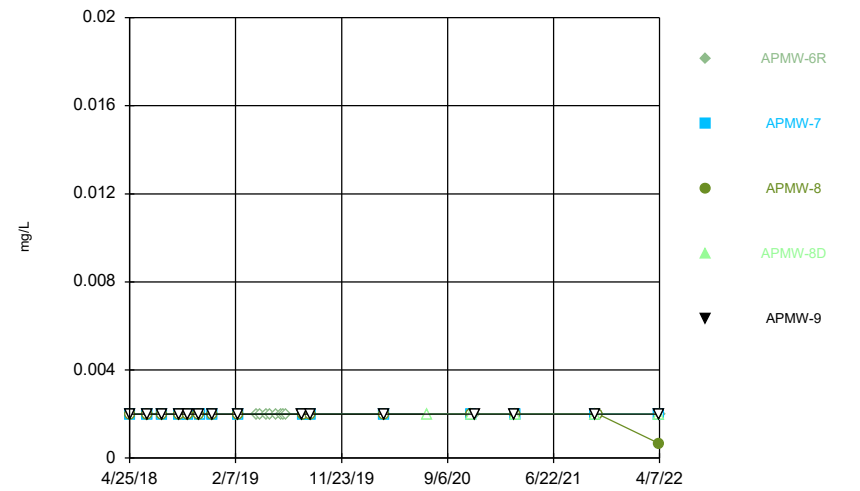
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



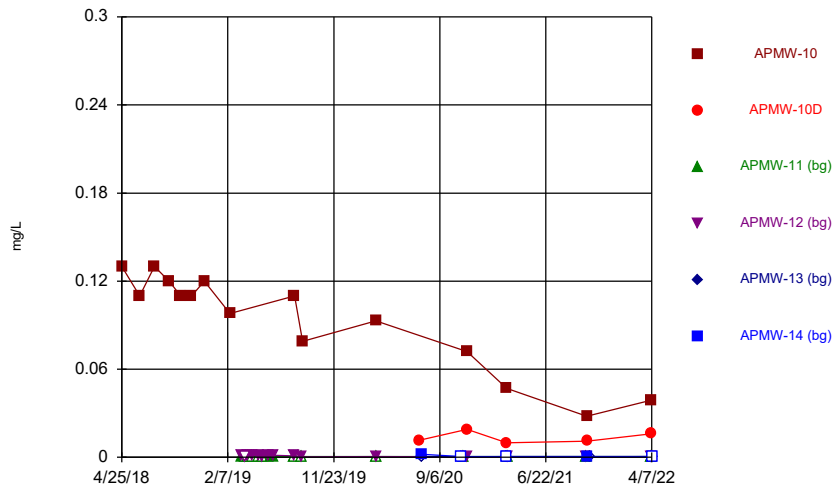
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



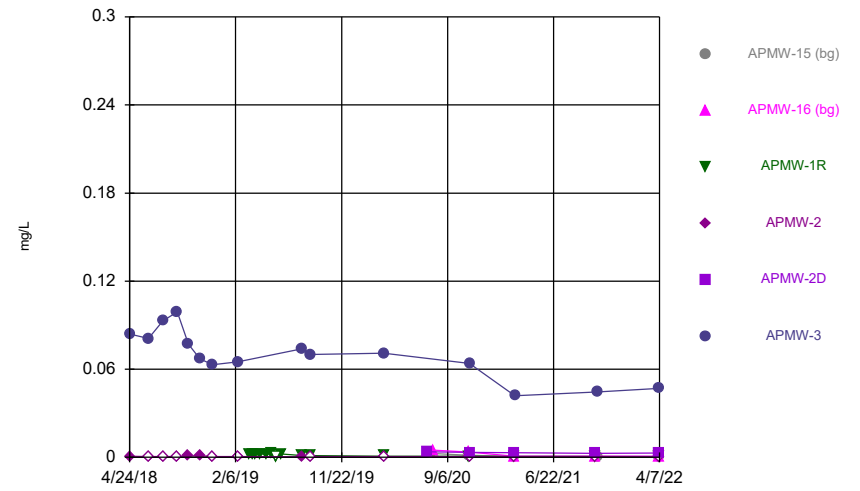
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



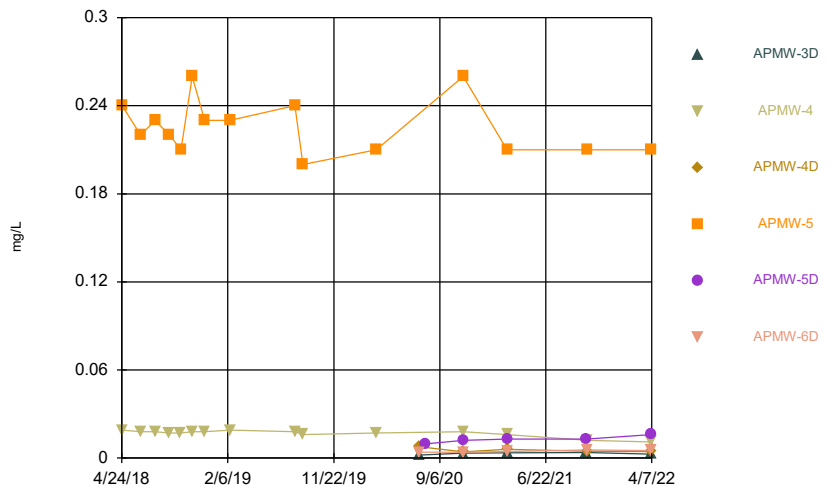
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



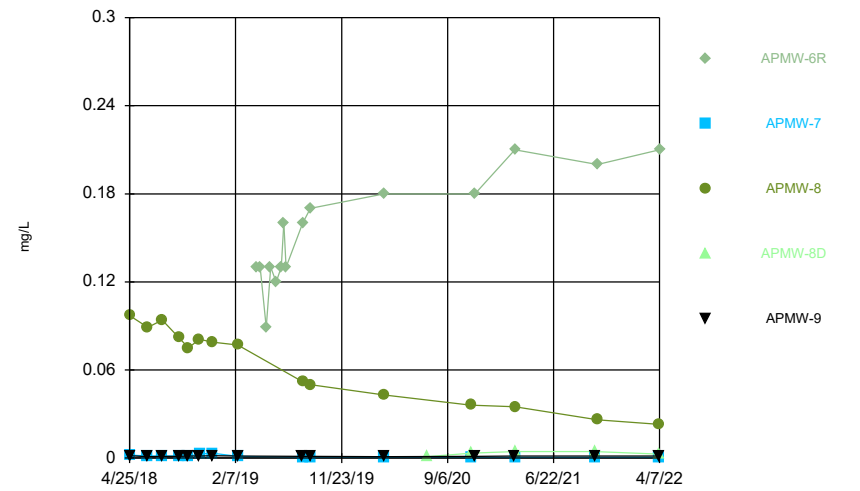
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



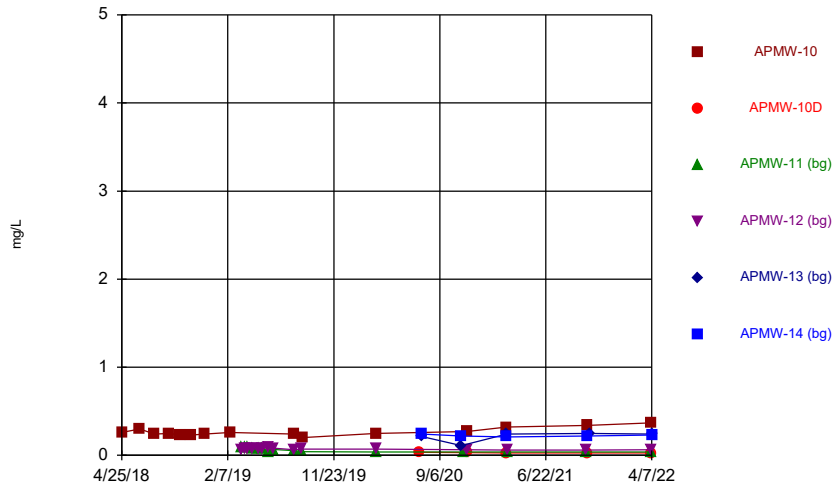
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Time Series



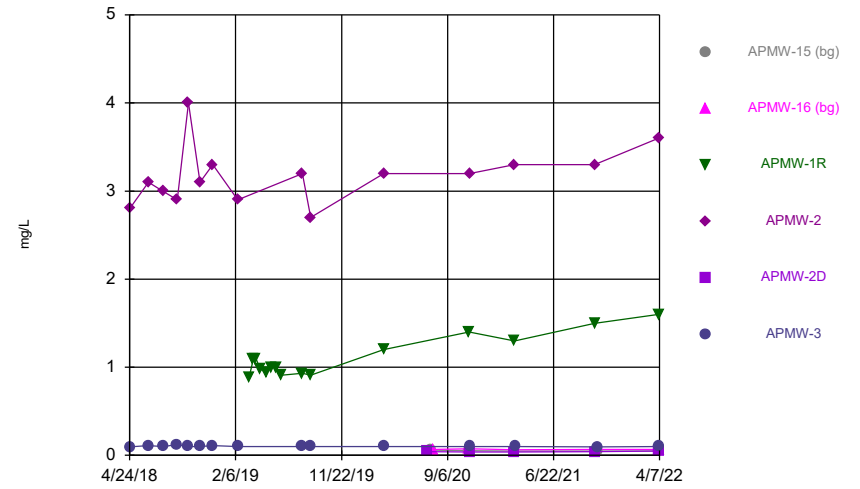
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



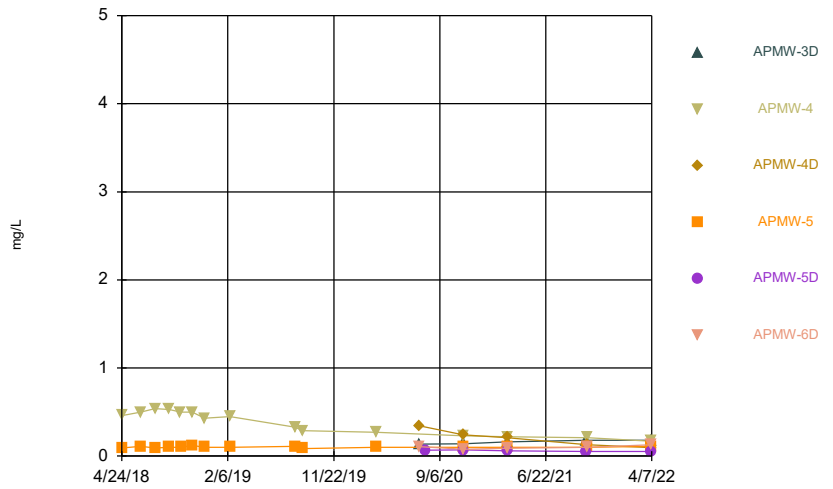
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



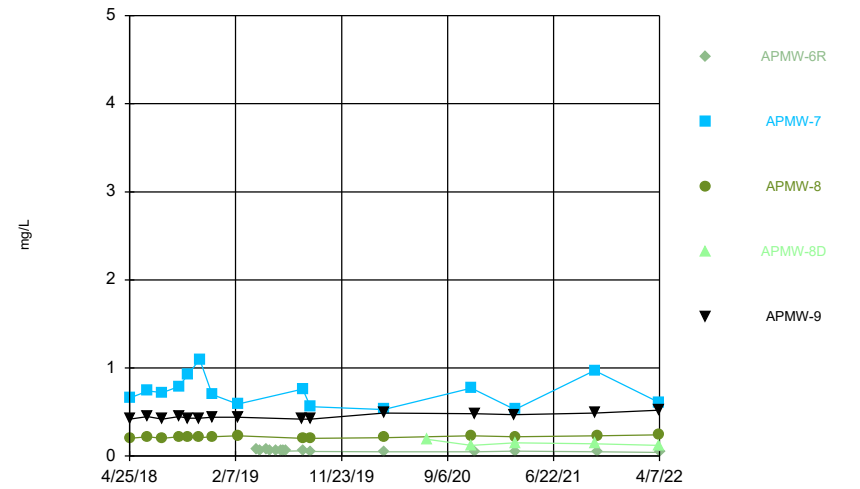
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



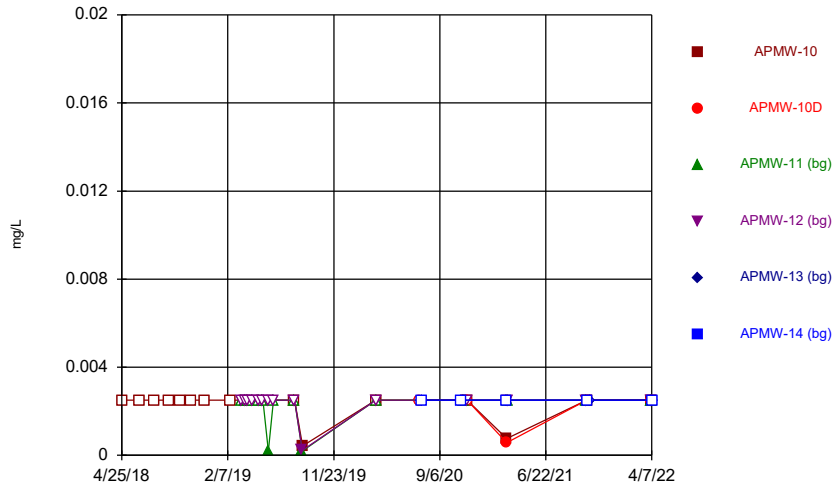
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



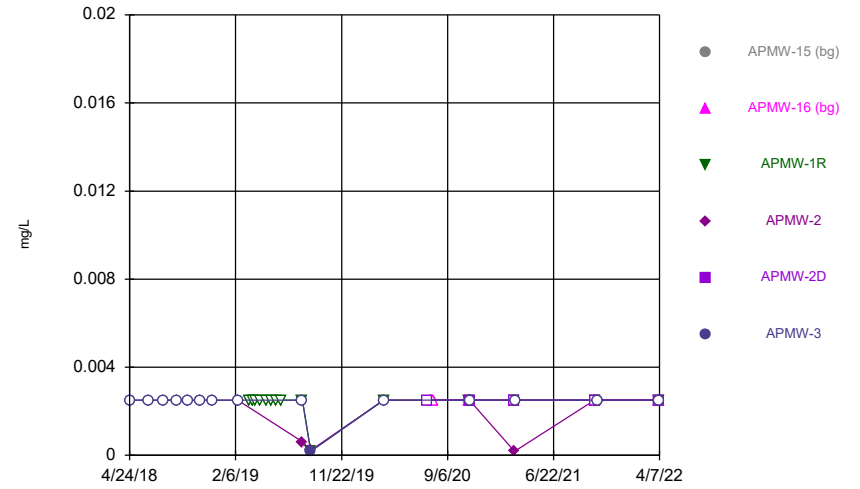
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



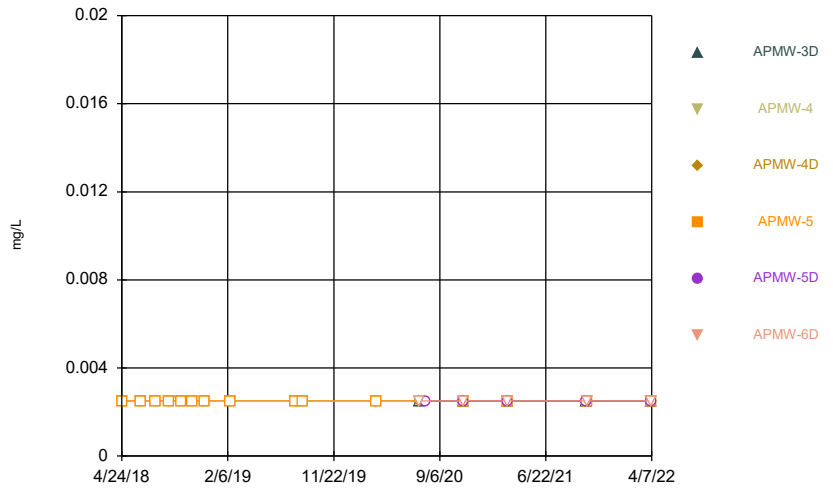
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



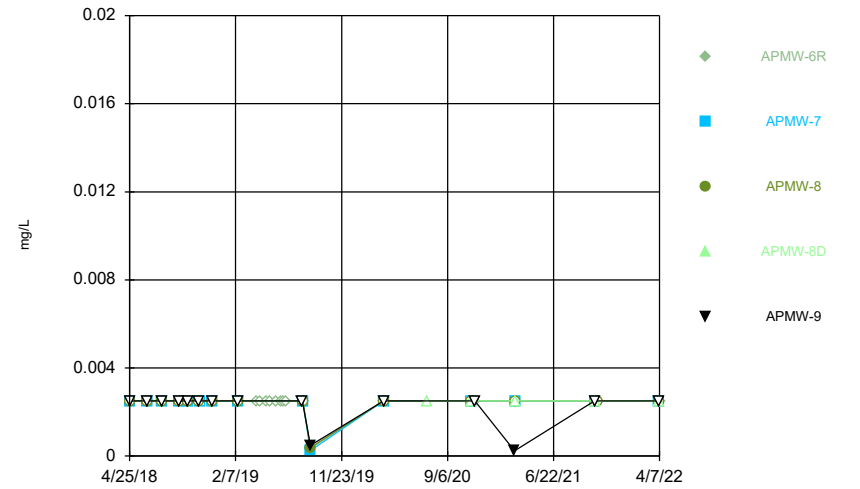
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



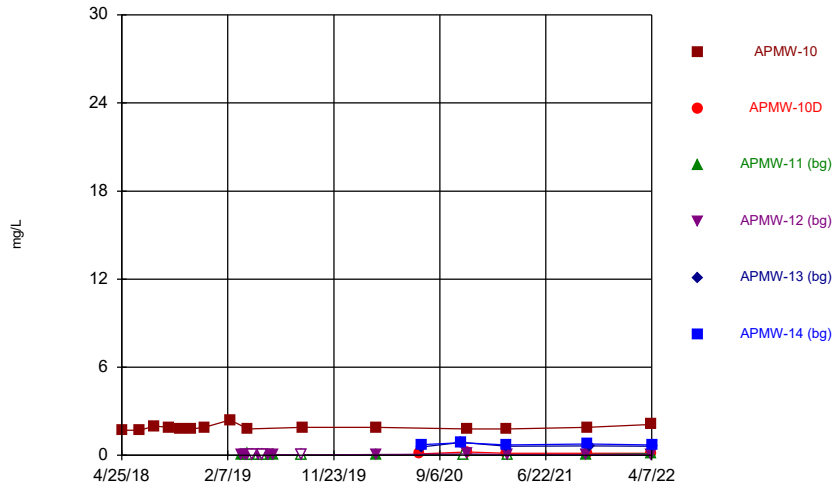
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



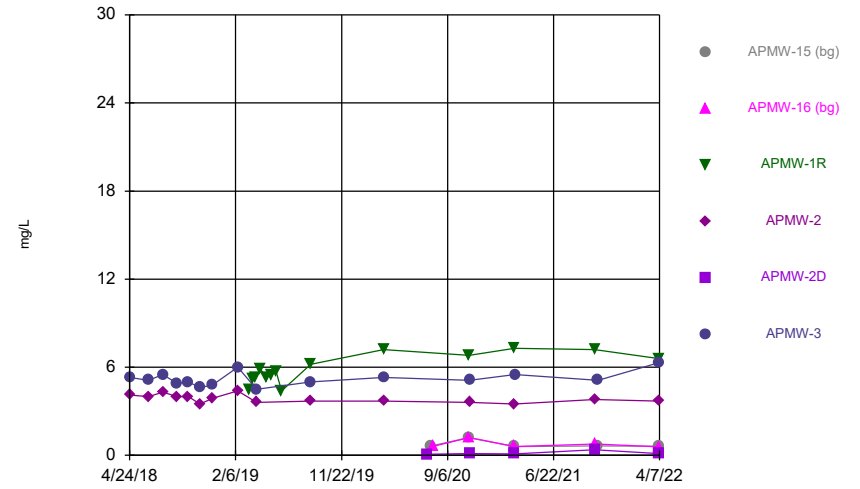
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



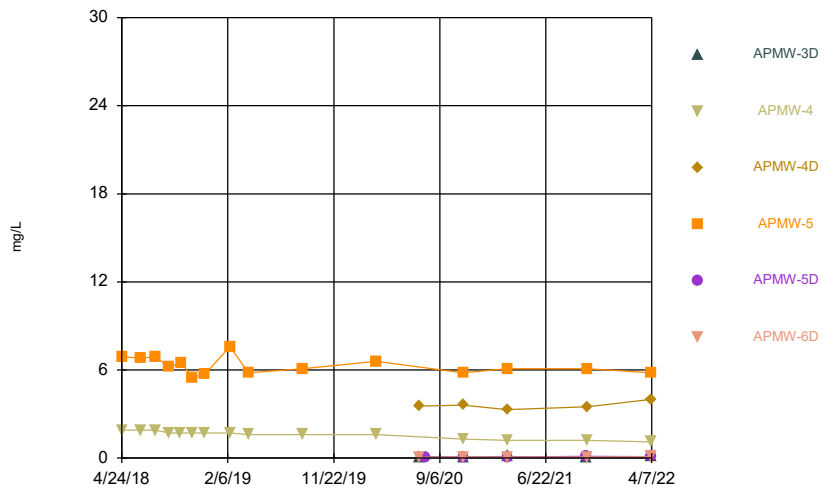
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



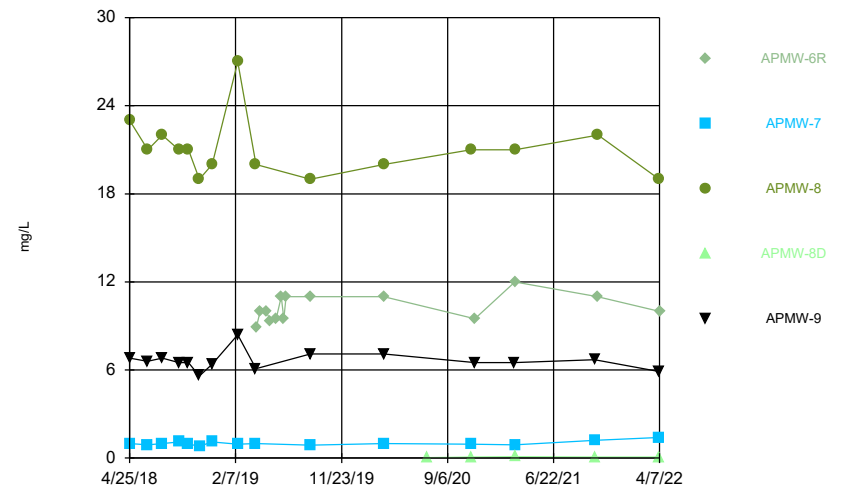
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



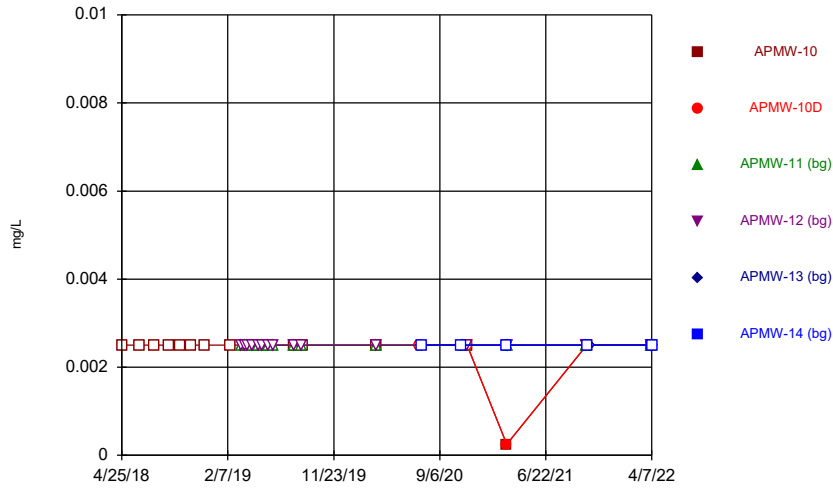
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



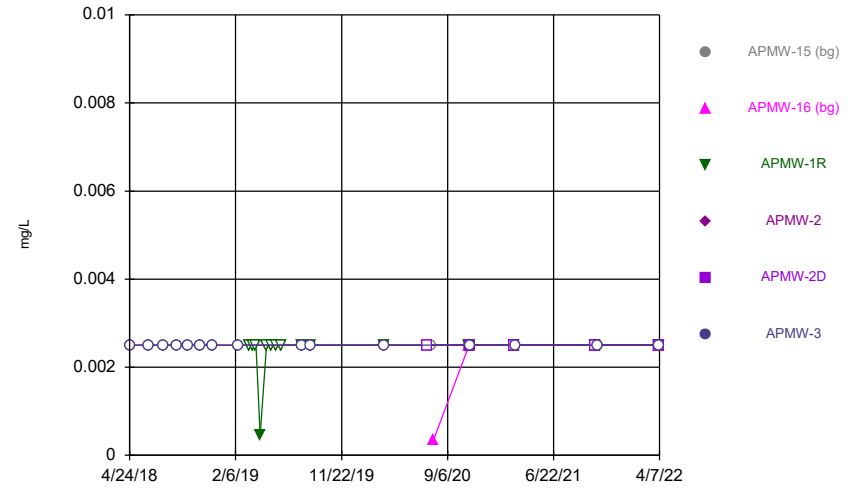
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



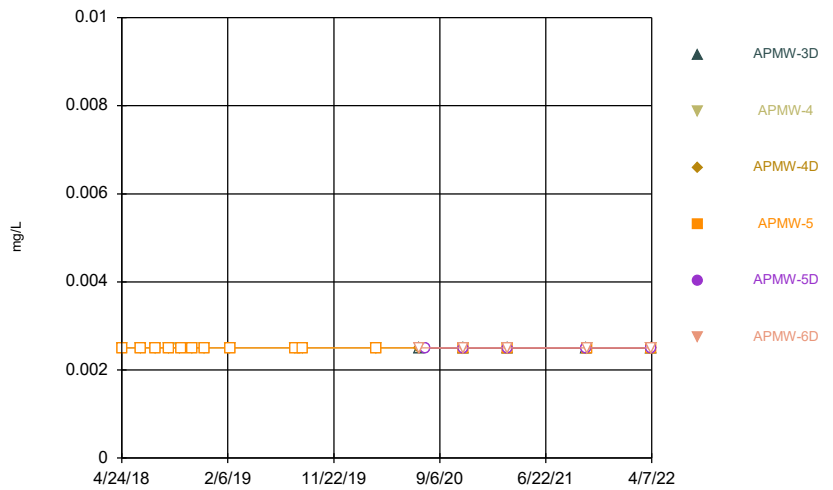
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



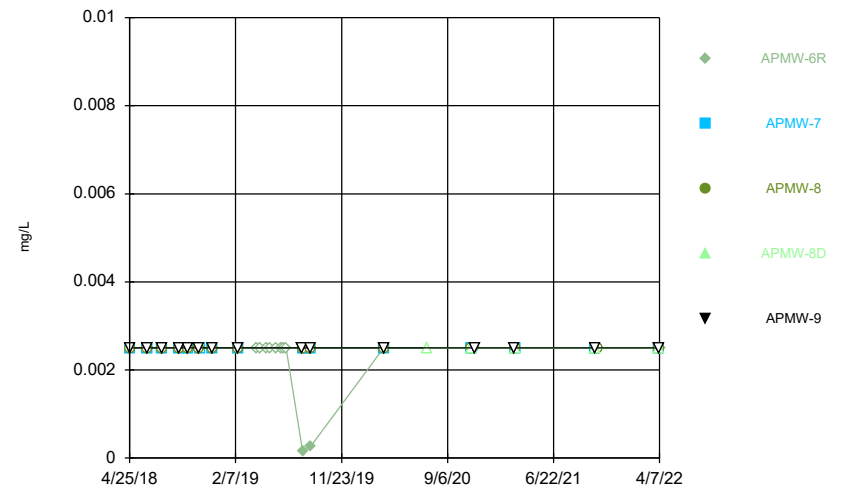
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



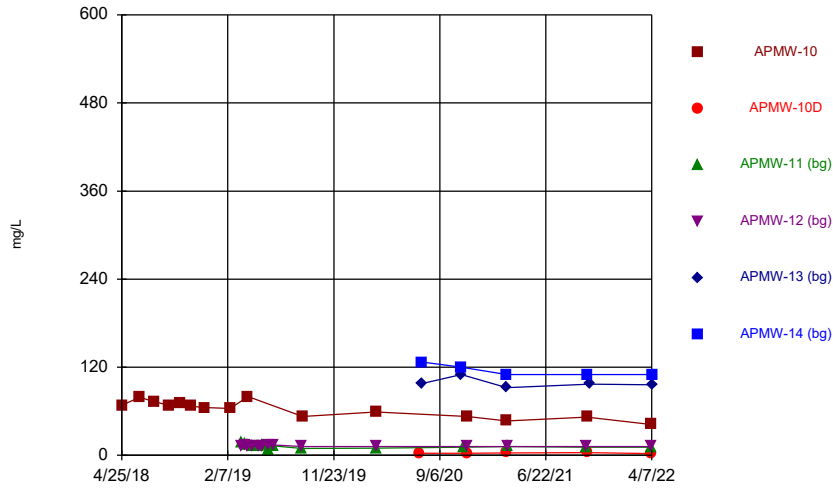
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



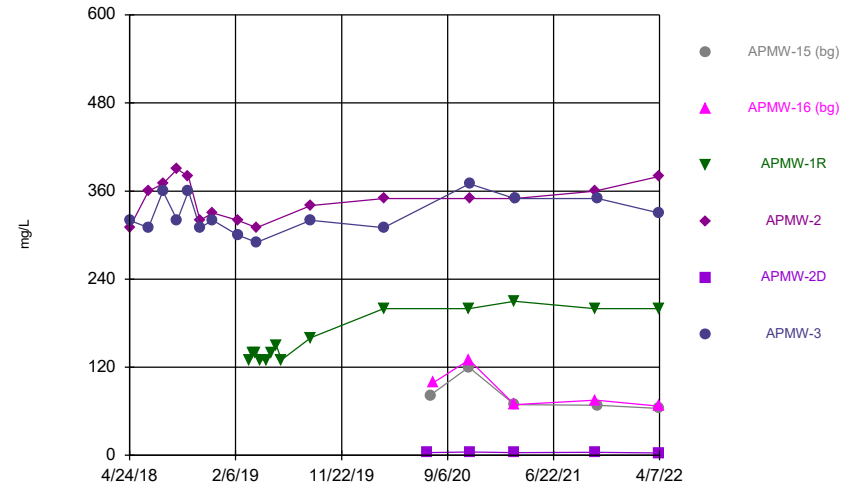
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



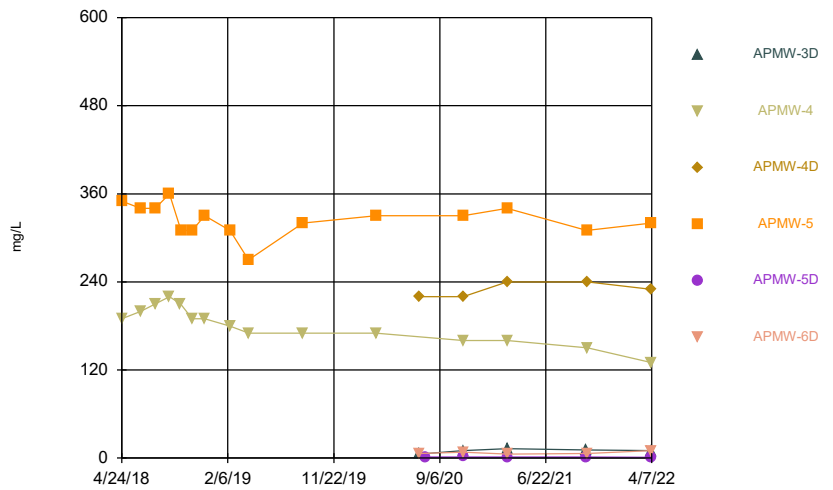
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



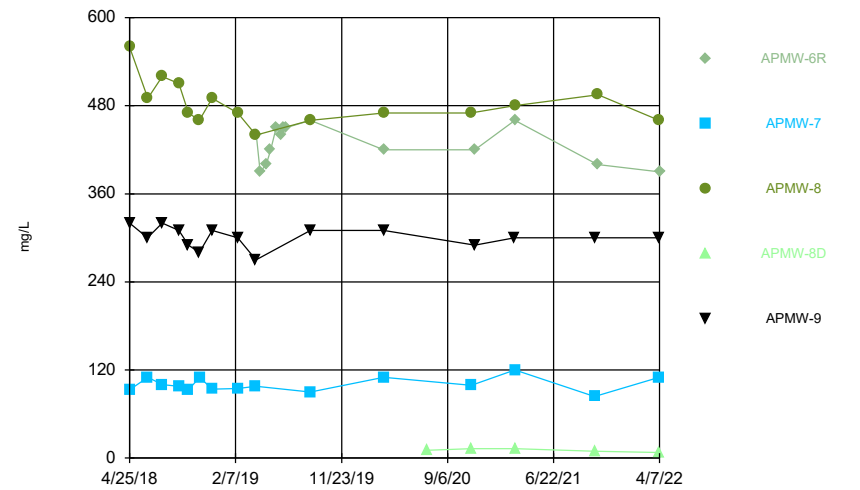
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



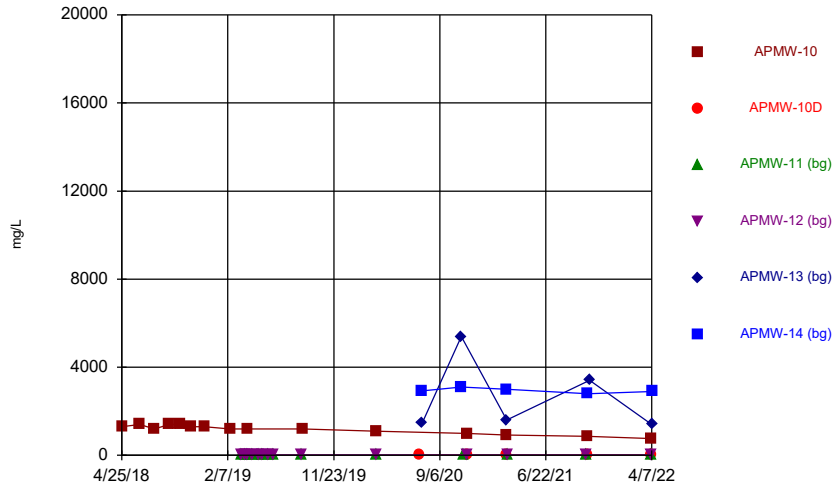
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



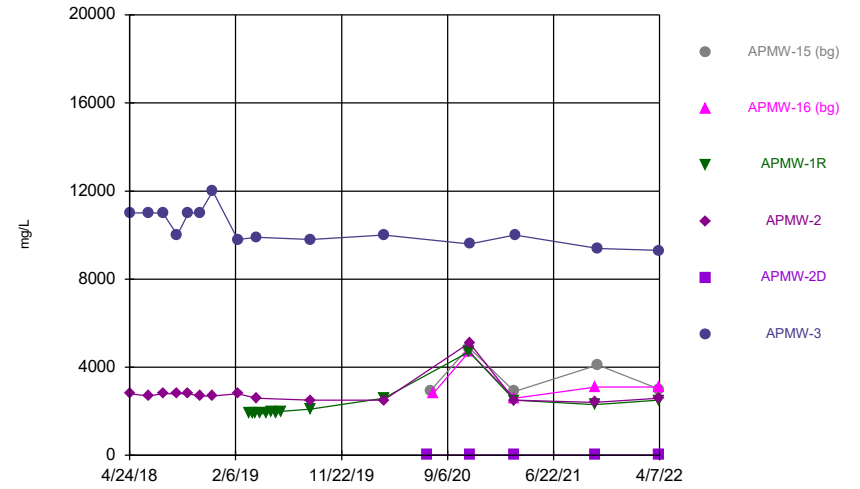
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



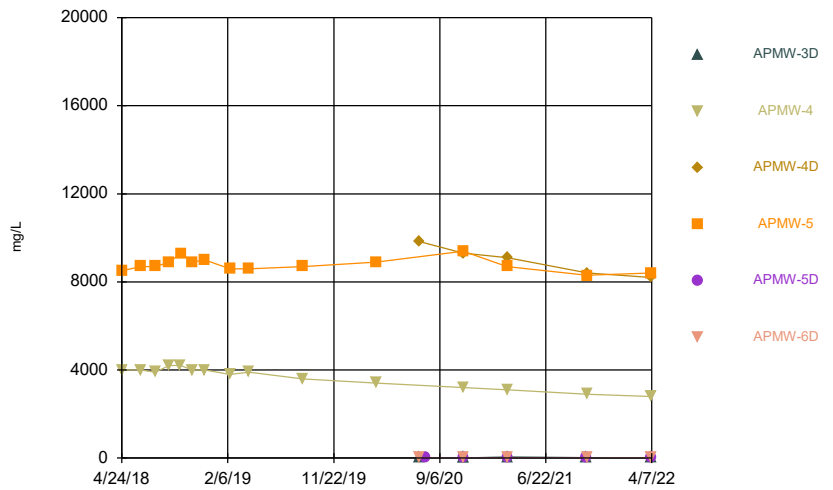
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



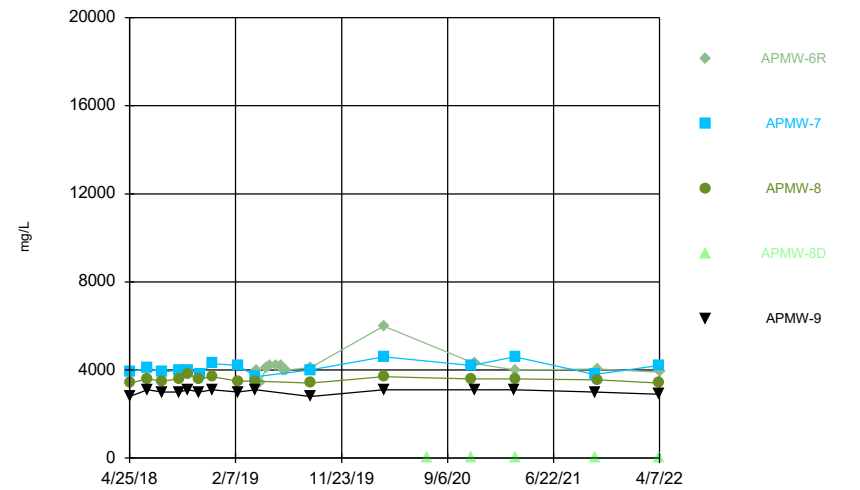
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



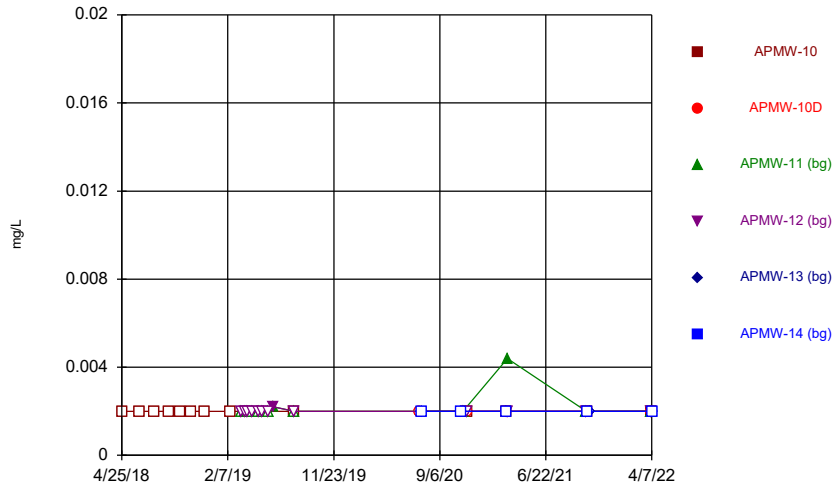
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



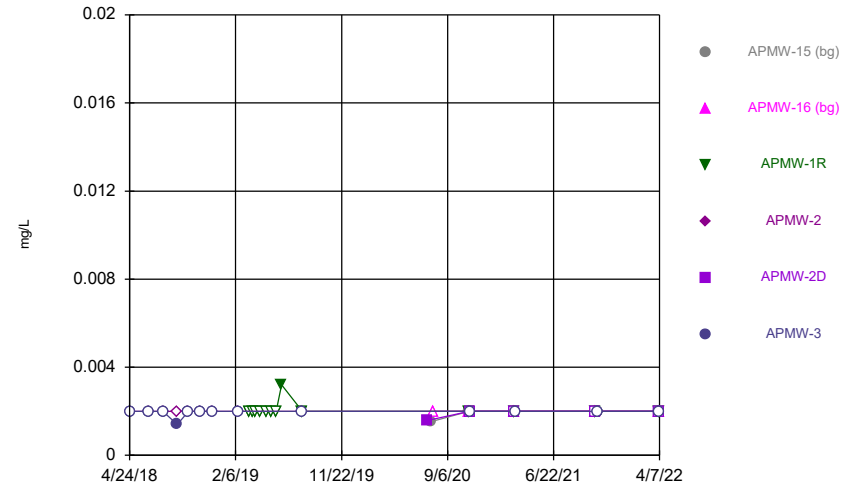
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



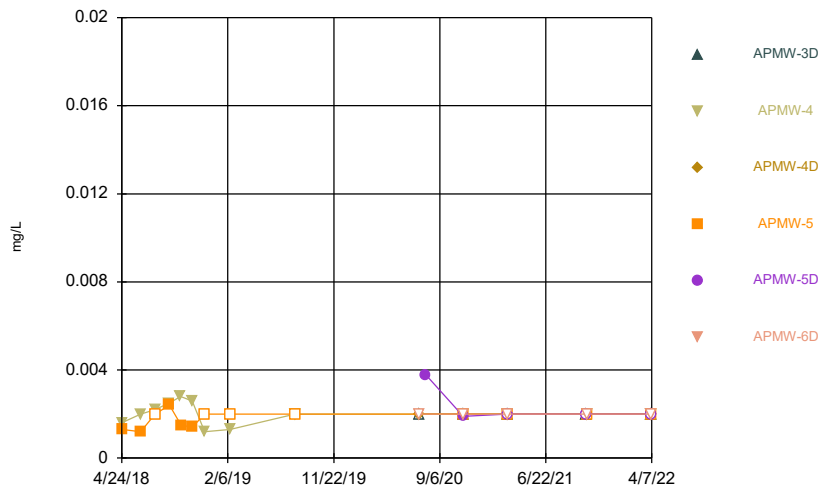
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



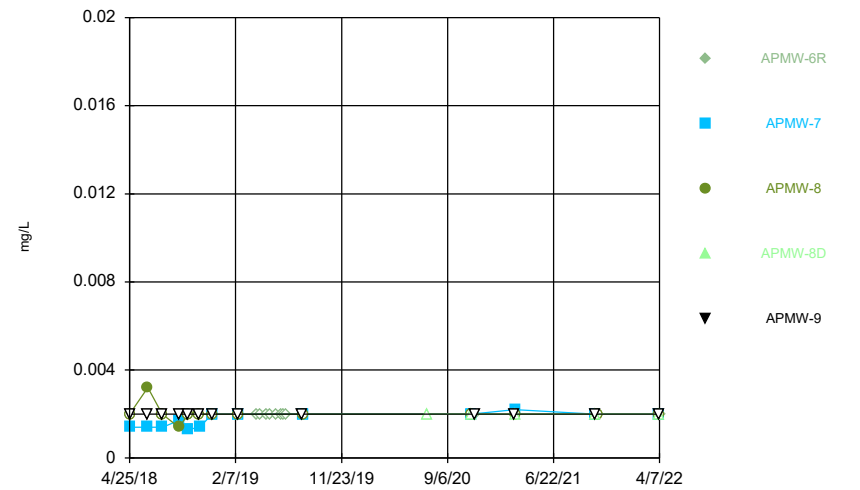
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



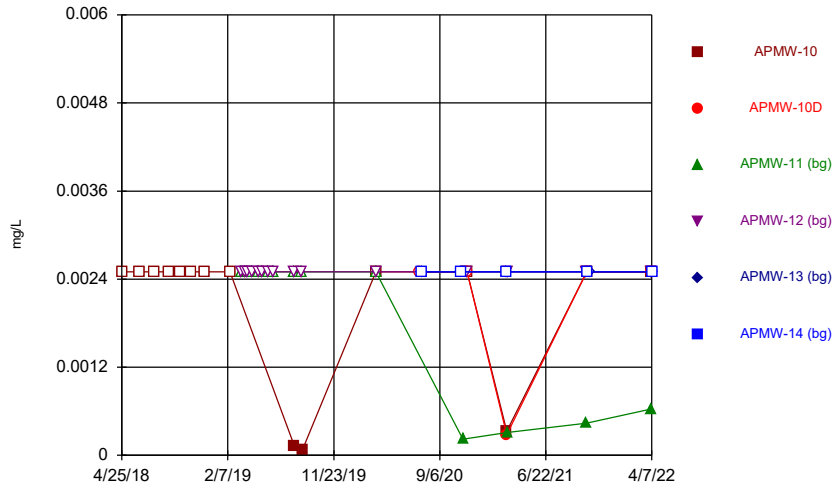
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



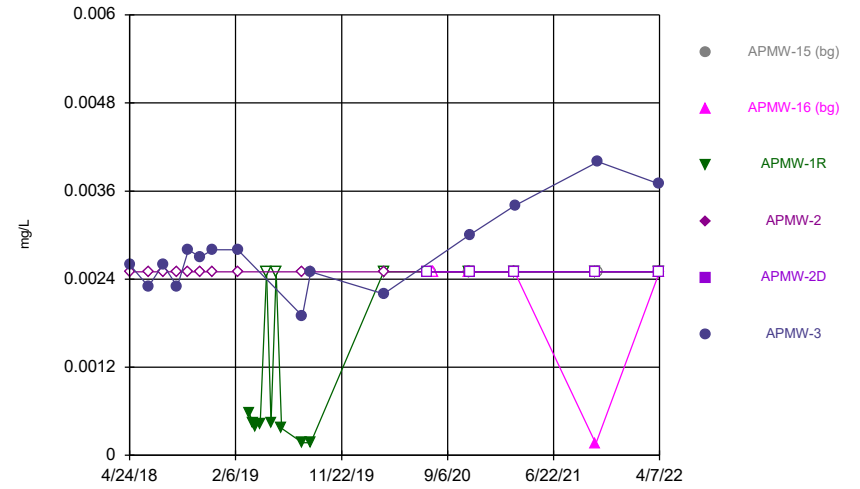
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



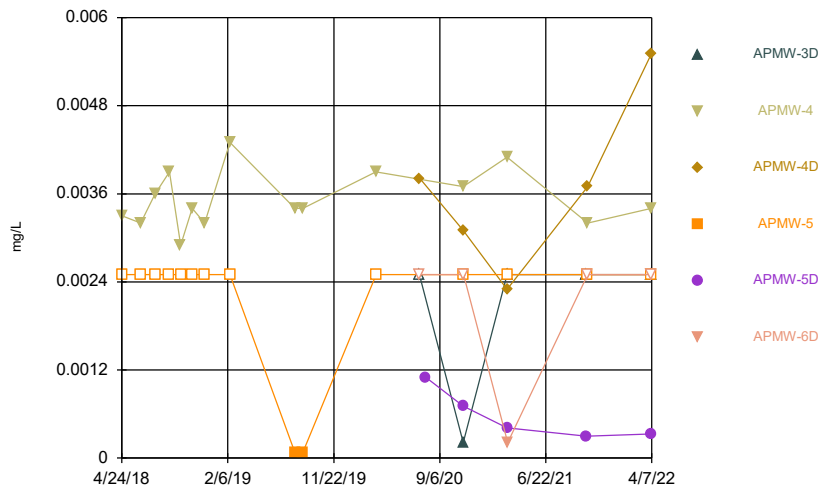
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



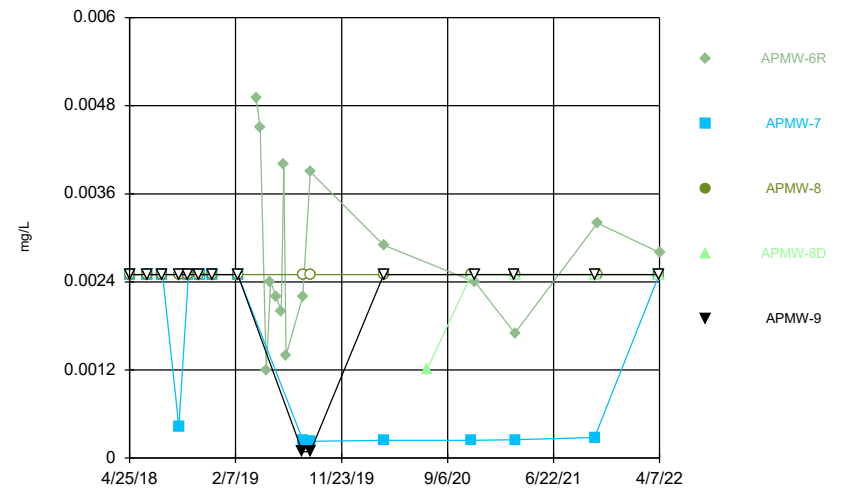
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



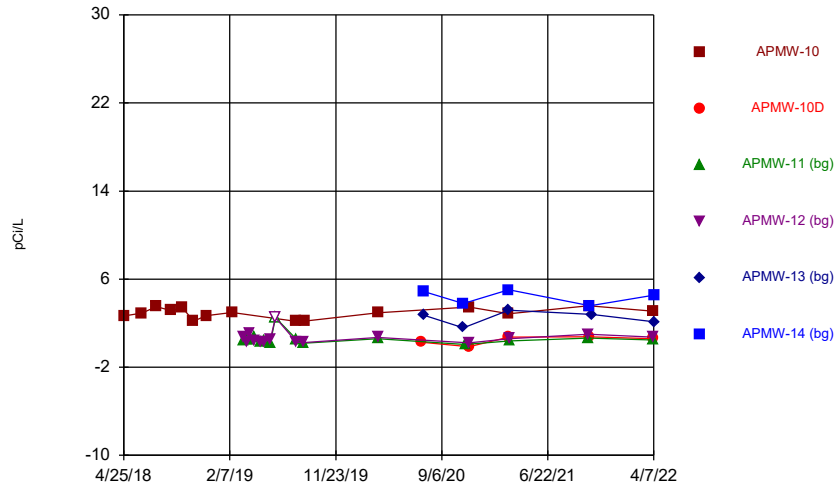
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



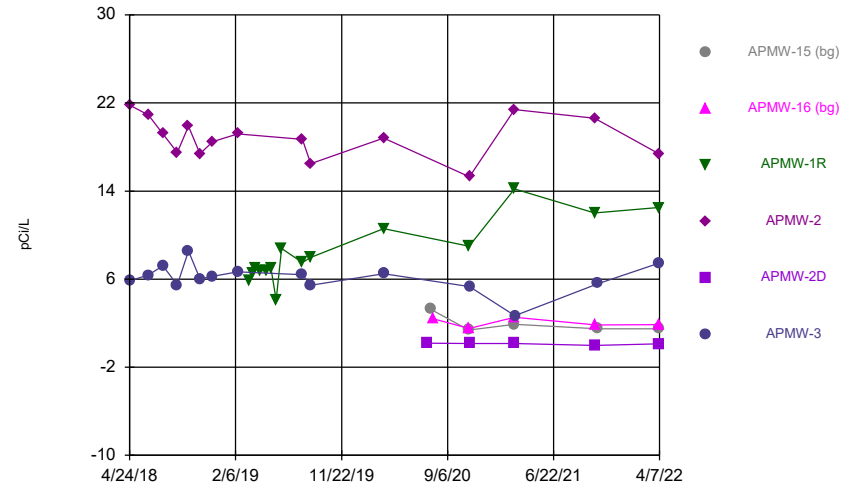
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



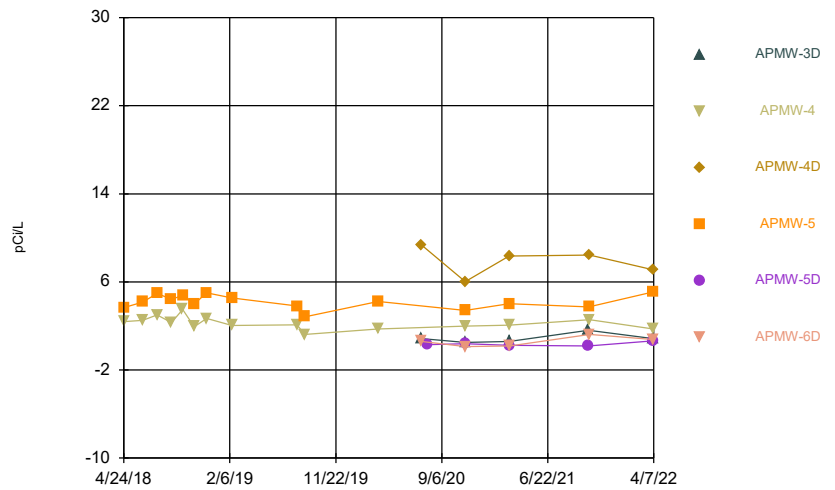
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



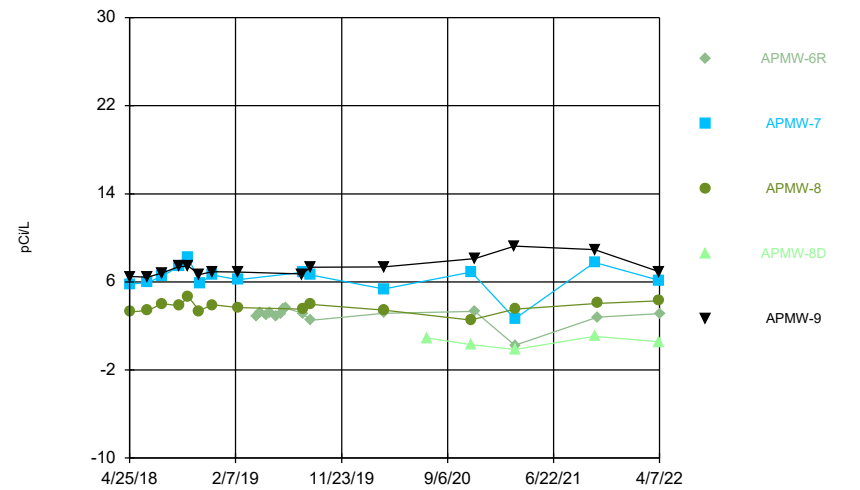
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



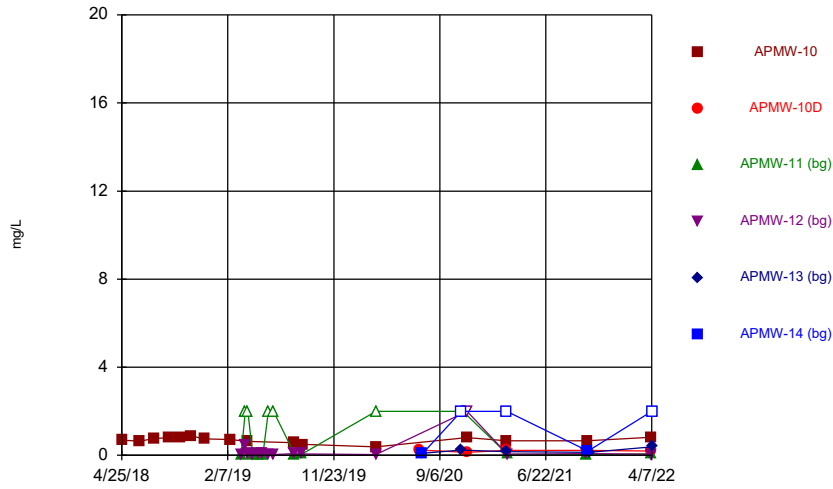
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Time Series



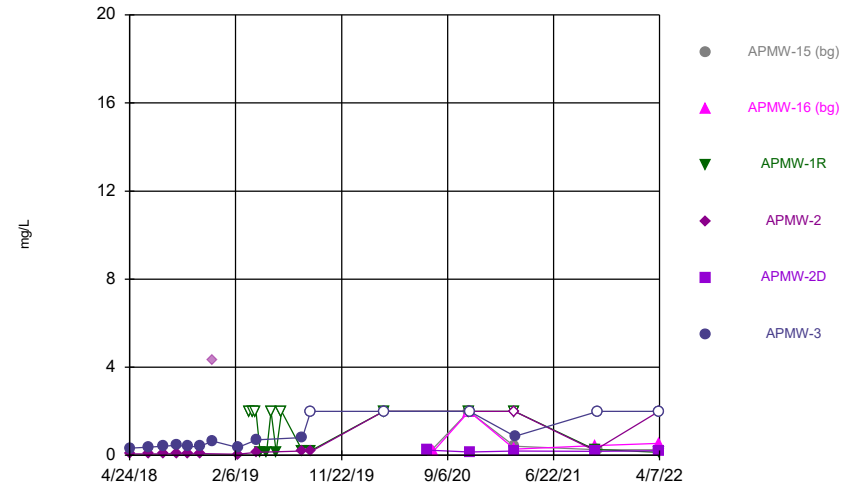
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



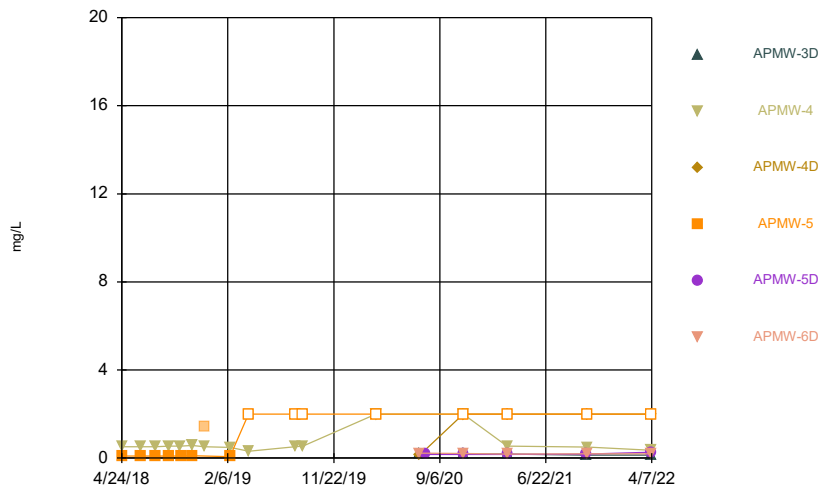
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



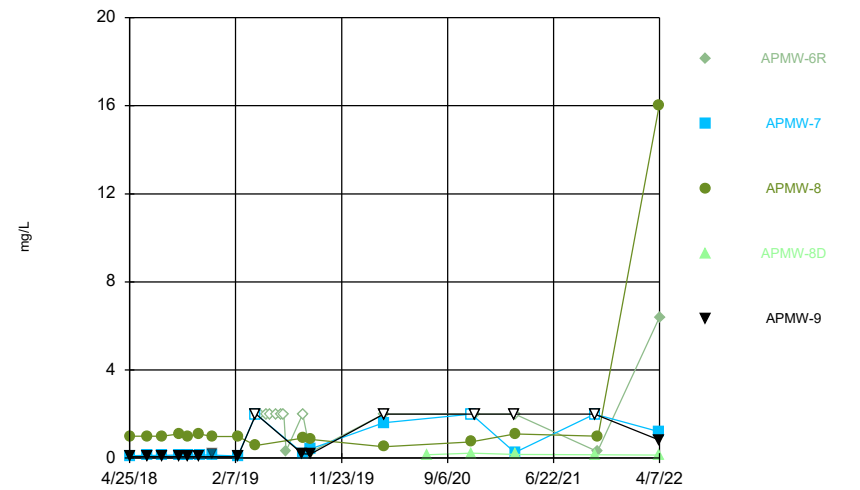
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



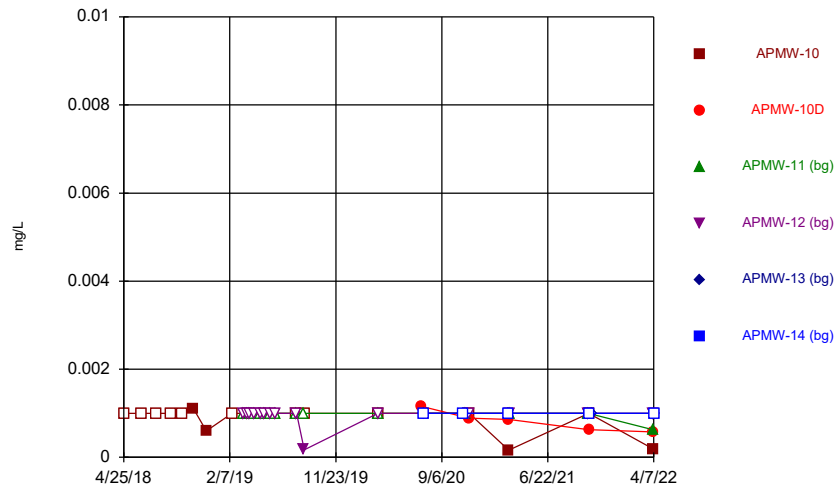
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



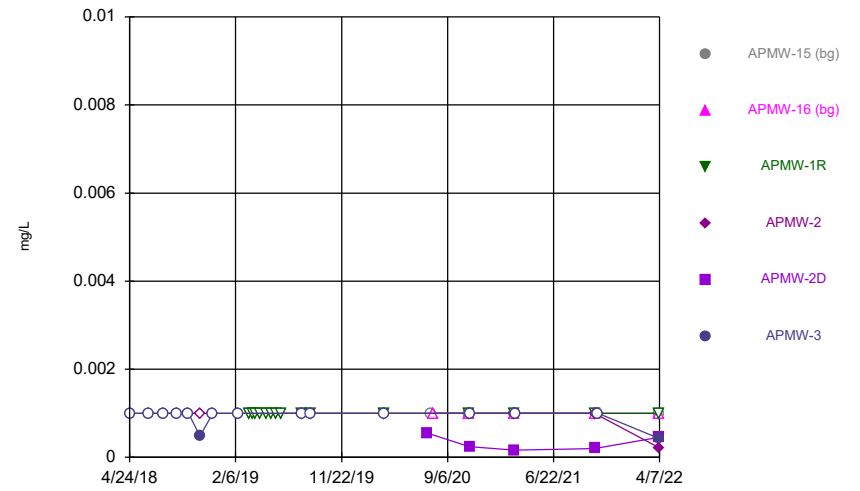
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



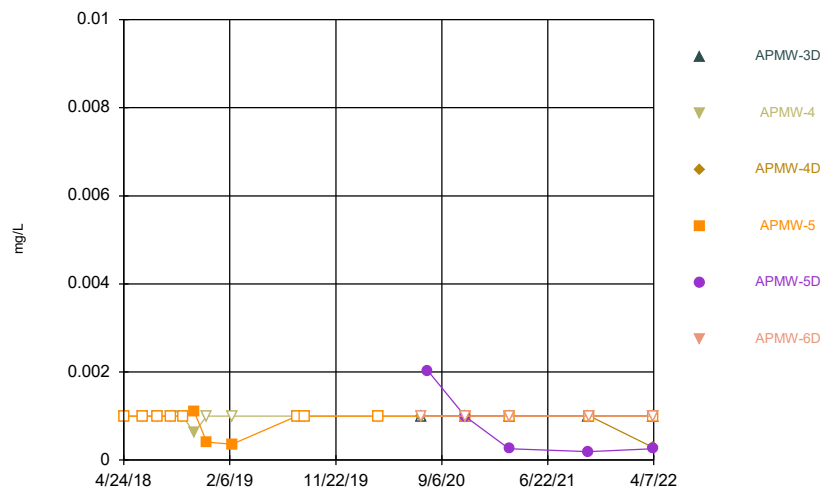
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



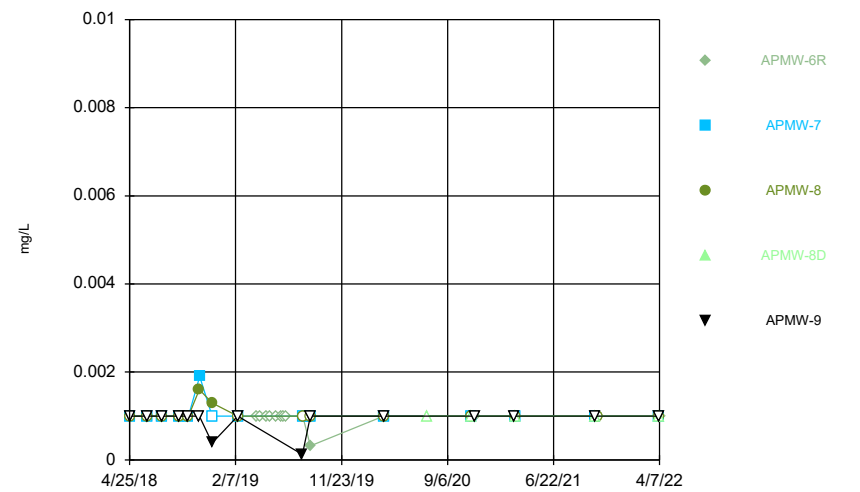
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



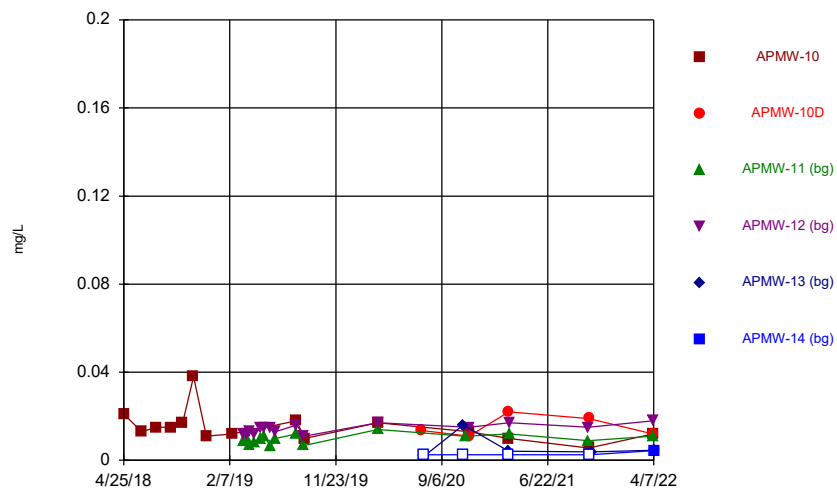
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



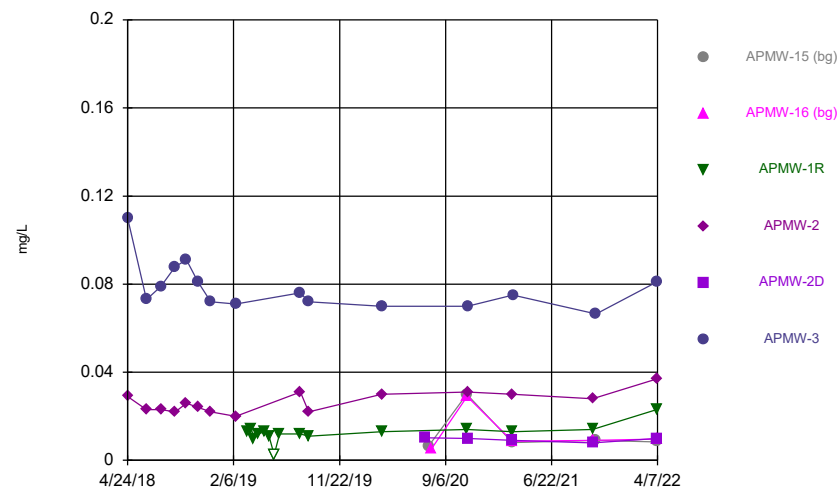
Constituent: Lead Analysis Run 5/13/2022 1:04 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



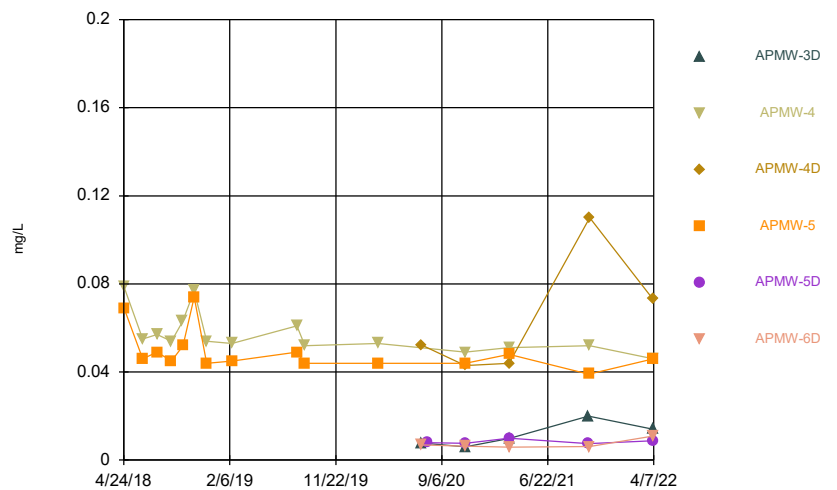
Constituent: Lithium Analysis Run 5/13/2022 1:04 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



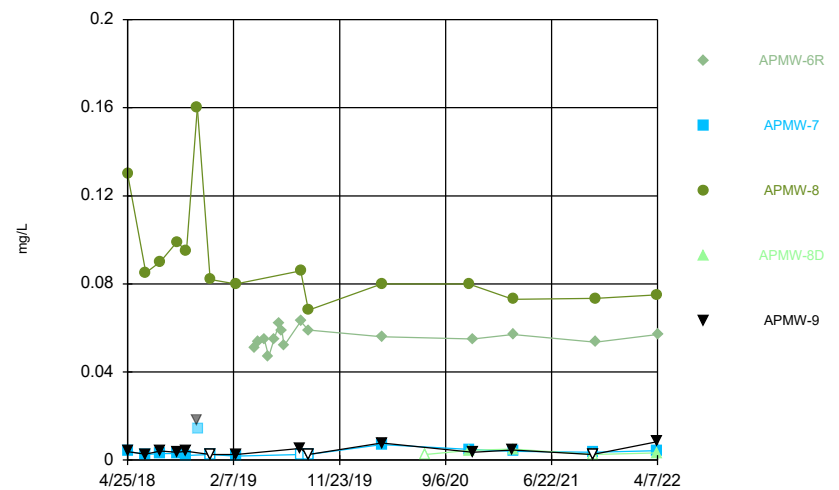
Constituent: Lithium Analysis Run 5/13/2022 1:04 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



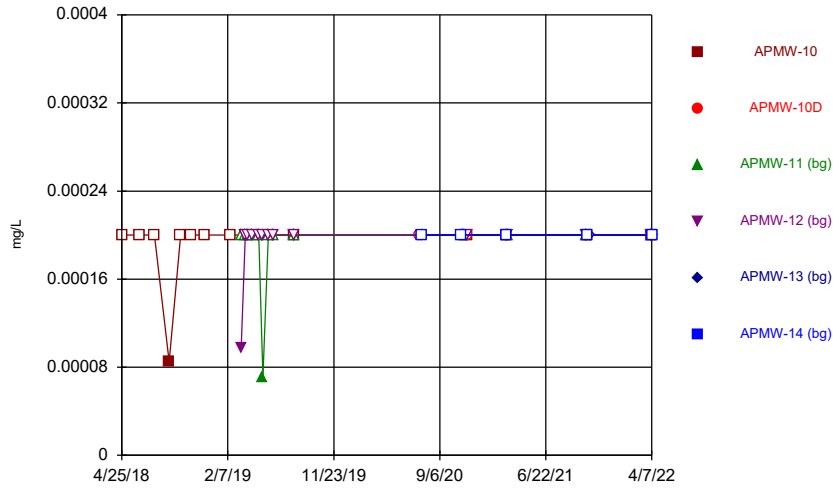
Constituent: Lithium Analysis Run 5/13/2022 1:05 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



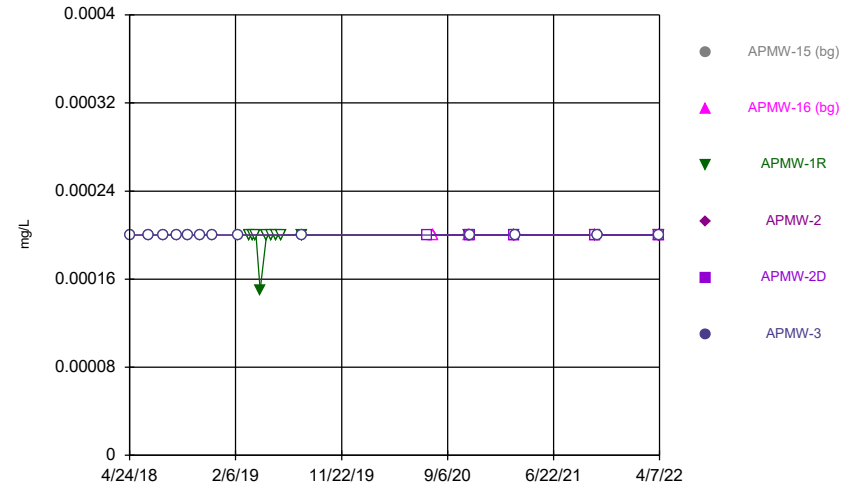
Constituent: Lithium Analysis Run 5/13/2022 1:05 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



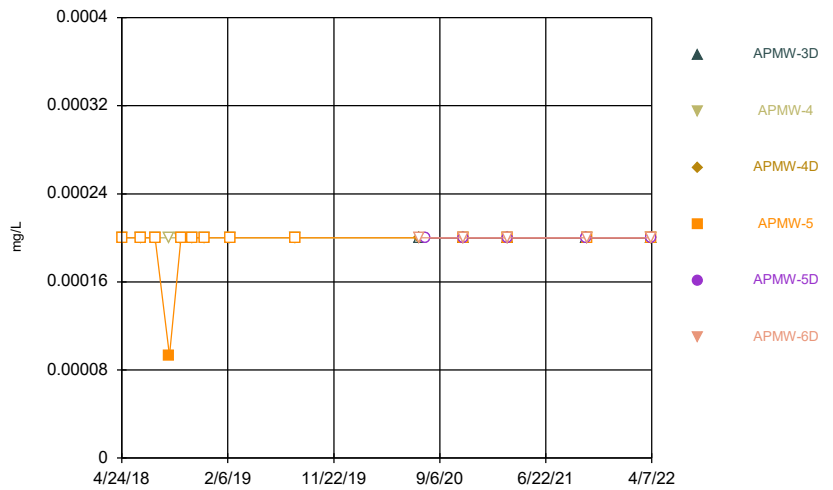
Constituent: Mercury Analysis Run 5/13/2022 1:05 PM View: Time Series
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



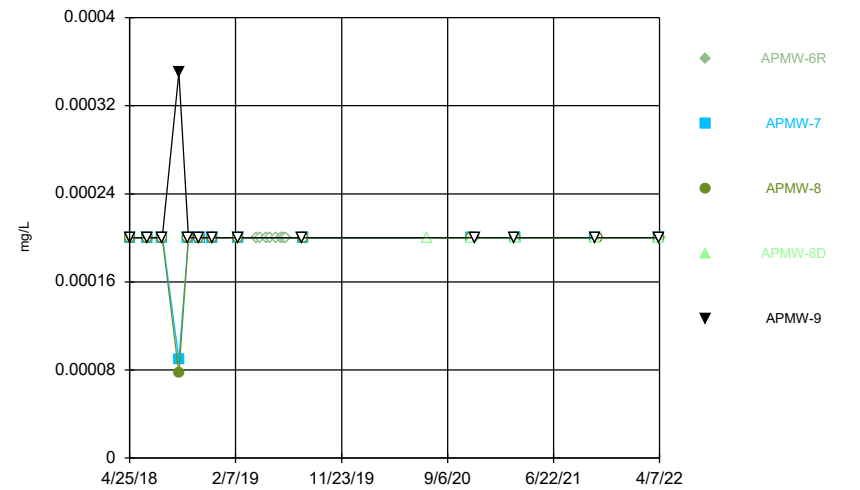
Constituent: Mercury Analysis Run 5/13/2022 1:05 PM View: Time Series
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



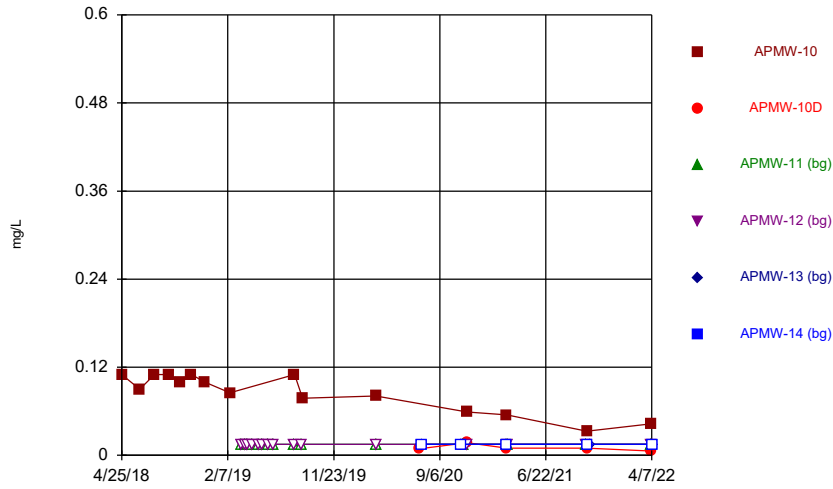
Constituent: Mercury Analysis Run 5/13/2022 1:05 PM View: Time Series
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



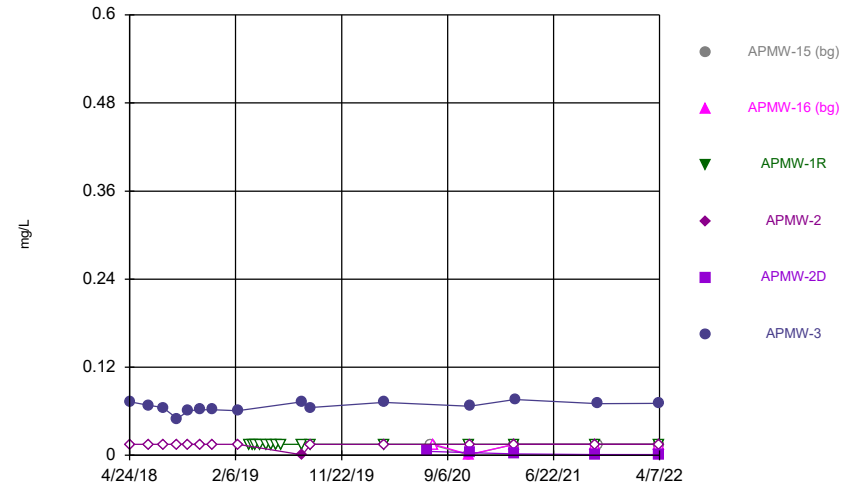
Constituent: Mercury Analysis Run 5/13/2022 1:05 PM View: Time Series
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



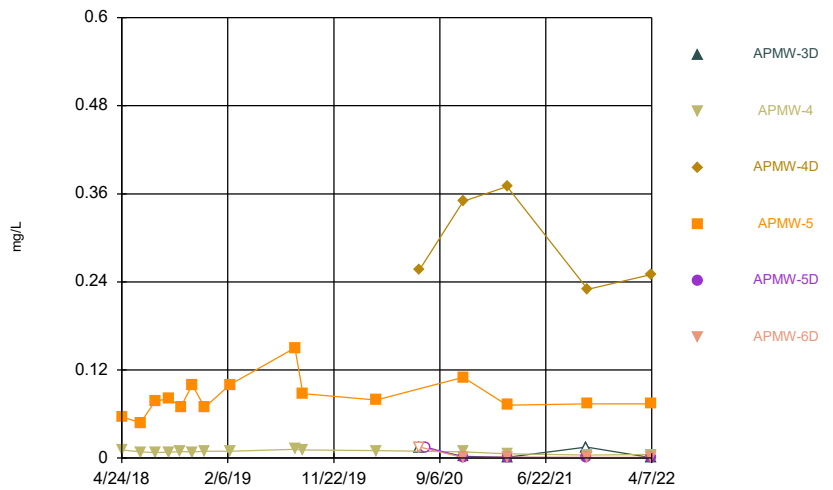
Constituent: Molybdenum Analysis Run 5/13/2022 1:05 PM View: Time Series
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



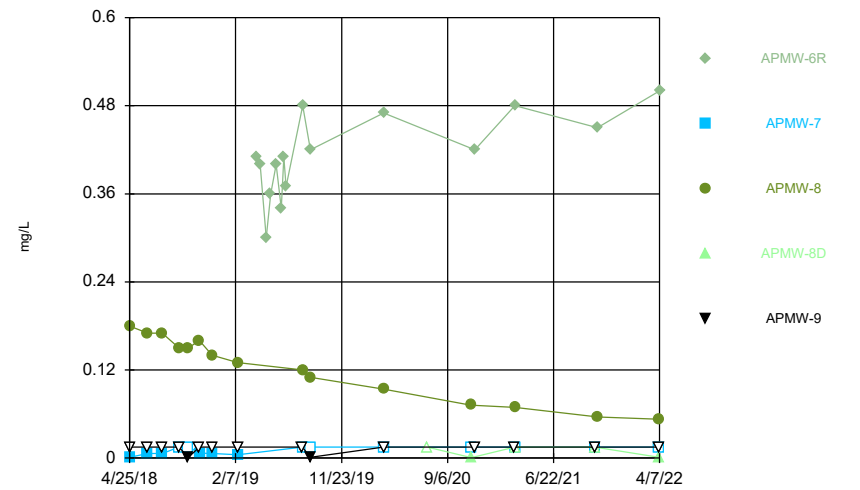
Constituent: Molybdenum Analysis Run 5/13/2022 1:05 PM View: Time Series
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



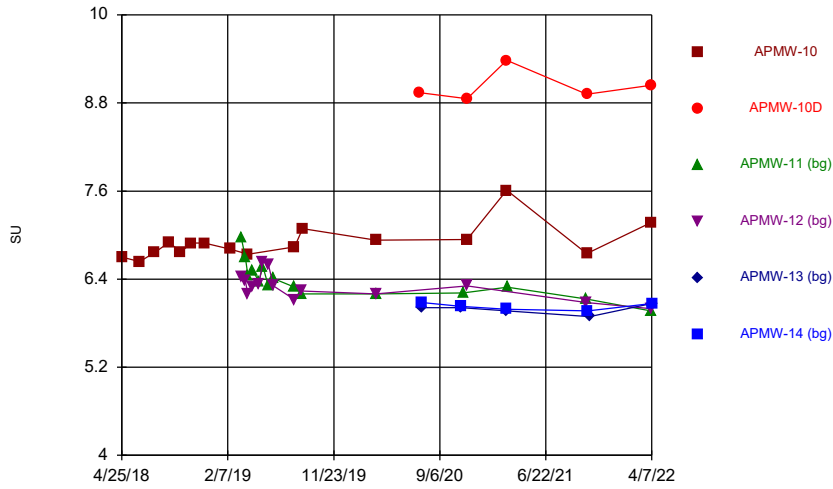
Constituent: Molybdenum Analysis Run 5/13/2022 1:05 PM View: Time Series
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



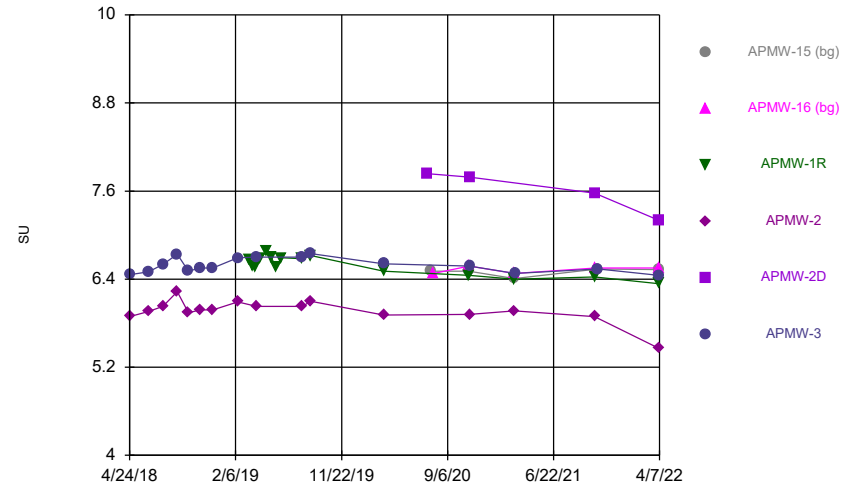
Constituent: Molybdenum Analysis Run 5/13/2022 1:05 PM View: Time Series
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



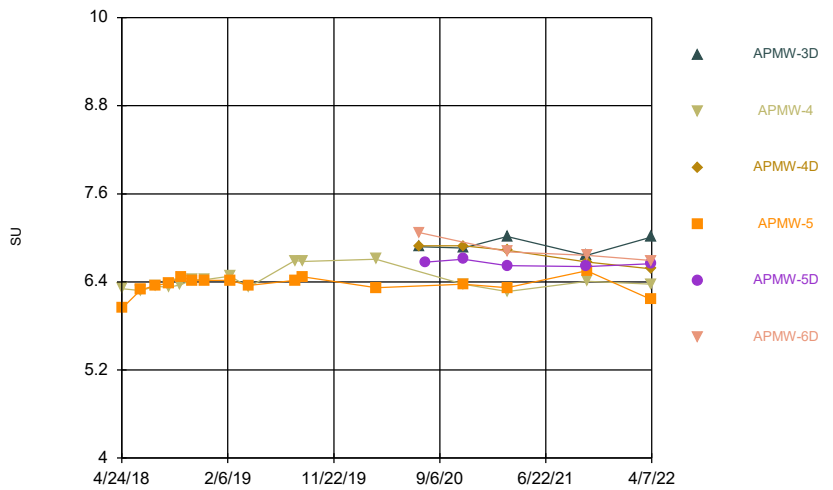
Constituent: pH Analysis Run 5/13/2022 1:05 PM View: Time Series
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



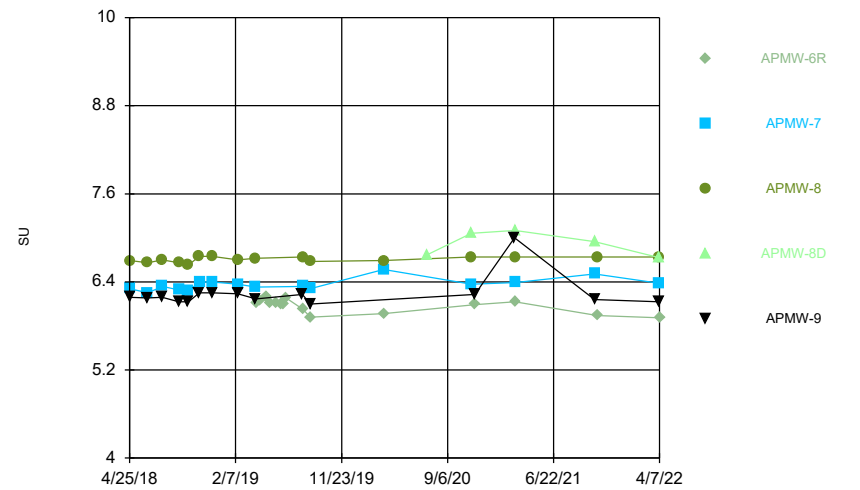
Constituent: pH Analysis Run 5/13/2022 1:05 PM View: Time Series
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



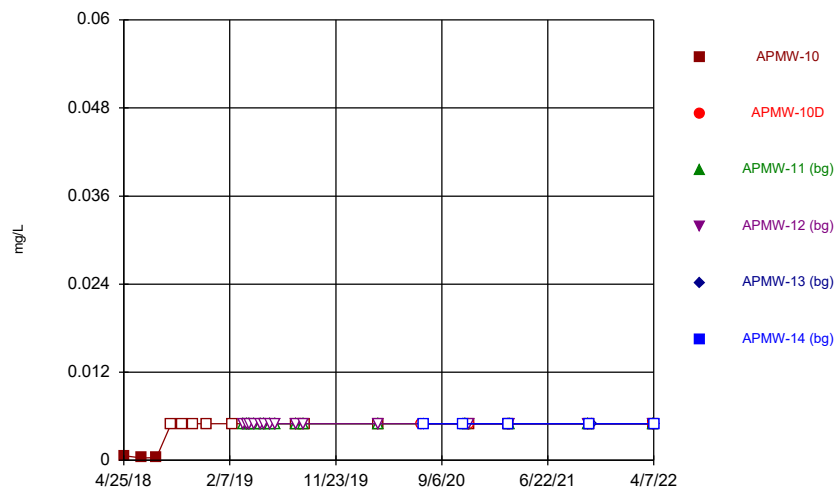
Constituent: pH Analysis Run 5/13/2022 1:05 PM View: Time Series
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



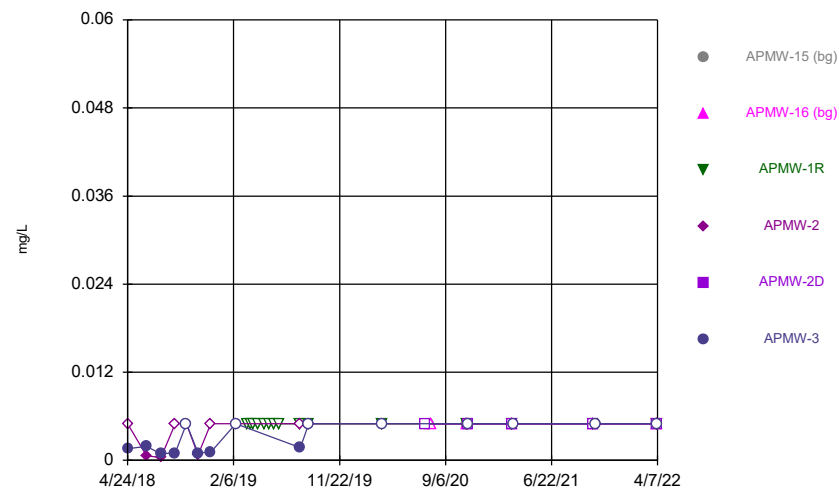
Constituent: pH Analysis Run 5/13/2022 1:05 PM View: Time Series
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



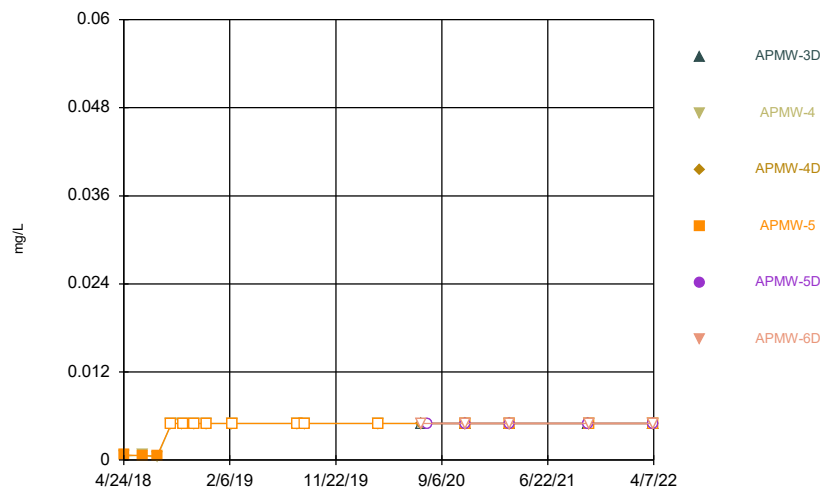
Constituent: Selenium Analysis Run 5/13/2022 1:05 PM View: Time Series
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



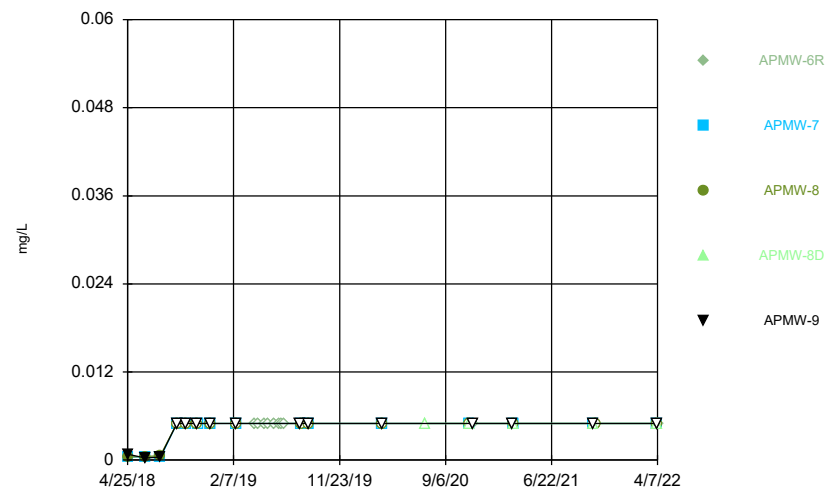
Constituent: Selenium Analysis Run 5/13/2022 1:05 PM View: Time Series
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



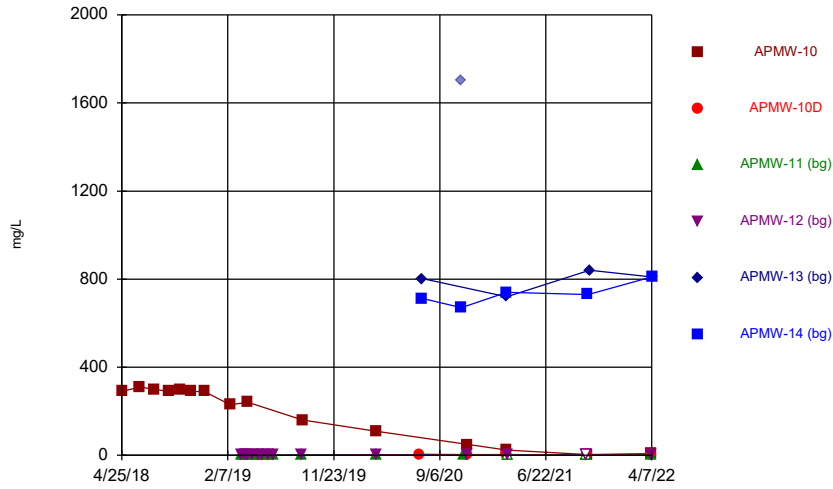
Constituent: Selenium Analysis Run 5/13/2022 1:05 PM View: Time Series
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



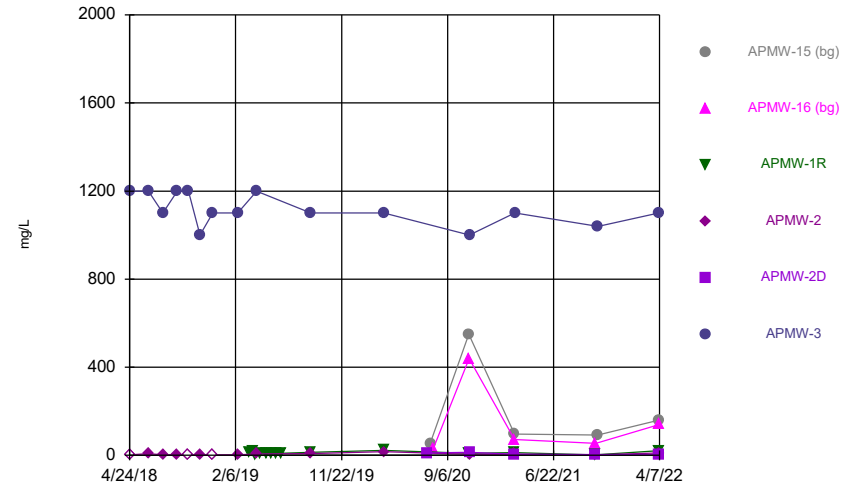
Constituent: Selenium Analysis Run 5/13/2022 1:05 PM View: Time Series
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



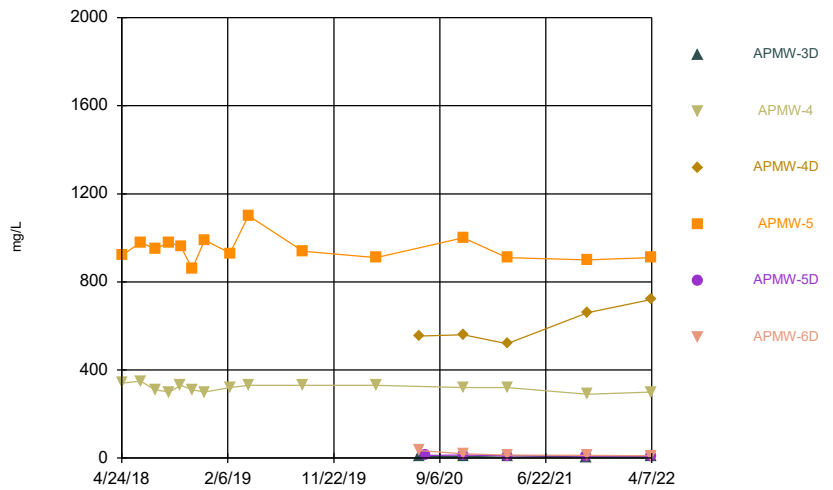
Constituent: Sulfate Analysis Run 5/13/2022 1:05 PM View: Time Series
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



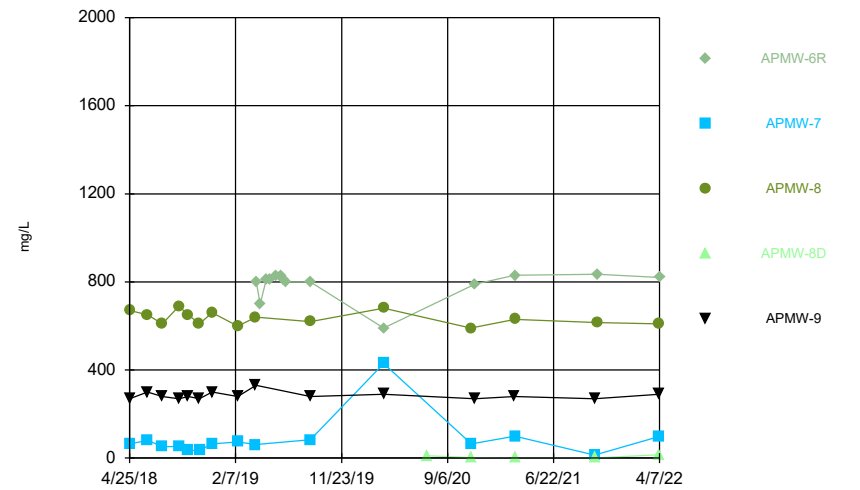
Constituent: Sulfate Analysis Run 5/13/2022 1:05 PM View: Time Series
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



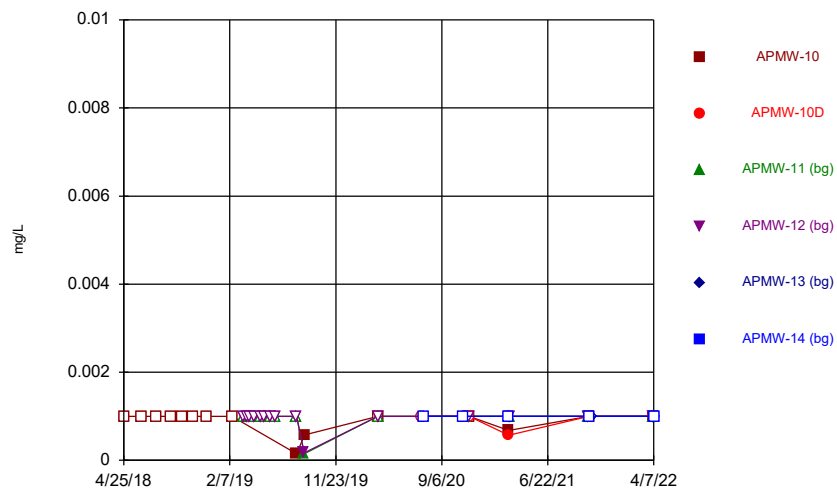
Constituent: Sulfate Analysis Run 5/13/2022 1:05 PM View: Time Series
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



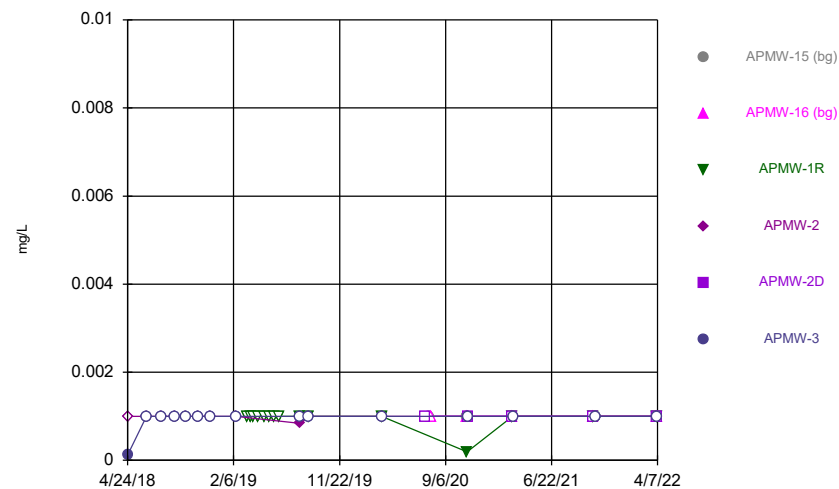
Constituent: Sulfate Analysis Run 5/13/2022 1:05 PM View: Time Series
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



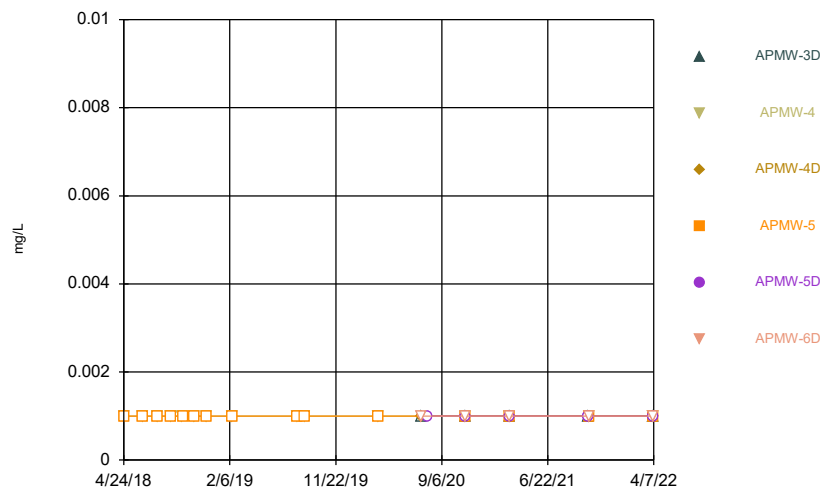
Constituent: Thallium Analysis Run 5/13/2022 1:05 PM View: Time Series
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



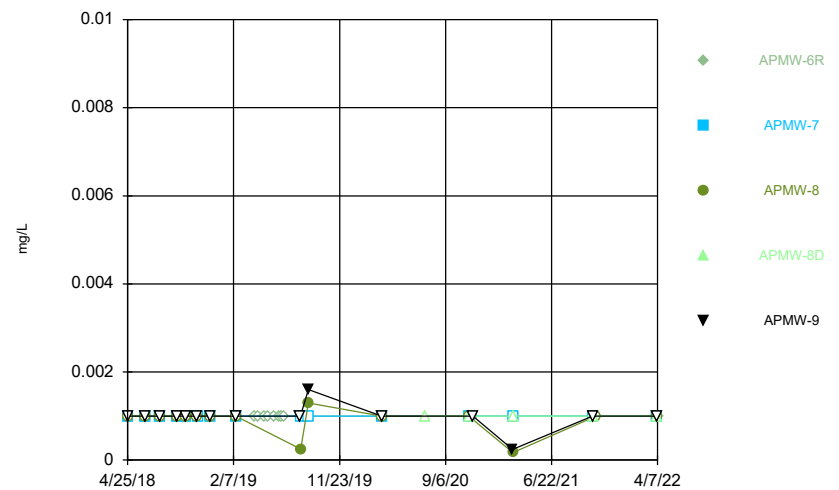
Constituent: Thallium Analysis Run 5/13/2022 1:05 PM View: Time Series
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



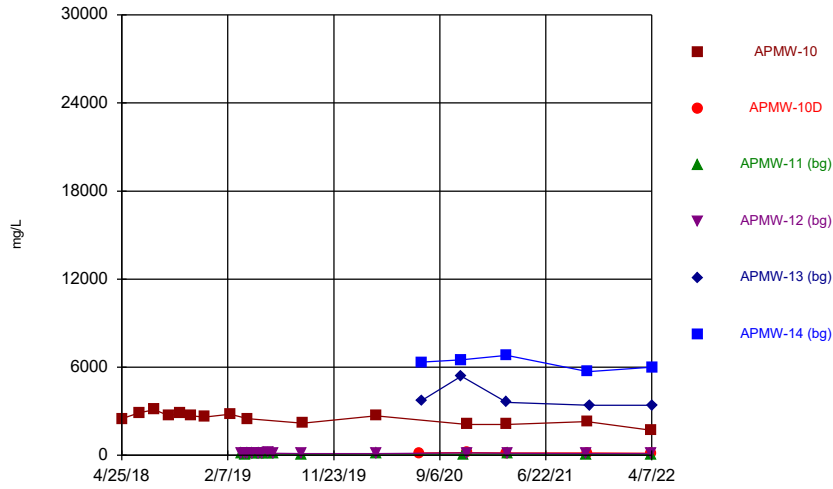
Constituent: Thallium Analysis Run 5/13/2022 1:05 PM View: Time Series
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



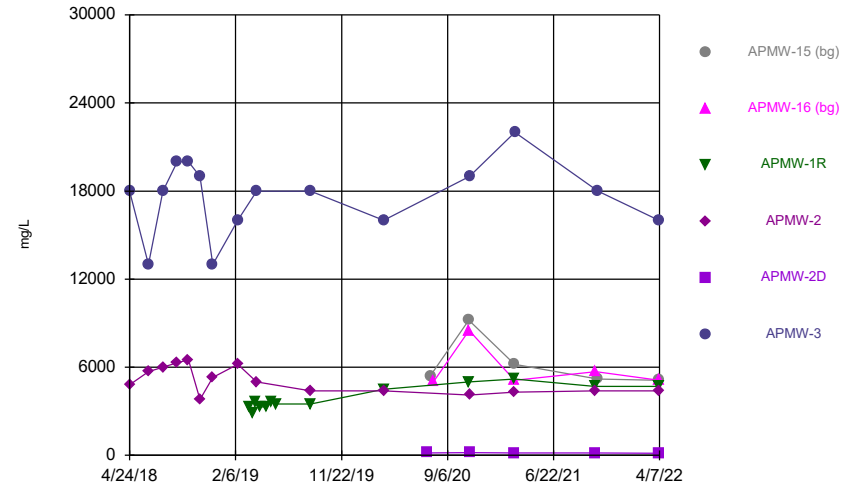
Constituent: Thallium Analysis Run 5/13/2022 1:05 PM View: Time Series
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



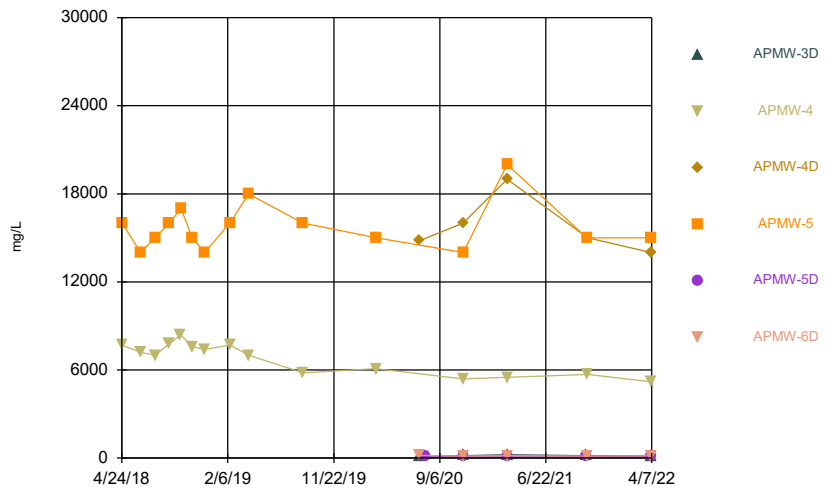
Constituent: Total Dissolved Solids Analysis Run 5/13/2022 1:05 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



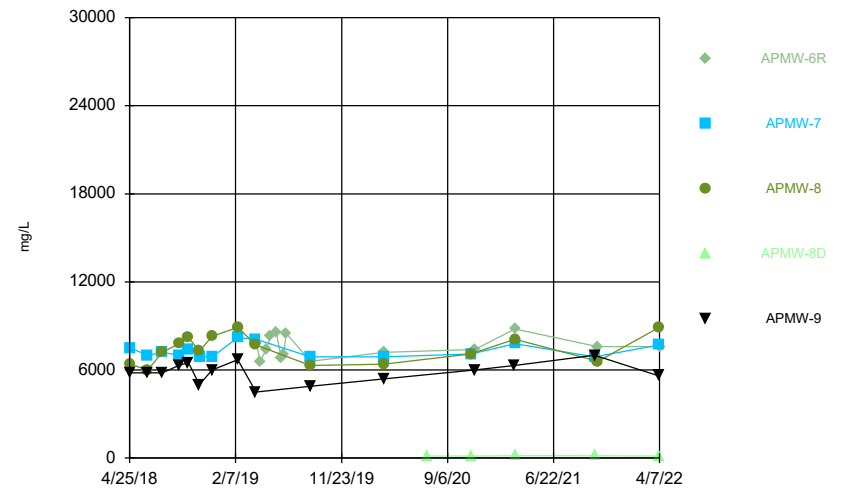
Constituent: Total Dissolved Solids Analysis Run 5/13/2022 1:05 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



Constituent: Total Dissolved Solids Analysis Run 5/13/2022 1:05 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



Constituent: Total Dissolved Solids Analysis Run 5/13/2022 1:05 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	<0.002					
6/13/2018	<0.002					
7/23/2018	<0.002					
9/1/2018	<0.002					
10/2/2018	<0.002					
11/1/2018	<0.002					
12/6/2018	<0.002					
2/13/2019	<0.002					
3/16/2019			<0.002	<0.002		
3/27/2019			<0.002 (D)	<0.002 (D)		
4/3/2019			<0.002 (D)	<0.002 (D)		
4/16/2019			<0.002	<0.002		
5/3/2019			<0.002	<0.002		
5/14/2019			<0.002	<0.002		
5/29/2019			<0.002	<0.002		
6/12/2019			<0.002	<0.002		
8/8/2019	<0.002		<0.002	<0.002		
8/29/2019			<0.002	<0.002		
8/30/2019	<0.002					
3/17/2020	<0.002		<0.002	<0.002		
7/13/2020		<0.002				
7/21/2020					<0.002	<0.002
11/4/2020					<0.002	<0.002
11/9/2020			<0.002			
11/20/2020	<0.002	<0.002		<0.002		
3/8/2021	<0.002	<0.002			<0.002	<0.002
3/10/2021			<0.002	<0.002		
10/11/2021			<0.002	<0.002		
10/12/2021	<0.002	<0.002				
10/15/2021						<0.002
10/20/2021					<0.002	
4/4/2022			<0.002	<0.002		
4/5/2022	<0.002	<0.002				
4/7/2022					<0.002	<0.002

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				<0.002		<0.002
6/14/2018				<0.002		<0.002
7/24/2018				<0.002		<0.002
9/1/2018				<0.002		<0.002
10/1/2018				<0.002		<0.002
11/2/2018				<0.002		<0.002
12/7/2018				<0.002		<0.002
2/13/2019				<0.002		<0.002
3/16/2019			<0.002			
3/27/2019			<0.002			
4/3/2019			<0.002			
4/15/2019			<0.002			
5/2/2019			<0.002			
5/14/2019			<0.002			
5/28/2019			<0.002			
6/12/2019			<0.002			
8/8/2019			<0.002	0.0014 (J)		<0.002
8/30/2019			<0.002	<0.002		<0.002
3/16/2020			<0.002	<0.002		<0.002
7/11/2020					<0.002	
7/21/2020	<0.002					
7/30/2020		<0.002				
11/3/2020	<0.002					
11/4/2020		<0.002	<0.002			
11/5/2020				<0.002	<0.002	<0.002
3/8/2021	<0.002	<0.002	<0.002	<0.002	<0.002	
3/9/2021						<0.002
10/12/2021			<0.002	<0.002	<0.002	
10/15/2021		<0.002				
10/20/2021	<0.002					
10/21/2021						<0.002
4/4/2022			<0.002			
4/5/2022				<0.002	<0.002	<0.002
4/7/2022	<0.002	<0.002				

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		<0.002				
4/25/2018				<0.002		
6/14/2018		<0.002		<0.002		
7/24/2018		<0.002		<0.002		
9/1/2018		<0.002		<0.002		
10/1/2018		<0.002				
10/2/2018				<0.002		
11/2/2018		<0.002		<0.002		
12/6/2018		<0.002		<0.002		
2/13/2019		<0.002		<0.002		
8/9/2019		<0.002		<0.002		
8/30/2019		<0.002		<0.002		
3/16/2020		<0.002				
3/17/2020				<0.002		
7/13/2020	<0.002					
7/14/2020			<0.002			<0.002
7/30/2020					<0.002	
11/9/2020	<0.002	<0.002	<0.002	<0.002	<0.002	
11/10/2020						<0.002
3/9/2021	<0.002	<0.002	<0.002	<0.002	<0.002	
3/10/2021						<0.002
10/11/2021	<0.002				<0.002	
10/12/2021				<0.002		
10/14/2021		<0.002	<0.002			<0.002
4/5/2022	<0.002		<0.002			
4/6/2022		<0.002		<0.002	<0.002	
4/7/2022						0.00075 (J)

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		<0.002	<0.002		<0.002
6/13/2018					<0.002
6/14/2018		<0.002	<0.002		
7/23/2018			<0.002		<0.002
7/24/2018		<0.002			
9/6/2018		<0.002	<0.002		<0.002
10/2/2018		<0.002	<0.002		<0.002
11/1/2018			<0.002		<0.002
11/2/2018		<0.002			
12/6/2018		<0.002	<0.002		<0.002
2/13/2019		<0.002	<0.002		<0.002
4/5/2019	<0.002 (D)				
4/15/2019	<0.002				
5/2/2019	<0.002				
5/14/2019	<0.002				
5/29/2019	<0.002				
6/12/2019	<0.002				
6/19/2019	<0.002				
6/25/2019	<0.002				
8/8/2019					<0.002
8/9/2019	<0.002	<0.002	<0.002		
8/30/2019	<0.002	<0.002	<0.002		<0.002
3/17/2020	<0.002	<0.002	<0.002		<0.002
7/13/2020				<0.002	
11/9/2020			<0.002		
11/10/2020		<0.002		<0.002	
11/20/2020	<0.002				<0.002
3/8/2021					<0.002
3/9/2021	<0.002	<0.002	<0.002	<0.002	
10/12/2021		<0.002		<0.002	<0.002
10/20/2021	<0.002				
10/21/2021			<0.002		
4/6/2022		<0.002	0.00066 (J)	<0.002	<0.002
4/7/2022	<0.002				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	0.13					
6/13/2018	0.11					
7/23/2018	0.13					
9/1/2018	0.12					
10/2/2018	0.11					
11/1/2018	0.11					
12/6/2018	0.12					
2/13/2019	0.098					
3/16/2019			0.00062 (J)	0.00084 (J)		
3/27/2019			<0.001 (D)	<0.001 (D)		
4/3/2019			<0.001 (D)	0.0013 (D)		
4/16/2019			<0.001	0.0013		
5/3/2019			<0.001	0.0011 (J)		
5/14/2019			<0.001	0.00061 (J)		
5/29/2019			0.00037 (J)	0.0011		
6/12/2019			0.00056 (J)	0.0013		
8/8/2019	0.11		<0.001	0.001		
8/29/2019			<0.001	0.00041 (J)		
8/30/2019	0.079					
3/17/2020	0.093		<0.001	0.00043 (J)		
7/13/2020		0.0116				
7/21/2020					<0.001	0.00215
11/4/2020					0.00032 (J)	<0.001
11/9/2020			<0.001			
11/20/2020	0.072	0.019		0.00042 (J)		
3/8/2021	0.047	0.01			<0.001	<0.001
3/10/2021			<0.001	0.00039 (J)		
10/11/2021			<0.001	0.00031 (J)		
10/12/2021	0.028	0.011				
10/15/2021						0.00058 (J)
10/20/2021					<0.001	
4/4/2022			<0.001	0.00044 (J)		
4/5/2022	0.039	0.016				
4/7/2022					<0.001	<0.001

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				0.00077 (J)		0.084
6/14/2018				<0.001		0.081
7/24/2018				<0.001		0.093
9/1/2018				<0.001		0.099
10/1/2018				0.00094 (J)		0.077
11/2/2018				0.0012 (J)		0.067
12/7/2018				<0.001		0.063
2/13/2019				<0.001		0.065
3/16/2019			0.0021			
3/27/2019			0.0019			
4/3/2019			0.0019			
4/15/2019			0.0025			
5/2/2019			0.0019			
5/14/2019			0.0027			
5/28/2019			<0.001			
6/12/2019			0.0023			
8/8/2019			0.0012	0.00035 (J)		0.074
8/30/2019			0.0011	<0.001		0.07
3/16/2020			0.00085 (J)	<0.001		0.071
7/11/2020					0.00374	
7/21/2020	0.00277					
7/30/2020		0.00496				
11/3/2020	0.0013					
11/4/2020		0.0036	0.00069 (J)			
11/5/2020				<0.001	0.0033	0.064
3/8/2021	0.00073 (J)	0.00072 (J)	0.0005 (J)	<0.001	0.0032	
3/9/2021						0.042
10/12/2021			<0.001	<0.001	0.0027	
10/15/2021		0.0007 (J)				
10/20/2021	0.00079 (JD)					
10/21/2021						0.0445 (D)
4/4/2022			0.0004 (J)			
4/5/2022				<0.001	0.0029	0.047
4/7/2022	0.00063 (J)	0.00078 (J)				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		0.019				
4/25/2018				0.24		
6/14/2018		0.018		0.22		
7/24/2018		0.018		0.23		
9/1/2018		0.017		0.22		
10/1/2018		0.017				
10/2/2018				0.21		
11/2/2018		0.018		0.26		
12/6/2018		0.018		0.23		
2/13/2019		0.019		0.23		
8/9/2019		0.018		0.24		
8/30/2019		0.016		0.2		
3/16/2020		0.017				
3/17/2020				0.21		
7/13/2020	0.002					
7/14/2020			0.00773			0.00412
7/30/2020					0.00958	
11/9/2020	0.0033	0.018	0.0043	0.26	0.012	
11/10/2020						0.0041
3/9/2021	0.0035	0.016	0.0059	0.21	0.013	
3/10/2021						0.0045
10/11/2021	0.0037				0.013	
10/12/2021				0.21		
10/14/2021		0.012	0.0046			0.0055
4/5/2022	0.0028		0.0044			
4/6/2022		0.011		0.21	0.016	
4/7/2022						0.0052

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		0.0021	0.097		0.0016
6/13/2018					0.001 (J)
6/14/2018		0.0015	0.089		
7/23/2018			0.094		0.0011 (J)
7/24/2018		0.0015			
9/6/2018		0.0013	0.082		0.0011 (J)
10/2/2018		0.0014	0.075		0.0015
11/1/2018			0.081		0.0014
11/2/2018		0.0028			
12/6/2018		0.0033	0.079		0.0016
2/13/2019		0.0012 (J)	0.077		0.0013
4/5/2019	0.13 (D)				
4/15/2019	0.13				
5/2/2019	0.089				
5/14/2019	0.13				
5/29/2019	0.12				
6/12/2019	0.13				
6/19/2019	0.16				
6/25/2019	0.13				
8/8/2019					0.0012
8/9/2019	0.16	0.00053 (J)	0.052		
8/30/2019	0.17	0.00044 (J)	0.05		0.0011
3/17/2020	0.18	0.00053 (J)	0.043		0.001
7/13/2020				0.000995 (J)	
11/9/2020			0.036		
11/10/2020		0.00058 (J)		0.0034	
11/20/2020	0.18				0.0012
3/8/2021					0.0015
3/9/2021	0.21	0.00045 (J)	0.035	0.0045	
10/12/2021		0.00044 (J)		0.0044	0.0013
10/20/2021	0.2 (D)				
10/21/2021			0.026 (D)		
4/6/2022		0.00048 (J)	0.023	0.0028	0.0013
4/7/2022	0.21				

Time Series

Constituent: Barium (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	0.26					
6/13/2018	0.3					
7/23/2018	0.24					
9/1/2018	0.25					
10/2/2018	0.23					
11/1/2018	0.23					
12/6/2018	0.24					
2/13/2019	0.26					
3/16/2019			0.09	0.069		
3/27/2019			0.095 (D)	0.079 (D)		
4/3/2019			0.085 (D)	0.075 (D)		
4/16/2019			0.081	0.072		
5/3/2019			0.074	0.076		
5/14/2019			0.083	0.076		
5/29/2019			0.04	0.091		
6/12/2019			0.066	0.083		
8/8/2019	0.24		0.053	0.065		
8/29/2019			0.043	0.071		
8/30/2019	0.2					
3/17/2020	0.25		0.037	0.07		
7/13/2020		0.0358				
7/21/2020					0.212	0.243
11/4/2020					0.11	0.22
11/9/2020			0.038			
11/20/2020	0.27	0.032		0.065		
3/8/2021	0.32	0.026			0.24	0.21
3/10/2021			0.038	0.06		
10/11/2021			0.037	0.06		
10/12/2021	0.34	0.027				
10/15/2021						0.22
10/20/2021					0.25	
4/4/2022			0.037	0.062		
4/5/2022	0.37	0.027				
4/7/2022					0.24	0.23

Time Series

Constituent: Barium (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				2.8		0.097
6/14/2018				3.1		0.11
7/24/2018				3		0.1
9/1/2018				2.9		0.12
10/1/2018				4		0.1
11/2/2018				3.1		0.1
12/7/2018				3.3		0.11
2/13/2019				2.9		0.1
3/16/2019			0.89			
3/27/2019			1.1			
4/3/2019			1.1			
4/15/2019			0.98			
5/2/2019			0.94			
5/14/2019			1			
5/28/2019			1			
6/12/2019			0.91			
8/8/2019			0.93	3.2		0.1
8/30/2019			0.91	2.7		0.1
3/16/2020			1.2	3.2		0.1
7/11/2020					0.0418	
7/21/2020	0.059					
7/30/2020		0.0659				
11/3/2020	0.054					
11/4/2020		0.076	1.4			
11/5/2020				3.2	0.038	0.1
3/8/2021	0.048	0.063	1.3	3.3	0.037	
3/9/2021						0.1
10/12/2021			1.5	3.3	0.04	
10/15/2021		0.067				
10/20/2021	0.049					
10/21/2021						0.095
4/4/2022			1.6			
4/5/2022				3.6	0.049	0.098
4/7/2022	0.048	0.067				

Time Series

Constituent: Barium (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		0.46				
4/25/2018				0.093		
6/14/2018		0.5		0.11		
7/24/2018		0.54		0.093		
9/1/2018		0.53		0.1		
10/1/2018		0.5				
10/2/2018				0.1		
11/2/2018		0.5		0.12		
12/6/2018		0.43		0.1		
2/13/2019		0.45		0.1		
8/9/2019		0.33		0.11		
8/30/2019		0.29		0.086		
3/16/2020		0.27				
3/17/2020				0.1		
7/13/2020	0.135					
7/14/2020			0.342			0.107
7/30/2020					0.0659	
11/9/2020	0.14	0.23	0.24	0.1	0.069	
11/10/2020						0.077
3/9/2021	0.16	0.22	0.21	0.1	0.059	
3/10/2021						0.087
10/11/2021	0.18				0.052	
10/12/2021				0.1		
10/14/2021		0.21	0.13			0.1
4/5/2022	0.18		0.097			
4/6/2022		0.17		0.11	0.053	
4/7/2022						0.13

Time Series

Constituent: Barium (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		0.66	0.2		0.42
6/13/2018					0.45
6/14/2018		0.74	0.22		
7/23/2018			0.2		0.42
7/24/2018		0.72			
9/6/2018		0.79	0.22		0.45
10/2/2018		0.93	0.21		0.43
11/1/2018			0.21		0.43
11/2/2018		1.1			
12/6/2018		0.7	0.22		0.44
2/13/2019		0.59	0.23		0.44
4/5/2019	0.071 (D)				
4/15/2019	0.067				
5/2/2019	0.071				
5/14/2019	0.068				
5/29/2019	0.067 (J)				
6/12/2019	0.064 (J)				
6/19/2019	0.059 (J)				
6/25/2019	0.057 (J)				
8/8/2019					0.42
8/9/2019	0.058	0.76	0.2		
8/30/2019	0.052	0.56	0.2		0.42
3/17/2020	0.05	0.53	0.21		0.49
7/13/2020				0.192	
11/9/2020			0.23		
11/10/2020		0.77		0.12	
11/20/2020	0.048				0.48
3/8/2021					0.47
3/9/2021	0.055	0.53	0.22	0.15	
10/12/2021		0.97		0.14	0.49
10/20/2021	0.048				
10/21/2021			0.23		
4/6/2022		0.61	0.24	0.12	0.52
4/7/2022	0.043 (J)				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	<0.0025					
6/13/2018	<0.0025					
7/23/2018	<0.0025					
9/1/2018	<0.0025					
10/2/2018	<0.0025					
11/1/2018	<0.0025					
12/6/2018	<0.0025					
2/13/2019	<0.0025					
3/16/2019			<0.0025	<0.0025		
3/27/2019			<0.0025 (D)	<0.0025 (D)		
4/3/2019			<0.0025 (D)	<0.0025 (D)		
4/16/2019			<0.0025	<0.0025		
5/3/2019			<0.0025	<0.0025		
5/14/2019			<0.0025	<0.0025		
5/29/2019			0.00019 (J)	<0.0025		
6/12/2019			<0.0025	<0.0025		
8/8/2019	<0.0025		<0.0025	<0.0025		
8/29/2019			0.0002 (J)	0.00023 (J)		
8/30/2019	0.00043 (J)					
3/17/2020	<0.0025		<0.0025	<0.0025		
7/13/2020		<0.0025				
7/21/2020				<0.0025	<0.0025	
11/4/2020				<0.0025	<0.0025	
11/9/2020			<0.0025			
11/20/2020	<0.0025	<0.0025		<0.0025		
3/8/2021	0.00076 (J)	0.00057 (J)			<0.0025	<0.0025
3/10/2021			<0.0025	<0.0025		
10/11/2021			<0.0025	<0.0025		
10/12/2021	<0.0025	<0.0025				
10/15/2021						<0.0025
10/20/2021					<0.0025	
4/4/2022			<0.0025	<0.0025		
4/5/2022	<0.0025	<0.0025				
4/7/2022					<0.0025	<0.0025

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				<0.0025		<0.0025
6/14/2018				<0.0025		<0.0025
7/24/2018				<0.0025		<0.0025
9/1/2018				<0.0025		<0.0025
10/1/2018				<0.0025		<0.0025
11/2/2018				<0.0025		<0.0025
12/7/2018				<0.0025		<0.0025
2/13/2019				<0.0025		<0.0025
3/16/2019			<0.0025			
3/27/2019			<0.0025			
4/3/2019			<0.0025			
4/15/2019			<0.0025			
5/2/2019			<0.0025			
5/14/2019			<0.0025			
5/28/2019			<0.0025			
6/12/2019			<0.0025			
8/8/2019			<0.0025	0.00061 (J)		<0.0025
8/30/2019			0.00019 (J)	0.00023 (J)		0.00018 (J)
3/16/2020			<0.0025	<0.0025		<0.0025
7/11/2020					<0.0025	
7/21/2020	<0.0025					
7/30/2020		<0.0025				
11/3/2020	<0.0025					
11/4/2020		<0.0025	<0.0025			
11/5/2020				<0.0025	<0.0025	<0.0025
3/8/2021	<0.0025	<0.0025	<0.0025	0.00018 (J)	<0.0025	
3/9/2021						<0.0025
10/12/2021			<0.0025	<0.0025	<0.0025	
10/15/2021		<0.0025				
10/20/2021	<0.0025					
10/21/2021						<0.0025
4/4/2022			<0.0025			
4/5/2022				<0.0025	<0.0025	<0.0025
4/7/2022	<0.0025	<0.0025				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		<0.0025				
4/25/2018				<0.0025		
6/14/2018		<0.0025		<0.0025		
7/24/2018		<0.0025		<0.0025		
9/1/2018		<0.0025		<0.0025		
10/1/2018		<0.0025				
10/2/2018				<0.0025		
11/2/2018		<0.0025		<0.0025		
12/6/2018		<0.0025		<0.0025		
2/13/2019		<0.0025		<0.0025		
8/9/2019		<0.0025		<0.0025		
8/30/2019		<0.0025		<0.0025		
3/16/2020		<0.0025				
3/17/2020				<0.0025		
7/13/2020	<0.0025					
7/14/2020			<0.0025			<0.0025
7/30/2020					<0.0025	
11/9/2020	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
11/10/2020						<0.0025
3/9/2021	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
3/10/2021						<0.0025
10/11/2021	<0.0025				<0.0025	
10/12/2021				<0.0025		
10/14/2021		<0.0025	<0.0025			<0.0025
4/5/2022	<0.0025		<0.0025			
4/6/2022		<0.0025		<0.0025	<0.0025	
4/7/2022						<0.0025

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		<0.0025	<0.0025		<0.0025
6/13/2018					<0.0025
6/14/2018		<0.0025	<0.0025		
7/23/2018			<0.0025		<0.0025
7/24/2018		<0.0025			
9/6/2018		<0.0025	<0.0025		<0.0025
10/2/2018		<0.0025	<0.0025		<0.0025
11/1/2018			<0.0025		<0.0025
11/2/2018		<0.0025			
12/6/2018		<0.0025	<0.0025		<0.0025
2/13/2019		<0.0025	<0.0025		<0.0025
4/5/2019	<0.0025 (D)				
4/15/2019	<0.0025				
5/2/2019	<0.0025				
5/14/2019	<0.0025				
5/29/2019	<0.0025				
6/12/2019	<0.0025				
6/19/2019	<0.0025				
6/25/2019	<0.0025				
8/8/2019					<0.0025
8/9/2019	<0.0025	<0.0025	<0.0025		
8/30/2019	0.00036 (J)	0.00025 (J)	0.00038 (J)		0.00049 (J)
3/17/2020	<0.0025	<0.0025	<0.0025		<0.0025
7/13/2020				<0.0025	
11/9/2020			<0.0025		
11/10/2020		<0.0025		<0.0025	
11/20/2020	<0.0025				<0.0025
3/8/2021					0.00024 (J)
3/9/2021	<0.0025	<0.0025	<0.0025	<0.0025	
10/12/2021		<0.0025		<0.0025	<0.0025
10/20/2021	<0.0025				
10/21/2021			<0.0025		
4/6/2022		<0.0025	<0.0025	<0.0025	<0.0025
4/7/2022	<0.0025				

Time Series

Constituent: Boron (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	1.7					
6/13/2018	1.7					
7/23/2018	2					
9/1/2018	1.9					
10/2/2018	1.8					
11/1/2018	1.8					
12/6/2018	1.9					
2/13/2019	2.4					
3/16/2019			0.028 (J)	0.035 (J)		
3/27/2019			0.027 (JD)	0.033 (JD)		
4/3/2019			0.089 (D)	0.023 (JD)		
4/4/2019	1.8					
4/16/2019			<0.08	<0.08		
5/3/2019			<0.08	0.021 (J)		
5/14/2019			<0.08	<0.08		
5/29/2019			0.034 (J)	0.044 (J)		
6/12/2019			0.05 (J)	0.047 (J)		
8/29/2019			<0.08	<0.08		
8/30/2019	1.9					
3/17/2020	1.9		0.057 (J)	0.057 (J)		
7/13/2020		0.105				
7/21/2020					0.58	0.718
11/4/2020					0.88	0.85
11/9/2020			<0.08			
11/20/2020	1.8	0.22		0.098		
3/8/2021	1.8	0.14			0.63	0.71
3/10/2021			<0.08	0.046 (J)		
10/11/2021			0.053 (J)	0.045 (J)		
10/12/2021	1.9	0.14				
10/15/2021						0.78
10/20/2021					0.64	
4/4/2022			0.11	0.082		
4/5/2022	2.1	0.15				
4/7/2022					0.61	0.71

Time Series

Constituent: Boron (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				4.1		5.3
6/14/2018				4		5.1
7/24/2018				4.3		5.5
9/1/2018				4		4.9
10/1/2018				4		5
11/2/2018				3.5		4.6
12/7/2018				3.9		4.8
2/13/2019				4.4		6
3/16/2019			4.5			
3/27/2019			5.2			
4/3/2019			5.3			
4/5/2019				3.6		4.5
4/15/2019			5.9			
5/2/2019			5.3			
5/14/2019			5.5			
5/28/2019			5.7			
6/12/2019			4.4			
8/30/2019			6.2	3.7		5
3/16/2020			7.2	3.7		5.3
7/11/2020					0.0771	
7/21/2020	0.609					
7/30/2020		0.62				
11/3/2020	1.2					
11/4/2020		1.2	6.8			
11/5/2020				3.6	0.12	5.1
3/8/2021	0.59	0.6	7.3	3.5	0.094	
3/9/2021						5.5
10/12/2021			7.2	3.8	0.37	
10/15/2021		0.77				
10/20/2021	0.65					
10/21/2021						5.1
4/4/2022			6.6			
4/5/2022				3.7	0.11	6.3
4/7/2022	0.61	0.58				

Time Series

Constituent: Boron (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		1.9				
4/25/2018				6.9		
6/14/2018		1.9		6.8		
7/24/2018		1.9		6.9		
9/1/2018		1.7		6.2		
10/1/2018		1.7				
10/2/2018				6.5		
11/2/2018		1.7		5.5		
12/6/2018		1.7		5.7		
2/13/2019		1.7		7.6		
4/4/2019				5.8		
4/5/2019		1.6				
8/30/2019		1.6		6.1		
3/16/2020		1.6				
3/17/2020				6.6		
7/13/2020	0.0613					
7/14/2020			3.55			0.0574
7/30/2020					0.0792	
11/9/2020	0.072 (J)	1.3	3.6	5.8	0.062 (J)	
11/10/2020						0.068 (J)
3/9/2021	0.099	1.2	3.3	6.1	0.083	
3/10/2021						0.076 (J)
10/11/2021	0.073 (J)				0.11	
10/12/2021				6.1		
10/14/2021		1.2	3.5			0.077
4/5/2022	0.091		4			
4/6/2022		1.1		5.8	0.086	
4/7/2022						0.089

Time Series

Constituent: Boron (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		1	23		6.8
6/13/2018					6.6
6/14/2018		0.91	21		
7/23/2018			22		6.8
7/24/2018		1			
9/6/2018		1.1	21		6.5
10/2/2018		0.95	21		6.5
11/1/2018			19		5.6
11/2/2018		0.82			
12/6/2018		1.1	20		6.4
2/13/2019		0.95	27		8.4
4/4/2019		0.98	20		6.1
4/5/2019	8.9 (D)				
4/15/2019	10				
5/2/2019	10				
5/14/2019	9.3				
5/29/2019	9.5				
6/12/2019	11				
6/19/2019	9.5				
6/25/2019	11				
8/30/2019	11	0.88	19		7.1
3/17/2020	11	0.98	20		7.1
7/13/2020				0.042 (J)	
11/9/2020			21		
11/10/2020		0.94		0.076 (J)	
11/20/2020	9.5				6.5
3/8/2021					6.5
3/9/2021	12	0.91	21	0.095	
10/12/2021		1.2		0.077 (J)	6.7
10/20/2021	11				
10/21/2021			22		
4/6/2022		1.4	19	0.066 (J)	5.9
4/7/2022	10				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	<0.0025					
6/13/2018	<0.0025					
7/23/2018	<0.0025					
9/1/2018	<0.0025					
10/2/2018	<0.0025					
11/1/2018	<0.0025					
12/6/2018	<0.0025					
2/13/2019	<0.0025					
3/16/2019			<0.0025	<0.0025		
3/27/2019			<0.0025 (D)	<0.0025 (D)		
4/3/2019			<0.0025 (D)	<0.0025 (D)		
4/16/2019			<0.0025	<0.0025		
5/3/2019			<0.0025	<0.0025		
5/14/2019			<0.0025	<0.0025		
5/29/2019			<0.0025	<0.0025		
6/12/2019			<0.0025	<0.0025		
8/8/2019	<0.0025		<0.0025	<0.0025		
8/29/2019			<0.0025	<0.0025		
8/30/2019	<0.0025					
3/17/2020	<0.0025		<0.0025	<0.0025		
7/13/2020		<0.0025				
7/21/2020					<0.0025	<0.0025
11/4/2020					<0.0025	<0.0025
11/9/2020			<0.0025			
11/20/2020	<0.0025	<0.0025		<0.0025		
3/8/2021	0.00025 (J)	0.00025 (J)			<0.0025	<0.0025
3/10/2021			<0.0025	<0.0025		
10/11/2021			<0.0025	<0.0025		
10/12/2021	<0.0025	<0.0025				
10/15/2021						<0.0025
10/20/2021					<0.0025	
4/4/2022			<0.0025	<0.0025		
4/5/2022	<0.0025	<0.0025				
4/7/2022					<0.0025	<0.0025

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				<0.0025		<0.0025
6/14/2018				<0.0025		<0.0025
7/24/2018				<0.0025		<0.0025
9/1/2018				<0.0025		<0.0025
10/1/2018				<0.0025		<0.0025
11/2/2018				<0.0025		<0.0025
12/7/2018				<0.0025		<0.0025
2/13/2019				<0.0025		<0.0025
3/16/2019			<0.0025			
3/27/2019			<0.0025			
4/3/2019			<0.0025			
4/15/2019			0.00045 (J)			
5/2/2019			<0.0025			
5/14/2019			<0.0025			
5/28/2019			<0.0025			
6/12/2019			<0.0025			
8/8/2019			<0.0025	<0.0025		<0.0025
8/30/2019			<0.0025	<0.0025		<0.0025
3/16/2020			<0.0025	<0.0025		<0.0025
7/11/2020					<0.0025	
7/21/2020	<0.0025					
7/30/2020		0.000355 (J)				
11/3/2020	<0.0025					
11/4/2020		<0.0025	<0.0025			
11/5/2020				<0.0025	<0.0025	<0.0025
3/8/2021	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
3/9/2021						<0.0025
10/12/2021			<0.0025	<0.0025	<0.0025	
10/15/2021		<0.0025				
10/20/2021	<0.0025					
10/21/2021						<0.0025
4/4/2022			<0.0025			
4/5/2022				<0.0025	<0.0025	<0.0025
4/7/2022	<0.0025	<0.0025				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		<0.0025				
4/25/2018				<0.0025		
6/14/2018		<0.0025		<0.0025		
7/24/2018		<0.0025		<0.0025		
9/1/2018		<0.0025		<0.0025		
10/1/2018		<0.0025				
10/2/2018				<0.0025		
11/2/2018		<0.0025		<0.0025		
12/6/2018		<0.0025		<0.0025		
2/13/2019		<0.0025		<0.0025		
8/9/2019		<0.0025		<0.0025		
8/30/2019		<0.0025		<0.0025		
3/16/2020		<0.0025				
3/17/2020				<0.0025		
7/13/2020	<0.0025					
7/14/2020			<0.0025			<0.0025
7/30/2020					<0.0025	
11/9/2020	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
11/10/2020						<0.0025
3/9/2021	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
3/10/2021						<0.0025
10/11/2021	<0.0025				<0.0025	
10/12/2021				<0.0025		
10/14/2021		<0.0025	<0.0025			<0.0025
4/5/2022	<0.0025		<0.0025			
4/6/2022		<0.0025		<0.0025	<0.0025	
4/7/2022						<0.0025

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		<0.0025	<0.0025		<0.0025
6/13/2018					<0.0025
6/14/2018		<0.0025	<0.0025		
7/23/2018			<0.0025		<0.0025
7/24/2018		<0.0025			
9/6/2018		<0.0025	<0.0025		<0.0025
10/2/2018		<0.0025	<0.0025		<0.0025
11/1/2018			<0.0025		<0.0025
11/2/2018		<0.0025			
12/6/2018		<0.0025	<0.0025		<0.0025
2/13/2019		<0.0025	<0.0025		<0.0025
4/5/2019	<0.0025 (D)				
4/15/2019	<0.0025				
5/2/2019	<0.0025				
5/14/2019	<0.0025				
5/29/2019	<0.0025				
6/12/2019	<0.0025				
6/19/2019	<0.0025				
6/25/2019	<0.0025				
8/8/2019					<0.0025
8/9/2019	0.00014 (J)	<0.0025	<0.0025		
8/30/2019	0.00026 (J)	<0.0025	<0.0025		<0.0025
3/17/2020	<0.0025	<0.0025	<0.0025		<0.0025
7/13/2020				<0.0025	
11/9/2020			<0.0025		
11/10/2020		<0.0025		<0.0025	
11/20/2020	<0.0025				<0.0025
3/8/2021					<0.0025
3/9/2021	<0.0025	<0.0025	<0.0025	<0.0025	
10/12/2021		<0.0025		<0.0025	<0.0025
10/20/2021	<0.0025				
10/21/2021			<0.0025		
4/6/2022		<0.0025	<0.0025	<0.0025	<0.0025
4/7/2022	<0.0025				

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	68					
6/13/2018	79					
7/23/2018	73					
9/1/2018	68					
10/2/2018	71					
11/1/2018	67					
12/6/2018	65					
2/13/2019	64					
3/16/2019			17	13		
3/27/2019			16 (D)	15 (D)		
4/3/2019			15 (D)	13 (D)		
4/4/2019	80					
4/16/2019			13	12		
5/3/2019			12	13		
5/14/2019			14	13		
5/29/2019			7	15		
6/12/2019			13	14		
8/29/2019			9.4	12		
8/30/2019	53					
3/17/2020	59		9.8	12		
7/13/2020		2.62				
7/21/2020					97.7	127
11/4/2020					110	120
11/9/2020			11			
11/20/2020	53	2.9		12		
3/8/2021	47	3.4			92	110
3/10/2021			12	12		
10/11/2021			11	12		
10/12/2021	52	3.6				
10/15/2021						110
10/20/2021					97	
4/4/2022			11	12		
4/5/2022	42	2.5				
4/7/2022					96	110

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				310		320
6/14/2018				360		310
7/24/2018				370		360
9/1/2018				390		320
10/1/2018				380		360
11/2/2018				320		310
12/7/2018				330		320
2/13/2019				320		300
3/16/2019			130			
3/27/2019			140			
4/3/2019			140			
4/5/2019				310		290
4/15/2019			130			
5/2/2019			130			
5/14/2019			140			
5/28/2019			150			
6/12/2019			130			
8/30/2019			160	340		320
3/16/2020			200	350		310
7/11/2020					3.66	
7/21/2020	81.7					
7/30/2020		99.2				
11/3/2020	120					
11/4/2020		130	200			
11/5/2020				350	4.6	370
3/8/2021	69	69	210	350	3.6	
3/9/2021						350
10/12/2021			200	360	4.1	
10/15/2021		75				
10/20/2021	68 (D)					
10/21/2021						350 (D)
4/4/2022			200			
4/5/2022				380	3.3	330
4/7/2022	64	67				

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		190				
4/25/2018				350		
6/14/2018		200		340		
7/24/2018		210		340		
9/1/2018		220		360		
10/1/2018		210				
10/2/2018				310		
11/2/2018		190		310		
12/6/2018		190		330		
2/13/2019		180		310		
4/4/2019				270		
4/5/2019		170				
8/30/2019		170		320		
3/16/2020		170				
3/17/2020				330		
7/13/2020	5.41					
7/14/2020			220			6.42
7/30/2020					1.34	
11/9/2020	10	160	220	330	1.7	
11/10/2020						8.1
3/9/2021	13	160	240	340	1.5	
3/10/2021						5.3
10/11/2021	11				1.3	
10/12/2021				310		
10/14/2021		150	240			6.1
4/5/2022	10		230			
4/6/2022		130		320	1.2	
4/7/2022						10

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		93	560		320
6/13/2018					300
6/14/2018		110	490		
7/23/2018			520		320
7/24/2018		100			
9/6/2018		98	510		310
10/2/2018		93	470		290
11/1/2018			460		280
11/2/2018		110			
12/6/2018		94	490		310
2/13/2019		95	470		300
4/4/2019		98	440		270
4/5/2019	440 (D)				
4/15/2019	390				
5/2/2019	400				
5/14/2019	420				
5/29/2019	450				
6/12/2019	440				
6/19/2019	450				
6/25/2019	450				
8/30/2019	460	90	460		310
3/17/2020	420	110	470		310
7/13/2020				10.5	
11/9/2020			470		
11/10/2020		99		13	
11/20/2020	420				290
3/8/2021					300
3/9/2021	460	120	480	13	
10/12/2021		84		9.4	300
10/20/2021	400 (D)				
10/21/2021			495 (D)		
4/6/2022		110	460	7.7	300
4/7/2022	390				

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	1300					
6/13/2018	1400					
7/23/2018	1200					
9/1/2018	1400					
10/2/2018	1400					
11/1/2018	1300					
12/6/2018	1300					
2/13/2019	1200					
3/16/2019			9.3	14		
3/27/2019			8.2 (D)	15 (D)		
4/3/2019			8.7 (D)	15 (D)		
4/4/2019	1200					
4/16/2019			8.7	14		
5/3/2019			9.3	15		
5/14/2019			8.8	15		
5/29/2019			8.8	14		
6/12/2019			8.8	15		
8/29/2019			8.1	14		
8/30/2019	1200					
3/17/2020	1100		8.2	14		
7/13/2020		4.73				
7/21/2020					1470	2920
11/4/2020					5400	3100
11/9/2020			9.1			
11/20/2020	1000	4.6		16		
3/8/2021	920	4.3			1600	3000
3/10/2021			8.9	15		
10/11/2021			8.9	15		
10/12/2021	860	4.2				
10/15/2021						2800
10/20/2021					3400	
4/4/2022			8.4	14		
4/5/2022	760	4.1				
4/7/2022					1400	2900

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				2800		11000
6/14/2018				2700		11000
7/24/2018				2800		11000
9/1/2018				2800		10000
10/1/2018				2800		11000
11/2/2018				2700		11000
12/7/2018				2700		12000
2/13/2019				2800		9800
3/16/2019			1900			
3/27/2019			1900			
4/3/2019			1900			
4/5/2019				2600		9900
4/15/2019			1900			
5/2/2019			1900			
5/14/2019			2000			
5/28/2019			1900			
6/12/2019			2000			
8/30/2019			2100	2500		9800
3/16/2020			2600	2500		10000
7/11/2020					5.74	
7/21/2020	2910					
7/30/2020		2830				
11/3/2020	4900					
11/4/2020		4700	4700			
11/5/2020				5100	5.4	9600
3/8/2021	2900	2600	2500	2500	5.1	
3/9/2021						10000
10/12/2021			2300	2400	4.6	
10/15/2021		3100				
10/20/2021	4100 (D)					
10/21/2021						9400 (D)
4/4/2022			2500			
4/5/2022				2600	4.9	9300
4/7/2022	3000	3100				

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		4000				
4/25/2018				8500		
6/14/2018		4000		8700		
7/24/2018		3900		8700		
9/1/2018		4200		8900		
10/1/2018		4200				
10/2/2018				9300		
11/2/2018		4000		8900		
12/6/2018		4000		9000		
2/13/2019		3800		8600		
4/4/2019				8600		
4/5/2019		3900				
8/30/2019		3600		8700		
3/16/2020		3400				
3/17/2020				8900		
7/13/2020	6.04					
7/14/2020			9830			10.5
7/30/2020					10.2	
11/9/2020	<1	3200	9300	9400	9.4	
11/10/2020						10
3/9/2021	49	3100	9100	8700	8.5	
3/10/2021						8.6
10/11/2021	17				7.5	
10/12/2021				8300		
10/14/2021		2900	8400			10
4/5/2022	15		8200			
4/6/2022		2800		8400	8.2	
4/7/2022						19

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		3900	3400		2800
6/13/2018					3100
6/14/2018		4100	3600		
7/23/2018			3500		3000
7/24/2018		3900			
9/6/2018		4000	3600		3000
10/2/2018		4000	3800		3100
11/1/2018			3600		3000
11/2/2018		3800			
12/6/2018		4300	3700		3100
2/13/2019		4200	3500		3000
4/4/2019		3700	3500		3100
4/5/2019	4000 (D)				
4/15/2019	3400				
5/2/2019	4100				
5/14/2019	4200				
5/29/2019	4200				
6/12/2019	4200				
6/19/2019	4000				
6/25/2019	4000				
8/30/2019	4100	4000	3400		2800
3/17/2020	6000	4600	3700		3100
7/13/2020				9.1	
11/9/2020			3600		
11/10/2020		4200		9	
11/20/2020	4300				3100
3/8/2021					3100
3/9/2021	4000	4600	3600	8.2	
10/12/2021		3800		10	3000
10/20/2021	4050 (D)				
10/21/2021			3550 (D)		
4/6/2022		4200	3400	7.3	2900
4/7/2022	3900				

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	<0.002					
6/13/2018	<0.002					
7/23/2018	<0.002					
9/1/2018	<0.002					
10/2/2018	<0.002					
11/1/2018	<0.002					
12/6/2018	<0.002					
2/13/2019	<0.002					
3/16/2019			<0.002	<0.002		
3/27/2019			<0.002 (D)	<0.002 (D)		
4/3/2019			<0.002 (D)	<0.002 (D)		
4/16/2019			<0.002	<0.002		
5/3/2019			<0.002	<0.002		
5/14/2019			<0.002	<0.002		
5/29/2019			<0.002	<0.002		
6/12/2019			0.0022	0.0022		
8/8/2019	<0.002		<0.002	<0.002		
7/13/2020		<0.002				
7/21/2020					<0.002	<0.002
11/4/2020					<0.002	<0.002
11/9/2020			<0.002			
11/20/2020	<0.002	<0.002		<0.002		
3/8/2021	<0.002	<0.002			<0.002	<0.002
3/10/2021			0.0044	<0.002		
10/11/2021			<0.002	<0.002		
10/12/2021	<0.002	<0.002				
10/15/2021						<0.002
10/20/2021					<0.002	
4/4/2022			<0.002	<0.002		
4/5/2022	<0.002	<0.002				
4/7/2022					<0.002	<0.002

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				<0.002		<0.002
6/14/2018				<0.002		<0.002
7/24/2018				<0.002		<0.002
9/1/2018				<0.002		0.0014 (J)
10/1/2018				<0.002		<0.002
11/2/2018				<0.002		<0.002
12/7/2018				<0.002		<0.002
2/13/2019				<0.002		<0.002
3/16/2019			<0.002			
3/27/2019			<0.002			
4/3/2019			<0.002			
4/15/2019			<0.002			
5/2/2019			<0.002			
5/14/2019			<0.002			
5/28/2019			<0.002			
6/12/2019			0.0032			
8/8/2019			<0.002	<0.002		<0.002
7/11/2020					0.00157 (J)	
7/21/2020	0.00152 (J)					
7/30/2020		<0.002				
11/3/2020	<0.002					
11/4/2020		<0.002	<0.002			
11/5/2020				<0.002	<0.002	<0.002
3/8/2021	<0.002	<0.002	<0.002	<0.002	<0.002	
3/9/2021						<0.002
10/12/2021			<0.002	<0.002	<0.002	
10/15/2021		<0.002				
10/20/2021	<0.002					
10/21/2021						<0.002
4/4/2022			<0.002			
4/5/2022				<0.002	<0.002	<0.002
4/7/2022	<0.002	<0.002				

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		0.0016 (J)				
4/25/2018				0.0013 (J)		
6/14/2018		0.002 (J)		0.0012 (J)		
7/24/2018		0.0022 (J)		<0.002		
9/1/2018		0.0025		0.0024 (J)		
10/1/2018		0.0028				
10/2/2018				0.0015 (J)		
11/2/2018		0.0026		0.0014 (J)		
12/6/2018		0.0012 (J)		<0.002		
2/13/2019		0.0013 (J)		<0.002		
8/9/2019		<0.002		<0.002		
7/13/2020	<0.002					
7/14/2020			<0.002			<0.002
7/30/2020					0.00378	
11/9/2020	<0.002	<0.002	<0.002	<0.002	0.0019 (J)	
11/10/2020						<0.002
3/9/2021	<0.002	<0.002	<0.002	<0.002	<0.002	
3/10/2021						<0.002
10/11/2021	<0.002				<0.002	
10/12/2021				<0.002		
10/14/2021		<0.002	<0.002			<0.002
4/5/2022	<0.002		<0.002			
4/6/2022		<0.002		<0.002	<0.002	
4/7/2022						<0.002

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		0.0014 (J)	<0.002		<0.002
6/13/2018					<0.002
6/14/2018		0.0014 (J)	0.0032		
7/23/2018			<0.002		<0.002
7/24/2018		0.0014 (J)			
9/6/2018		0.0017 (J)	0.0014 (J)		<0.002
10/2/2018		0.0013 (J)	<0.002		<0.002
11/1/2018			<0.002		<0.002
11/2/2018		0.0014 (J)			
12/6/2018		<0.002	<0.002		<0.002
2/13/2019		<0.002	<0.002		<0.002
4/5/2019	<0.002 (D)				
4/15/2019	<0.002				
5/2/2019	<0.002				
5/14/2019	<0.002				
5/29/2019	<0.002				
6/12/2019	<0.002				
6/19/2019	<0.002				
6/25/2019	<0.002				
8/8/2019					<0.002
8/9/2019	<0.002	<0.002	<0.002		
7/13/2020				<0.002	
11/9/2020			<0.002		
11/10/2020		<0.002		<0.002	
11/20/2020	<0.002				<0.002
3/8/2021					<0.002
3/9/2021	<0.002	0.0022	<0.002	<0.002	
10/12/2021		<0.002		<0.002	<0.002
10/20/2021	<0.002				
10/21/2021			<0.002		
4/6/2022		<0.002	<0.002	<0.002	<0.002
4/7/2022	<0.002				

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	<0.0025					
6/13/2018	<0.0025					
7/23/2018	<0.0025					
9/1/2018	<0.0025					
10/2/2018	<0.0025					
11/1/2018	<0.0025					
12/6/2018	<0.0025					
2/13/2019	<0.0025					
3/16/2019			<0.0025	<0.0025		
3/27/2019			<0.0025 (D)	<0.0025 (D)		
4/3/2019			<0.0025 (D)	<0.0025 (D)		
4/16/2019			<0.0025	<0.0025		
5/3/2019			<0.0025	<0.0025		
5/14/2019			<0.0025	<0.0025		
5/29/2019			<0.0025	<0.0025		
6/12/2019			<0.0025	<0.0025		
8/8/2019	0.00012 (J)		<0.0025	<0.0025		
8/29/2019			<0.0025	<0.0025		
8/30/2019	8.2E-05 (J)					
3/17/2020	<0.0025		<0.0025	<0.0025		
7/13/2020		<0.0025				
7/21/2020				<0.0025	<0.0025	
11/4/2020				<0.0025	<0.0025	
11/9/2020			0.00022 (J)			
11/20/2020	<0.0025	<0.0025		<0.0025		
3/8/2021	0.00033 (J)	0.00028 (J)			<0.0025	<0.0025
3/10/2021			0.00031 (J)	<0.0025		
10/11/2021			0.00044 (J)	<0.0025		
10/12/2021	<0.0025	<0.0025				
10/15/2021						<0.0025
10/20/2021					<0.0025	
4/4/2022			0.00063 (J)	<0.0025		
4/5/2022	<0.0025	<0.0025				
4/7/2022					<0.0025	<0.0025

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				<0.0025		0.0026
6/14/2018				<0.0025		0.0023 (J)
7/24/2018				<0.0025		0.0026
9/1/2018				<0.0025		0.0023 (J)
10/1/2018				<0.0025		0.0028
11/2/2018				<0.0025		0.0027
12/7/2018				<0.0025		0.0028
2/13/2019				<0.0025		0.0028
3/16/2019			0.00057 (J)			
3/27/2019			0.00044 (J)			
4/3/2019			0.0004 (J)			
4/15/2019			0.00042 (J)			
5/2/2019			<0.0025			
5/14/2019			0.00044 (J)			
5/28/2019			<0.0025			
6/12/2019			0.00037 (J)			
8/8/2019			0.00017 (J)	<0.0025		0.0019
8/30/2019			0.00017 (J)	<0.0025		0.0025
3/16/2020			<0.0025	<0.0025		0.0022
7/11/2020					<0.0025	
7/21/2020	<0.0025					
7/30/2020		<0.0025				
11/3/2020	<0.0025					
11/4/2020		<0.0025	<0.0025			
11/5/2020				<0.0025	<0.0025	0.003
3/8/2021	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
3/9/2021						0.0034
10/12/2021			<0.0025	<0.0025	<0.0025	
10/15/2021		0.00016 (J)				
10/20/2021	<0.0025					
10/21/2021						0.004
4/4/2022			<0.0025			
4/5/2022				<0.0025	<0.0025	0.0037
4/7/2022	<0.0025	<0.0025				

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		0.0033				
4/25/2018				<0.0025		
6/14/2018		0.0032		<0.0025		
7/24/2018		0.0036		<0.0025		
9/1/2018		0.0039		<0.0025		
10/1/2018		0.0029				
10/2/2018				<0.0025		
11/2/2018		0.0034		<0.0025		
12/6/2018		0.0032		<0.0025		
2/13/2019		0.0043		<0.0025		
8/9/2019		0.0034		7.5E-05 (J)		
8/30/2019		0.0034		7.9E-05 (J)		
3/16/2020		0.0039				
3/17/2020				<0.0025		
7/13/2020	<0.0025					
7/14/2020			0.00381			<0.0025
7/30/2020					0.0011 (J)	
11/9/2020	0.00021 (J)	0.0037	0.0031	<0.0025	0.00071 (J)	
11/10/2020						<0.0025
3/9/2021	<0.0025	0.0041	0.0023 (J)	<0.0025	0.00041 (J)	
3/10/2021						0.00021 (J)
10/11/2021	<0.0025				0.0003 (J)	
10/12/2021				<0.0025		
10/14/2021		0.0032	0.0037			<0.0025
4/5/2022	<0.0025		0.0055			
4/6/2022		0.0034		<0.0025	0.00033 (J)	
4/7/2022						<0.0025

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		<0.0025	<0.0025		<0.0025
6/13/2018					<0.0025
6/14/2018		<0.0025	<0.0025		
7/23/2018			<0.0025		<0.0025
7/24/2018		<0.0025			
9/6/2018		0.00043 (J)	<0.0025		<0.0025
10/2/2018		<0.0025	<0.0025		<0.0025
11/1/2018			<0.0025		<0.0025
11/2/2018		<0.0025			
12/6/2018		<0.0025	<0.0025		<0.0025
2/13/2019		<0.0025	<0.0025		<0.0025
4/5/2019	0.0049 (D)				
4/15/2019	0.0045				
5/2/2019	0.0012 (J)				
5/14/2019	0.0024 (J)				
5/29/2019	0.0022 (J)				
6/12/2019	0.002 (J)				
6/19/2019	0.004 (J)				
6/25/2019	0.0014 (J)				
8/8/2019					8.4E-05 (J)
8/9/2019	0.0022	0.00025 (J)	<0.0025		
8/30/2019	0.0039	0.00023 (J)	<0.0025		8.9E-05 (J)
3/17/2020	0.0029	0.00024 (J)	<0.0025		<0.0025
7/13/2020				0.00121 (J)	
11/9/2020			<0.0025		
11/10/2020		0.00024 (J)		<0.0025	
11/20/2020	0.0024 (J)				<0.0025
3/8/2021					<0.0025
3/9/2021	0.0017 (J)	0.00025 (J)	<0.0025	<0.0025	
10/12/2021		0.00028 (J)		<0.0025	<0.0025
10/20/2021	0.0032				
10/21/2021			<0.0025		
4/6/2022		<0.0025	<0.0025	<0.0025	<0.0025
4/7/2022	0.0028				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	2.66					
6/13/2018	2.91					
7/23/2018	3.49					
9/1/2018	3.15					
10/2/2018	3.38					
11/1/2018	2.19					
12/6/2018	2.69					
2/13/2019	2.97					
3/16/2019			0.421	0.765		
3/27/2019			0.499	0.306 (U)		
4/3/2019			0.526	1.12		
4/16/2019			0.73	0.447		
5/3/2019			0.32 (U)	0.357		
5/14/2019			0.431 (U)	0.342 (U)		
5/29/2019			0.205 (U)	0.519 (U)		
6/12/2019			<5	<5		
8/8/2019	2.16		0.535	0.262 (U)		
8/29/2019			0.19 (U)	0.253 (U)		
8/30/2019	2.19					
3/17/2020	2.94		0.596	0.703		
7/13/2020		0.272 (U)				
7/21/2020					2.72	4.86
11/4/2020					1.59	3.79
11/9/2020			0.0786 (U)			
11/20/2020	3.47	-0.129 (U)		0.199 (U)		
3/8/2021	2.86	0.73			3.18	5.04
3/10/2021			0.389	0.594		
10/11/2021			0.645	0.994		
10/12/2021	3.57	0.769				
10/15/2021						3.57
10/20/2021					2.8	
4/4/2022			0.478	0.74		
4/5/2022	3.1	0.594				
4/7/2022					2.12	4.53

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				21.8		5.84
6/14/2018				20.9		6.37
7/24/2018				19.2		7.22
9/1/2018				17.5		5.46
10/1/2018				19.9		8.54
11/2/2018				17.4		6.02
12/7/2018				18.5		6.26
2/13/2019				19.2		6.67
3/16/2019			5.87			
3/27/2019			6.56			
4/3/2019			7.03			
4/15/2019			6.75			
5/2/2019			6.82			
5/14/2019			6.96			
5/28/2019			4.12			
6/12/2019			8.8			
8/8/2019			7.52	18.7		6.41
8/30/2019			7.98	16.5		5.45
3/16/2020			10.6	18.8		6.5
7/11/2020					0.179 (U)	
7/21/2020	3.28					
7/30/2020		2.38				
11/3/2020	1.39					
11/4/2020		1.53	8.99			
11/5/2020				15.3	0.158 (U)	5.33
3/8/2021	1.91	2.54	14.2	21.4	0.164 (U)	
3/9/2021						2.68
10/12/2021			12	20.6	-0.0129 (U)	
10/15/2021		1.83				
10/20/2021	1.49					
10/21/2021						5.6
4/4/2022			12.5			
4/5/2022				17.4	0.117 (U)	7.45
4/7/2022	1.49	1.88				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		2.4				
4/25/2018				3.67		
6/14/2018		2.5		4.18		
7/24/2018		3.01		4.95		
9/1/2018		2.3		4.44		
10/1/2018		3.49				
10/2/2018				4.79		
11/2/2018		1.94		4		
12/6/2018		2.68		5.01		
2/13/2019		2.05		4.53		
8/9/2019		2.09		3.81		
8/30/2019		1.24		2.82		
3/16/2020		1.71				
3/17/2020				4.23		
7/13/2020	0.857					
7/14/2020			9.33			0.591
7/30/2020					0.29 (UD)	
11/9/2020	0.501	2	6.03	3.42	0.381 (U)	
11/10/2020						0.113 (U)
3/9/2021	0.605	2.08	8.34	4.01	0.24 (U)	
3/10/2021						0.186 (U)
10/11/2021	1.6				0.194 (U)	
10/12/2021				3.74		
10/14/2021		2.56	8.45			1.24
4/5/2022	0.853		7.09			
4/6/2022		1.71		5.09	0.644	
4/7/2022						0.752

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		5.8	3.26		6.49
6/13/2018					6.43
6/14/2018		5.94	3.41		
7/23/2018			4.02		6.82
7/24/2018		6.56			
9/6/2018		7.39	3.86		7.4
10/2/2018		8.19	4.63		7.43
11/1/2018			3.37		6.67
11/2/2018		5.87			
12/6/2018		6.64	3.92		6.92
2/13/2019		6.19	3.66		6.91
4/5/2019	2.85				
4/15/2019	3.24				
5/2/2019	3				
5/14/2019	3.2				
5/29/2019	2.88				
6/12/2019	3.04				
6/19/2019	3.59				
6/25/2019	3.61				
8/8/2019					6.71
8/9/2019	3.14	6.86	3.52		
8/30/2019	2.52	6.63	3.96		7.32
3/17/2020	3.16	5.37	3.43		7.36
7/13/2020				0.898	
11/9/2020			2.55		
11/10/2020		6.91		0.293 (U)	
11/20/2020	3.32				8.11
3/8/2021					9.26
3/9/2021	0.234 (U)	2.66	3.52	-0.149 (U)	
10/12/2021		7.77		1.07	8.92
10/20/2021	2.8				
10/21/2021			4.05		
4/6/2022		6.15	4.27	0.565	6.93
4/7/2022	3.12				

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	0.69					
6/13/2018	0.64					
7/23/2018	0.76					
9/1/2018	0.81					
10/2/2018	0.78					
11/1/2018	0.88					
12/6/2018	0.75					
2/13/2019	0.72					
3/16/2019			0.047 (J)	0.041 (J)		
3/27/2019			<2 (D)	0.49 (D)		
4/3/2019			<2 (D)	0.086 (JD)		
4/4/2019	0.63					
4/16/2019			0.034 (J)	0.055 (J)		
5/3/2019			0.042 (J)	0.058 (J)		
5/14/2019			0.039 (J)	0.071 (J)		
5/29/2019			<2	0.042 (J)		
6/12/2019			<2	0.037 (J)		
8/8/2019	0.58		0.051 (J)	0.072 (J)		
8/29/2019			0.061 (J)	0.065 (J)		
8/30/2019	0.5					
3/17/2020	0.38		<2	0.036 (J)		
7/13/2020		0.24				
7/21/2020				0.09 (J)	0.07 (J)	
11/4/2020				0.24 (J)	<2	
11/9/2020			<2			
11/20/2020	0.81	0.13 (J)		<2		
3/8/2021	0.66	0.23			0.17 (J)	<2
3/10/2021			0.056 (J)	0.052 (J)		
10/11/2021			0.041 (J)	0.079 (J)		
10/12/2021	0.66	0.22				
10/15/2021						0.19 (J)
10/20/2021					0.14 (J)	
4/4/2022			0.062 (J)	0.051 (J)		
4/5/2022	0.82	0.19 (J)				
4/7/2022					0.39 (J)	<2

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				0.06 (J)		0.33
6/14/2018				0.06 (J)		0.37
7/24/2018				0.07 (J)		0.42
9/1/2018				0.08 (J)		0.45
10/1/2018				0.07 (J)		0.39
11/2/2018				0.08 (J)		0.42
12/7/2018				4.3 (o)		0.64
2/13/2019				0.05 (J)		0.35
3/16/2019			<2			
3/27/2019			<2			
4/3/2019			<2			
4/5/2019				0.14 (J)		0.7 (J)
4/15/2019			0.14 (J)			
5/2/2019			0.13 (J)			
5/14/2019			<2			
5/28/2019			0.16 (J)			
6/12/2019			<2			
8/8/2019			0.21 (J)	0.19 (J)		0.8 (J)
8/30/2019			0.21 (J)	0.17 (J)		<2
3/16/2020			<2	<2		<2
7/11/2020					0.24	
7/21/2020	0.17					
7/30/2020		0.19				
11/3/2020	<2					
11/4/2020		<2	<2			
11/5/2020				<2	0.15 (J)	<2
3/8/2021	0.41 (J)	0.28 (J)	<2	<2	0.2	
3/9/2021						0.87 (J)
10/12/2021			0.27 (J)	0.22 (J)	0.18 (J)	
10/15/2021		0.44 (J)				
10/20/2021	0.25 (J)					
10/21/2021						<2
4/4/2022			0.13 (J)			
4/5/2022				<2	0.21	<2
4/7/2022	0.25 (J)	0.54 (J)				

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		0.52				
4/25/2018				0.09 (J)		
6/14/2018		0.51		0.09 (J)		
7/24/2018		0.52		0.09 (J)		
9/1/2018		0.54		0.1		
10/1/2018		0.54				
10/2/2018				0.09 (J)		
11/2/2018		0.58		0.11		
12/6/2018		0.51		1.4 (o)		
2/13/2019		0.48		0.07 (J)		
4/4/2019				<2		
4/5/2019		0.31 (J)				
8/9/2019		0.51		<2		
8/30/2019		0.54 (J)		<2		
3/16/2020		<2				
3/17/2020				<2		
7/13/2020	0.17					
7/14/2020			0.14			0.22
7/30/2020					0.17	
11/9/2020	0.18 (J)	<2	<2	<2	0.17 (J)	
11/10/2020						0.21
3/9/2021	0.18 (J)	0.55 (J)	<2	<2	0.17 (J)	
3/10/2021						0.18 (J)
10/11/2021	0.14 (J)				0.18 (J)	
10/12/2021				<2		
10/14/2021		0.5 (J)	<2			0.19 (J)
4/5/2022	0.13 (J)		<2			
4/6/2022		0.36 (J)		<2	0.27	
4/7/2022						0.2

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		0.11	1		0.06 (J)
6/13/2018					0.06 (J)
6/14/2018		0.12	1		
7/23/2018			1		0.06 (J)
7/24/2018		0.12			
9/6/2018		0.13	1.1		0.06 (J)
10/2/2018		0.13	1		0.07 (J)
11/1/2018			1.1		0.07 (J)
11/2/2018		0.14			
12/6/2018		0.13	0.98		0.21 (o)
2/13/2019		0.1	0.98		0.07 (J)
4/4/2019		<2	0.58 (J)		<2
4/5/2019	<2 (D)				
4/15/2019	<2				
5/2/2019	<2				
5/14/2019	<2				
5/29/2019	<2				
6/12/2019	<2				
6/19/2019	<2				
6/25/2019	0.32 (J)				
8/8/2019					0.2 (J)
8/9/2019	<2	0.22 (J)	0.9 (J)		
8/30/2019	0.27 (J)	0.41 (J)	0.85 (J)		0.18 (J)
3/17/2020	<2	1.6	0.52 (J)		<2
7/13/2020				0.15	
11/9/2020			0.74 (J)		
11/10/2020		<2		0.22	
11/20/2020	<2				<2
3/8/2021					<2
3/9/2021	<2	0.26 (J)	1.1 (J)	0.17 (J)	
10/12/2021		<2		0.15 (J)	<2
10/20/2021	0.29 (J)				
10/21/2021			1 (J)		
4/6/2022		1.2 (J)	16	0.14 (J)	0.82 (J)
4/7/2022	6.4				

Time Series

Constituent: Lead (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	<0.001					
6/13/2018	<0.001					
7/23/2018	<0.001					
9/1/2018	<0.001					
10/2/2018	<0.001					
11/1/2018	0.0011 (J)					
12/6/2018	0.0006 (J)					
2/13/2019	<0.001					
3/16/2019			<0.001	<0.001		
3/27/2019			<0.001 (D)	<0.001 (D)		
4/3/2019			<0.001 (D)	<0.001 (D)		
4/16/2019			<0.001	<0.001		
5/3/2019			<0.001	<0.001		
5/14/2019			<0.001	<0.001		
5/29/2019			<0.001	<0.001		
6/12/2019			<0.001	<0.001		
8/8/2019	<0.001		<0.001	<0.001		
8/29/2019			<0.001	0.00017 (J)		
8/30/2019	<0.001					
3/17/2020	<0.001		<0.001	<0.001		
7/13/2020		0.00116 (J)				
7/21/2020				<0.001	<0.001	
11/4/2020				<0.001	<0.001	
11/9/2020			<0.001			
11/20/2020	<0.001	0.00089 (J)		<0.001		
3/8/2021	0.00016 (J)	0.00086 (J)			<0.001	<0.001
3/10/2021			<0.001	<0.001		
10/11/2021			<0.001	<0.001		
10/12/2021	<0.001	0.00063 (J)				
10/15/2021						<0.001
10/20/2021					<0.001	
4/4/2022			0.00063 (J)	<0.001		
4/5/2022	0.00019 (J)	0.00058 (J)				
4/7/2022					<0.001	<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				<0.001		<0.001
6/14/2018				<0.001		<0.001
7/24/2018				<0.001		<0.001
9/1/2018				<0.001		<0.001
10/1/2018				<0.001		<0.001
11/2/2018				<0.001		0.00048 (J)
12/7/2018				<0.001		<0.001
2/13/2019				<0.001		<0.001
3/16/2019			<0.001			
3/27/2019			<0.001			
4/3/2019			<0.001			
4/15/2019			<0.001			
5/2/2019			<0.001			
5/14/2019			<0.001			
5/28/2019			<0.001			
6/12/2019			<0.001			
8/8/2019			<0.001	<0.001		<0.001
8/30/2019			<0.001	<0.001		<0.001
3/16/2020			<0.001	<0.001		<0.001
7/11/2020					0.000555 (J)	
7/21/2020	<0.001					
7/30/2020		<0.001				
11/3/2020	<0.001					
11/4/2020		<0.001	<0.001			
11/5/2020				<0.001	0.00024 (J)	<0.001
3/8/2021	<0.001	<0.001	<0.001	<0.001	0.00016 (J)	
3/9/2021						<0.001
10/12/2021			<0.001	<0.001	0.0002 (J)	
10/15/2021		<0.001				
10/20/2021	<0.001					
10/21/2021						<0.001
4/4/2022			<0.001			
4/5/2022				0.00022 (J)	0.00045 (J)	0.00043 (J)
4/7/2022	<0.001	<0.001				

Time Series

Constituent: Lead (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		<0.001				
4/25/2018				<0.001		
6/14/2018		<0.001		<0.001		
7/24/2018		<0.001		<0.001		
9/1/2018		<0.001		<0.001		
10/1/2018		<0.001				
10/2/2018				<0.001		
11/2/2018		0.00062 (J)		0.0011 (J)		
12/6/2018		<0.001		0.00041 (J)		
2/13/2019		<0.001		0.00036 (J)		
8/9/2019		<0.001		<0.001		
8/30/2019		<0.001		<0.001		
3/16/2020		<0.001				
3/17/2020				<0.001		
7/13/2020	<0.001					
7/14/2020			<0.001			<0.001
7/30/2020					0.00203	
11/9/2020	<0.001	<0.001	<0.001	<0.001	0.00099 (J)	
11/10/2020						<0.001
3/9/2021	<0.001	<0.001	<0.001	<0.001	0.00026 (J)	
3/10/2021						<0.001
10/11/2021	<0.001				0.00019 (J)	
10/12/2021				<0.001		
10/14/2021		<0.001	<0.001			<0.001
4/5/2022	<0.001		0.00029 (J)			
4/6/2022		<0.001		<0.001	0.00026 (J)	
4/7/2022						<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		<0.001	<0.001		<0.001
6/13/2018					<0.001
6/14/2018		<0.001	<0.001		
7/23/2018			<0.001		<0.001
7/24/2018		<0.001			
9/6/2018		<0.001	<0.001		<0.001
10/2/2018		<0.001	<0.001		<0.001
11/1/2018			0.0016		<0.001
11/2/2018		0.0019			
12/6/2018		<0.001	0.0013		0.00039 (J)
2/13/2019		<0.001	<0.001		<0.001
4/5/2019	<0.001 (D)				
4/15/2019	<0.001				
5/2/2019	<0.001				
5/14/2019	<0.001				
5/29/2019	<0.001				
6/12/2019	<0.001				
6/19/2019	<0.001				
6/25/2019	<0.001				
8/8/2019					0.00013 (J)
8/9/2019	<0.001	<0.001	<0.001		
8/30/2019	0.00032 (J)	<0.001	<0.001		<0.001
3/17/2020	<0.001	<0.001	<0.001		<0.001
7/13/2020				<0.001	
11/9/2020			<0.001		
11/10/2020		<0.001		<0.001	
11/20/2020	<0.001				<0.001
3/8/2021					<0.001
3/9/2021	<0.001	<0.001	<0.001	<0.001	
10/12/2021		<0.001		<0.001	<0.001
10/20/2021	<0.001				
10/21/2021			<0.001		
4/6/2022		<0.001	<0.001	<0.001	<0.001
4/7/2022	<0.001				

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	0.021					
6/13/2018	0.013					
7/23/2018	0.015					
9/1/2018	0.015					
10/2/2018	0.017					
11/1/2018	0.038					
12/6/2018	0.011					
2/13/2019	0.012					
3/16/2019			0.0088	0.012		
3/27/2019			0.01 (D)	0.012 (D)		
4/3/2019			0.0068 (D)	0.013 (D)		
4/16/2019			0.0081	0.012		
5/3/2019			0.01	0.015		
5/14/2019			0.011	0.015		
5/29/2019			0.0062	0.015		
6/12/2019			0.0099	0.013		
8/8/2019	0.018		0.012	0.016		
8/29/2019			0.0067	0.011		
8/30/2019	0.01					
3/17/2020	0.017		0.014	0.017		
7/13/2020		0.0136				
7/21/2020					0.00196 (J)	<0.005
11/4/2020					0.016	<0.005
11/9/2020			0.011			
11/20/2020	0.013	0.011		0.015		
3/8/2021	0.01	0.022			0.0042 (J)	<0.005
3/10/2021			0.012	0.017		
10/11/2021			0.0089	0.015		
10/12/2021	0.0056	0.019				
10/15/2021						<0.005
10/20/2021					0.0038 (J)	
4/4/2022			0.011	0.018		
4/5/2022	0.012	0.012				
4/7/2022					0.0045 (J)	0.0044 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				0.029		0.11
6/14/2018				0.023		0.073
7/24/2018				0.023		0.079
9/1/2018				0.022		0.088
10/1/2018				0.026		0.091
11/2/2018				0.024 (J)		0.081
12/7/2018				0.022		0.072
2/13/2019				0.02		0.071
3/16/2019			0.013			
3/27/2019			0.014			
4/3/2019			0.01			
4/15/2019			0.012			
5/2/2019			0.013			
5/14/2019			0.011			
5/28/2019			<0.005			
6/12/2019			0.012			
8/8/2019			0.012	0.031		0.076
8/30/2019			0.011	0.022		0.072
3/16/2020			0.013	0.03		0.07
7/11/2020					0.0103	
7/21/2020	0.00623					
7/30/2020		0.00523				
11/3/2020	0.03					
11/4/2020		0.029	0.014			
11/5/2020				0.031	0.01	0.07
3/8/2021	0.008	0.0086	0.013	0.03	0.0091	
3/9/2021						0.075
10/12/2021			0.014	0.028	0.0079	
10/15/2021		0.009				
10/20/2021	0.0091 (D)					
10/21/2021						0.0665 (D)
4/4/2022			0.023 (J)			
4/5/2022				0.037	0.01	0.081
4/7/2022	0.0084	0.0097				

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		0.079				
4/25/2018				0.069		
6/14/2018		0.055		0.046		
7/24/2018		0.057		0.049		
9/1/2018		0.054		0.045		
10/1/2018		0.063				
10/2/2018				0.052		
11/2/2018		0.077		0.074		
12/6/2018		0.054		0.044		
2/13/2019		0.053		0.045		
8/9/2019		0.061		0.049		
8/30/2019		0.052		0.044		
3/16/2020		0.053				
3/17/2020				0.044		
7/13/2020	0.00778					
7/14/2020			0.0522			0.00696
7/30/2020					0.00791	
11/9/2020	0.006	0.049	0.043	0.044	0.0076	
11/10/2020						0.0063
3/9/2021	0.0098	0.051	0.044	0.048	0.0099	
3/10/2021						0.0059
10/11/2021	0.02				0.0075	
10/12/2021				0.039		
10/14/2021		0.052	0.11			0.0061
4/5/2022	0.014		0.073			
4/6/2022		0.046		0.046	0.0088	
4/7/2022						0.011

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		0.004 (J)	0.13		0.0039 (J)
6/13/2018					0.0027 (J)
6/14/2018		0.0026 (J)	0.085		
7/23/2018			0.09		0.0041 (J)
7/24/2018		0.003 (J)			
9/6/2018		0.0029 (J)	0.099		0.0035 (J)
10/2/2018		0.0021 (J)	0.095		0.004 (J)
11/1/2018			0.16		0.018 (o)
11/2/2018		0.014 (o)			
12/6/2018		<0.005	0.082		<0.005
2/13/2019		0.0018 (J)	0.08		0.0026 (J)
4/5/2019	0.051 (D)				
4/15/2019	0.054				
5/2/2019	0.055				
5/14/2019	0.047				
5/29/2019	0.055				
6/12/2019	0.062				
6/19/2019	0.059				
6/25/2019	0.052				
8/8/2019					0.0053
8/9/2019	0.063	<0.005	0.086		
8/30/2019	0.059	<0.005	0.068		<0.005
3/17/2020	0.056	0.0071	0.08		0.0077
7/13/2020				<0.005	
11/9/2020			0.08		
11/10/2020		0.0048 (J)		0.0044 (J)	
11/20/2020	0.055				0.0035 (J)
3/8/2021					0.0045 (J)
3/9/2021	0.057	0.004 (J)	0.073	0.005	
10/12/2021		0.0036 (J)		<0.005	<0.005
10/20/2021	0.0535 (D)				
10/21/2021			0.0735 (D)		
4/6/2022		0.0043 (J)	0.075	0.0032 (J)	0.0084
4/7/2022	0.057				

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	<0.0002					
6/13/2018	<0.0002					
7/23/2018	<0.0002					
9/1/2018	8.5E-05 (J)					
10/2/2018	<0.0002					
11/1/2018	<0.0002					
12/6/2018	<0.0002					
2/13/2019	<0.0002					
3/16/2019			<0.0002	9.7E-05 (J)		
3/27/2019			<0.0002 (D)	<0.0002 (D)		
4/3/2019			<0.0002 (D)	<0.0002 (D)		
4/16/2019			<0.0002	<0.0002		
5/3/2019			<0.0002	<0.0002		
5/14/2019			7.1E-05 (J)	<0.0002		
5/29/2019			<0.0002	<0.0002		
6/12/2019			<0.0002	<0.0002		
8/8/2019	<0.0002		<0.0002	<0.0002		
7/13/2020		<0.0002				
7/21/2020					<0.0002	<0.0002
11/4/2020					<0.0002	<0.0002
11/9/2020			<0.0002			
11/20/2020	<0.0002	<0.0002		<0.0002		
3/8/2021	<0.0002	<0.0002			<0.0002	<0.0002
3/10/2021			<0.0002	<0.0002		
10/11/2021			<0.0002	<0.0002		
10/12/2021	<0.0002	<0.0002				
10/15/2021						<0.0002
10/20/2021					<0.0002	
4/4/2022			<0.0002	<0.0002		
4/5/2022	<0.0002	<0.0002				
4/7/2022					<0.0002	<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				<0.0002		<0.0002
6/14/2018				<0.0002		<0.0002
7/24/2018				<0.0002		<0.0002
9/1/2018				<0.0002		<0.0002
10/1/2018				<0.0002		<0.0002
11/2/2018				<0.0002		<0.0002
12/7/2018				<0.0002		<0.0002
2/13/2019				<0.0002		<0.0002
3/16/2019			<0.0002			
3/27/2019			<0.0002			
4/3/2019			<0.0002			
4/15/2019			0.00015 (J)			
5/2/2019			<0.0002			
5/14/2019			<0.0002			
5/28/2019			<0.0002			
6/12/2019			<0.0002			
8/8/2019			<0.0002	<0.0002		<0.0002
7/11/2020					<0.0002	
7/21/2020	<0.0002					
7/30/2020		<0.0002				
11/3/2020	<0.0002					
11/4/2020		<0.0002	<0.0002			
11/5/2020				<0.0002	<0.0002	<0.0002
3/8/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
3/9/2021						<0.0002
10/12/2021			<0.0002	<0.0002	<0.0002	
10/15/2021		<0.0002				
10/20/2021	<0.0002					
10/21/2021						<0.0002
4/4/2022			<0.0002			
4/5/2022				<0.0002	<0.0002	<0.0002
4/7/2022	<0.0002	<0.0002				

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		<0.0002				
4/25/2018				<0.0002		
6/14/2018		<0.0002		<0.0002		
7/24/2018		<0.0002		<0.0002		
9/1/2018		<0.0002		9.3E-05 (J)		
10/1/2018		<0.0002				
10/2/2018				<0.0002		
11/2/2018		<0.0002		<0.0002		
12/6/2018		<0.0002		<0.0002		
2/13/2019		<0.0002		<0.0002		
8/9/2019		<0.0002		<0.0002		
7/13/2020	<0.0002					
7/14/2020			<0.0002			<0.0002
7/30/2020					<0.0002	
11/9/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
11/10/2020						<0.0002
3/9/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
3/10/2021						<0.0002
10/11/2021	<0.0002				<0.0002	
10/12/2021				<0.0002		
10/14/2021		<0.0002	<0.0002			<0.0002
4/5/2022	<0.0002		<0.0002			
4/6/2022		<0.0002		<0.0002	<0.0002	
4/7/2022						<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		<0.0002	<0.0002		<0.0002
6/13/2018					<0.0002
6/14/2018		<0.0002	<0.0002		
7/23/2018			<0.0002		<0.0002
7/24/2018		<0.0002			
9/6/2018		9E-05 (J)	7.7E-05 (J)		0.00035
10/2/2018		<0.0002	<0.0002		<0.0002
11/1/2018			<0.0002		<0.0002
11/2/2018		<0.0002			
12/6/2018		<0.0002	<0.0002		<0.0002
2/13/2019		<0.0002	<0.0002		<0.0002
4/5/2019	<0.0002 (D)				
4/15/2019	<0.0002				
5/2/2019	<0.0002				
5/14/2019	<0.0002				
5/29/2019	<0.0002				
6/12/2019	<0.0002				
6/19/2019	<0.0002				
6/25/2019	<0.0002				
8/8/2019					<0.0002
8/9/2019	<0.0002	<0.0002	<0.0002		
7/13/2020				<0.0002	
11/9/2020			<0.0002		
11/10/2020		<0.0002		<0.0002	
11/20/2020	<0.0002				<0.0002
3/8/2021					<0.0002
3/9/2021	<0.0002	<0.0002	<0.0002	<0.0002	
10/12/2021		<0.0002		<0.0002	<0.0002
10/20/2021	<0.0002				
10/21/2021			<0.0002		
4/6/2022		<0.0002	<0.0002	<0.0002	<0.0002
4/7/2022	<0.0002				

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	0.11					
6/13/2018	0.09					
7/23/2018	0.11					
9/1/2018	0.11					
10/2/2018	0.1					
11/1/2018	0.11					
12/6/2018	0.1					
2/13/2019	0.085					
3/16/2019			<0.015	<0.015		
3/27/2019			<0.015 (D)	<0.015 (D)		
4/3/2019			<0.015 (D)	<0.015 (D)		
4/16/2019			<0.015	<0.015		
5/3/2019			<0.015	<0.015		
5/14/2019			<0.015	<0.015		
5/29/2019			<0.015	<0.015		
6/12/2019			<0.015	<0.015		
8/8/2019	0.11		<0.015	<0.015		
8/29/2019			<0.015	<0.015		
8/30/2019	0.078					
3/17/2020	0.081		<0.015	<0.015		
7/13/2020		0.00884 (J)				
7/21/2020				<0.015	<0.015	
11/4/2020				<0.015	<0.015	
11/9/2020			<0.015			
11/20/2020	0.059	0.017		<0.015		
3/8/2021	0.055	0.0096 (J)			<0.015	<0.015
3/10/2021			<0.015	<0.015		
10/11/2021			<0.015	<0.015		
10/12/2021	0.033	0.0099 (J)				
10/15/2021						<0.015
10/20/2021					<0.015	
4/4/2022			<0.015	<0.015		
4/5/2022	0.043	0.0058 (J)				
4/7/2022					<0.015	<0.015

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				<0.015		0.073
6/14/2018				<0.015		0.068
7/24/2018				<0.015		0.065
9/1/2018				<0.015		0.05
10/1/2018				<0.015		0.061
11/2/2018				<0.015		0.062
12/7/2018				<0.015		0.062
2/13/2019				<0.015		0.061
3/16/2019			<0.015			
3/27/2019			<0.015			
4/3/2019			<0.015			
4/15/2019			<0.015			
5/2/2019			<0.015			
5/14/2019			<0.015			
5/28/2019			<0.015			
6/12/2019			<0.015			
8/8/2019			<0.015	0.00079 (J)		0.073
8/30/2019			<0.015	<0.015		0.065
3/16/2020			<0.015	<0.015		0.072
7/11/2020					0.00558 (J)	
7/21/2020	<0.015					
7/30/2020		<0.015				
11/3/2020	0.00082 (J)					
11/4/2020		0.0009 (J)	<0.015			
11/5/2020				<0.015	0.0038 (J)	0.067
3/8/2021	<0.015	<0.015	<0.015	<0.015	0.0018 (J)	
3/9/2021						0.076
10/12/2021			<0.015	<0.015	0.0011 (J)	
10/15/2021		<0.015				
10/20/2021	<0.015 (D)					
10/21/2021						0.0705 (D)
4/4/2022			<0.015			
4/5/2022				<0.015	0.0011 (J)	0.071
4/7/2022	<0.015	<0.015				

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		0.011 (J)				
4/25/2018				0.056		
6/14/2018		0.0083 (J)		0.048		
7/24/2018		0.0075 (J)		0.078		
9/1/2018		0.0082 (J)		0.081		
10/1/2018		0.0088 (J)				
10/2/2018				0.07		
11/2/2018		0.0083 (J)		0.1		
12/6/2018		0.0093 (J)		0.069		
2/13/2019		0.0093 (J)		0.1		
8/9/2019		0.012		0.15		
8/30/2019		0.011		0.088		
3/16/2020		0.01				
3/17/2020				0.079		
7/13/2020	<0.015					
7/14/2020			0.257			<0.015
7/30/2020					<0.015	
11/9/2020	0.0022 (J)	0.0084 (J)	0.35	0.11	0.0012 (J)	
11/10/2020						0.00081 (J)
3/9/2021	0.0012 (J)	0.0059 (J)	0.37	0.072	0.00091 (J)	
3/10/2021						0.0011 (J)
10/11/2021	<0.015				0.0008 (J)	
10/12/2021				0.074		
10/14/2021		0.0042 (J)	0.23			0.0012 (J)
4/5/2022	0.0007 (J)		0.25			
4/6/2022		0.005 (J)		0.074	0.00078 (J)	
4/7/2022						0.00098 (J)

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		0.00096 (J)	0.18		<0.015
6/13/2018					<0.015
6/14/2018		0.0062 (J)	0.17		
7/23/2018			0.17		<0.015
7/24/2018		0.0063 (J)			
9/6/2018		<0.015	0.15		<0.015
10/2/2018		<0.015	0.15		0.0009 (J)
11/1/2018			0.16		<0.015
11/2/2018		0.0066 (J)			
12/6/2018		0.0062 (J)	0.14		<0.015
2/13/2019		0.0047 (J)	0.13		<0.015
4/5/2019	0.41 (D)				
4/15/2019	0.4				
5/2/2019	0.3				
5/14/2019	0.36				
5/29/2019	0.4				
6/12/2019	0.34				
6/19/2019	0.41				
6/25/2019	0.37				
8/8/2019					<0.015
8/9/2019	0.48	<0.015	0.12		
8/30/2019	0.42	<0.015	0.11		0.00093 (J)
3/17/2020	0.47	<0.015	0.094		<0.015
7/13/2020				<0.015	
11/9/2020			0.072		
11/10/2020		<0.015		0.00067 (J)	
11/20/2020	0.42				<0.015
3/8/2021					<0.015
3/9/2021	0.48	<0.015	0.069	<0.015	
10/12/2021		<0.015		<0.015	<0.015
10/20/2021	0.45 (D)				
10/21/2021			0.056 (D)		
4/6/2022		<0.015	0.053	0.0011 (J)	<0.015
4/7/2022	0.5				

Time Series

Constituent: pH (SU) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	6.7					
6/13/2018	6.64					
7/23/2018	6.76					
9/1/2018	6.9					
10/2/2018	6.77					
11/1/2018	6.89					
12/6/2018	6.89					
2/13/2019	6.81					
3/16/2019			6.97	6.44		
3/27/2019			6.7	6.38		
4/3/2019			6.45	6.19		
4/4/2019	6.74					
4/16/2019			6.52	6.3		
5/3/2019			6.37	6.33		
5/14/2019			6.57	6.64		
5/29/2019			6.31	6.6		
6/12/2019			6.41	6.31		
8/8/2019	6.84		6.29	6.12		
8/29/2019			6.2	6.24		
8/30/2019	7.09					
3/17/2020	6.93		6.2	6.2		
7/13/2020		8.94				
7/21/2020					6.01	6.08
11/4/2020					6.01	6.03
11/9/2020			6.21			
11/20/2020	6.94	8.86		6.31		
3/8/2021	7.61	9.38			5.97	5.99
3/10/2021			6.29			
10/11/2021			6.13	6.08		
10/12/2021	6.75	8.92				
10/15/2021						5.97
10/20/2021					5.89	
4/4/2022			5.97	6		
4/5/2022	7.17	9.04				
4/7/2022					6.07	6.07

Time Series

Constituent: pH (SU) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				5.89		6.46
6/14/2018				5.96		6.5
7/24/2018				6.03		6.6
9/1/2018				6.23		6.74
10/1/2018				5.94		6.51
11/2/2018				5.98		6.55
12/7/2018				5.98		6.55
2/13/2019				6.09		6.69
3/16/2019			6.67			
3/27/2019			6.59			
4/3/2019			6.56			
4/5/2019				6.03		6.7
4/15/2019			6.68			
5/2/2019			6.78			
5/14/2019			6.7			
5/28/2019			6.56			
6/12/2019			6.69			
8/8/2019			6.68	6.03		6.7
8/30/2019			6.72	6.1		6.75
3/16/2020			6.51	5.91		6.61
7/11/2020					7.84	
7/21/2020	6.51					
7/30/2020		6.48				
11/3/2020	6.51					
11/4/2020		6.58	6.45			
11/5/2020				5.92	7.79	6.58
3/8/2021	6.41	6.48	6.4	5.97		
3/9/2021						6.48
10/12/2021			6.43	5.89	7.57	
10/15/2021		6.55				
10/20/2021	6.54					
10/21/2021						6.54
4/4/2022			6.34			
4/5/2022				5.46	7.2	6.45
4/7/2022	6.53	6.55				

Time Series

Constituent: pH (SU) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		6.31				
4/25/2018				6.04		
6/14/2018		6.28		6.29		
7/24/2018		6.34		6.35		
9/1/2018		6.33		6.38		
10/1/2018		6.36				
10/2/2018				6.47		
11/2/2018		6.43		6.42		
12/6/2018		6.43		6.42		
2/13/2019		6.48		6.42		
4/4/2019				6.35		
4/5/2019		6.33				
8/9/2019		6.69		6.42		
8/30/2019		6.68		6.47		
3/16/2020		6.71				
3/17/2020				6.32		
7/13/2020	6.88					
7/14/2020			6.89			7.07
7/30/2020					6.67	
11/9/2020	6.86	6.37	6.89	6.37	6.71	
3/9/2021	7.02	6.27	6.83	6.32	6.62	
3/10/2021						6.81
10/11/2021	6.76				6.61	
10/12/2021				6.55		
10/14/2021		6.41	6.67			6.76
4/5/2022	7.01		6.58			
4/6/2022		6.37		6.16	6.65	
4/7/2022						6.69

Time Series

Constituent: pH (SU) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		6.31	6.69		6.19
6/13/2018					6.18
6/14/2018		6.25	6.66		
7/23/2018			6.7		6.19
7/24/2018		6.34			
9/6/2018		6.29	6.66		6.13
10/2/2018		6.28	6.63		6.13
11/1/2018			6.75		6.25
11/2/2018		6.4			
12/6/2018		6.4	6.75		6.25
2/13/2019		6.37	6.7		6.24
4/4/2019		6.33	6.72		6.17
4/5/2019	6.12				
4/15/2019	6.14				
5/2/2019	6.19				
5/14/2019	6.12				
5/29/2019	6.11				
6/12/2019	6.09				
6/19/2019	6.1				
6/25/2019	6.18				
8/8/2019					6.23
8/9/2019	6.03	6.34	6.74		
8/30/2019	5.92	6.31	6.68		6.1
3/17/2020	5.97	6.57	6.69		
7/13/2020				6.77	
11/9/2020			6.74		
11/10/2020		6.37		7.06	
11/20/2020	6.09				6.23
3/8/2021					7
3/9/2021	6.13	6.39	6.74	7.1	
10/12/2021		6.51		6.95	6.16
10/20/2021	5.94				
10/21/2021			6.74		
4/6/2022		6.38	6.74	6.73	6.13
4/7/2022	5.91				

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	0.00061 (J)					
6/13/2018	0.00034 (J)					
7/23/2018	0.00035 (J)					
9/1/2018	<0.005					
10/2/2018	<0.005					
11/1/2018	<0.005					
12/6/2018	<0.005					
2/13/2019	<0.005					
3/16/2019			<0.005	<0.005		
3/27/2019			<0.005 (D)	<0.005 (D)		
4/3/2019			<0.005 (D)	<0.005 (D)		
4/16/2019			<0.005	<0.005		
5/3/2019			<0.005	<0.005		
5/14/2019			<0.005	<0.005		
5/29/2019			<0.005	<0.005		
6/12/2019			<0.005	<0.005		
8/8/2019	<0.005		<0.005	<0.005		
8/29/2019			<0.005	<0.005		
8/30/2019	<0.005					
3/17/2020	<0.005		<0.005	<0.005		
7/13/2020		<0.005				
7/21/2020					<0.005	<0.005
11/4/2020					<0.005	<0.005
11/9/2020			<0.005			
11/20/2020	<0.005	<0.005		<0.005		
3/8/2021	<0.005	<0.005			<0.005	<0.005
3/10/2021			<0.005	<0.005		
10/11/2021			<0.005	<0.005		
10/12/2021	<0.005	<0.005				
10/15/2021						<0.005
10/20/2021					<0.005	
4/4/2022			<0.005	<0.005		
4/5/2022	<0.005	<0.005				
4/7/2022					<0.005	<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				<0.005		0.0016
6/14/2018				0.00061 (J)		0.0019
7/24/2018				0.00037 (J)		0.00087 (J)
9/1/2018				<0.005		0.001 (J)
10/1/2018				<0.005		<0.005
11/2/2018				0.00072 (J)		0.001 (J)
12/7/2018				<0.005		0.0011 (J)
2/13/2019				<0.005		<0.005
3/16/2019			<0.005			
3/27/2019			<0.005			
4/3/2019			<0.005			
4/15/2019			<0.005			
5/2/2019			<0.005			
5/14/2019			<0.005			
5/28/2019			<0.005			
6/12/2019			<0.005			
8/8/2019			<0.005	<0.005		0.0017 (J)
8/30/2019			<0.005	<0.005		<0.005
3/16/2020			<0.005	<0.005		<0.005
7/11/2020					<0.005	
7/21/2020	<0.005					
7/30/2020		<0.005				
11/3/2020	<0.005					
11/4/2020		<0.005	<0.005			
11/5/2020				<0.005	<0.005	<0.005
3/8/2021	<0.005	<0.005	<0.005	<0.005	<0.005	
3/9/2021						<0.005
10/12/2021			<0.005	<0.005	<0.005	
10/15/2021		<0.005				
10/20/2021	<0.005					
10/21/2021						<0.005
4/4/2022			<0.005			
4/5/2022				<0.005	<0.005	<0.005
4/7/2022	<0.005	<0.005				

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		0.00055 (J)				
4/25/2018				0.00071 (J)		
6/14/2018		0.00068 (J)		0.0006 (J)		
7/24/2018		0.00036 (J)		0.0006 (J)		
9/1/2018		<0.005		<0.005		
10/1/2018		<0.005				
10/2/2018				<0.005		
11/2/2018		<0.005		<0.005		
12/6/2018		<0.005		<0.005		
2/13/2019		<0.005		<0.005		
8/9/2019		<0.005		<0.005		
8/30/2019		<0.005		<0.005		
3/16/2020		<0.005				
3/17/2020				<0.005		
7/13/2020	<0.005					
7/14/2020			<0.005			<0.005
7/30/2020					<0.005	
11/9/2020	<0.005	<0.005	<0.005	<0.005	<0.005	
11/10/2020						<0.005
3/9/2021	<0.005	<0.005	<0.005	<0.005	<0.005	
3/10/2021						<0.005
10/11/2021	<0.005				<0.005	
10/12/2021				<0.005		
10/14/2021		<0.005	<0.005			<0.005
4/5/2022	<0.005		<0.005			
4/6/2022		<0.005		<0.005	<0.005	
4/7/2022						<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		0.00046 (J)	0.00042 (J)		0.00081 (J)
6/13/2018					0.00027 (J)
6/14/2018		0.00039 (J)	0.00049 (J)		
7/23/2018			0.0006 (J)		0.00041 (J)
7/24/2018		0.00036 (J)			
9/6/2018		<0.005	<0.005		<0.005
10/2/2018		<0.005	<0.005		<0.005
11/1/2018			<0.005		<0.005
11/2/2018		<0.005			
12/6/2018		<0.005	<0.005		<0.005
2/13/2019		<0.005	<0.005		<0.005
4/5/2019	<0.005 (D)				
4/15/2019	<0.005				
5/2/2019	<0.005				
5/14/2019	<0.005				
5/29/2019	<0.005				
6/12/2019	<0.005				
6/19/2019	<0.005				
6/25/2019	<0.005				
8/8/2019					<0.005
8/9/2019	<0.005	<0.005	<0.005		
8/30/2019	<0.005	<0.005	<0.005		<0.005
3/17/2020	<0.005	<0.005	<0.005		<0.005
7/13/2020				<0.005	
11/9/2020			<0.005		
11/10/2020		<0.005		<0.005	
11/20/2020	<0.005				<0.005
3/8/2021					<0.005
3/9/2021	<0.005	<0.005	<0.005	<0.005	
10/12/2021		<0.005		<0.005	<0.005
10/20/2021	<0.005				
10/21/2021			<0.005		
4/6/2022		<0.005	<0.005	<0.005	<0.005
4/7/2022	<0.005				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	290					
6/13/2018	310					
7/23/2018	300					
9/1/2018	290					
10/2/2018	300					
11/1/2018	290					
12/6/2018	290					
2/13/2019	230					
3/16/2019			3.6	0.88 (J)		
3/27/2019			0.81 (JD)	1.3 (D)		
4/3/2019			1.1 (D)	1.9 (D)		
4/4/2019	240					
4/16/2019			0.68 (J)	2.5		
5/3/2019			1.1	1.3		
5/14/2019			1.3	2.2		
5/29/2019			2.1	1.2		
6/12/2019			1.9	1.1		
8/29/2019			2.3	1.1		
8/30/2019	160					
3/17/2020	110		3.7	3.2		
7/13/2020		5.31				
7/21/2020					802	713
11/4/2020					1700 (o)	670
11/9/2020			0.51 (J)			
11/20/2020	50	2.9		0.79 (J)		
3/8/2021	24	3			720	740
3/10/2021			<5	1.1		
10/11/2021			<5	<5		
10/12/2021	4	2.4				
10/15/2021						730
10/20/2021					840	
4/4/2022			0.91 (J)	1.3		
4/5/2022	7.5	5.2				
4/7/2022					810	810

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				<5		1200
6/14/2018				7.2		1200
7/24/2018				2.7 (J)		1100
9/1/2018				1.5 (J)		1200
10/1/2018				<5		1200
11/2/2018				1.9 (J)		1000
12/7/2018				<5		1100
2/13/2019				1.5 (J)		1100
3/16/2019			14			
3/27/2019			19			
4/3/2019			4.6 (J)			
4/5/2019				7		1200
4/15/2019			8.6			
5/2/2019			6			
5/14/2019			5.8			
5/28/2019			9.4			
6/12/2019			8.8			
8/30/2019			13	8.4		1100
3/16/2020			23	16		1100
7/11/2020					10.6	
7/21/2020	52.9					
7/30/2020		33.4				
11/3/2020	550					
11/4/2020		440	10			
11/5/2020				4.4 (J)	13	1000
3/8/2021	97	72	12	5.7	4.6	
3/9/2021						1100
10/12/2021			<5	<5	3.1	
10/15/2021		55				
10/20/2021	91.5 (D)					
10/21/2021						1040 (D)
4/4/2022			21			
4/5/2022				11	3.9	1100
4/7/2022	160	140				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		340				
4/25/2018				920		
6/14/2018		350		980		
7/24/2018		310		950		
9/1/2018		300		980		
10/1/2018		330				
10/2/2018				960		
11/2/2018		310		860		
12/6/2018		300		990		
2/13/2019		320		930		
4/4/2019				1100		
4/5/2019		330				
8/30/2019		330		940		
3/16/2020		330				
3/17/2020				910		
7/13/2020	8.05					
7/14/2020			554			33.5
7/30/2020					12.7	
11/9/2020	5.8	320	560	1000	13	
11/10/2020						20
3/9/2021	11	320	520	910	11	
3/10/2021						14
10/11/2021	4.8				8.9	
10/12/2021				900		
10/14/2021		290	660			12
4/5/2022	6.6		720			
4/6/2022		300		910	10	
4/7/2022						11

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		65	670		270
6/13/2018					300
6/14/2018		81	650		
7/23/2018			610		280
7/24/2018		52			
9/6/2018		53	690		270
10/2/2018		34	650		280
11/1/2018			610		270
11/2/2018		35			
12/6/2018		65	660		300
2/13/2019		74	600		280
4/4/2019		61	640		330
4/5/2019	800 (D)				
4/15/2019	700				
5/2/2019	810				
5/14/2019	810				
5/29/2019	830				
6/12/2019	830				
6/19/2019	810				
6/25/2019	800				
8/30/2019	800	83	620		280
3/17/2020	590	430	680		290
7/13/2020				10.5	
11/9/2020			590		
11/10/2020		64		1.8	
11/20/2020	790				270
3/8/2021					280
3/9/2021	830	100	630	0.84 (J)	
10/12/2021		13		0.83 (J)	270
10/20/2021	835 (D)				
10/21/2021			615 (D)		
4/6/2022		98	610	15	290
4/7/2022	820				

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	<0.001					
6/13/2018	<0.001					
7/23/2018	<0.001					
9/1/2018	<0.001					
10/2/2018	<0.001					
11/1/2018	<0.001					
12/6/2018	<0.001					
2/13/2019	<0.001					
3/16/2019			<0.001	<0.001		
3/27/2019			<0.001 (D)	<0.001 (D)		
4/3/2019			<0.001 (D)	<0.001 (D)		
4/16/2019			<0.001	<0.001		
5/3/2019			<0.001	<0.001		
5/14/2019			<0.001	<0.001		
5/29/2019			<0.001	<0.001		
6/12/2019			<0.001	<0.001		
8/8/2019	0.00015 (J)		<0.001	<0.001		
8/29/2019			0.00015 (J)	0.00017 (J)		
8/30/2019	0.00058 (J)					
3/17/2020	<0.001		<0.001	<0.001		
7/13/2020		<0.001				
7/21/2020					<0.001	<0.001
11/4/2020					<0.001	<0.001
11/9/2020			<0.001			
11/20/2020	<0.001	<0.001		<0.001		
3/8/2021	0.00068 (J)	0.00057 (J)			<0.001	<0.001
3/10/2021			<0.001	<0.001		
10/11/2021			<0.001	<0.001		
10/12/2021	<0.001	<0.001				
10/15/2021						<0.001
10/20/2021					<0.001	
4/4/2022			<0.001	<0.001		
4/5/2022	<0.001	<0.001				
4/7/2022					<0.001	<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				<0.001		0.00012 (J)
6/14/2018				<0.001		<0.001
7/24/2018				<0.001		<0.001
9/1/2018				<0.001		<0.001
10/1/2018				<0.001		<0.001
11/2/2018				<0.001		<0.001
12/7/2018				<0.001		<0.001
2/13/2019				<0.001		<0.001
3/16/2019			<0.001			
3/27/2019			<0.001			
4/3/2019			<0.001			
4/15/2019			<0.001			
5/2/2019			<0.001			
5/14/2019			<0.001			
5/28/2019			<0.001			
6/12/2019			<0.001			
8/8/2019			<0.001	0.00084 (J)		<0.001
8/30/2019			<0.001	<0.001		<0.001
3/16/2020			<0.001	<0.001		<0.001
7/11/2020					<0.001	
7/21/2020	<0.001					
7/30/2020		<0.001				
11/3/2020	<0.001					
11/4/2020		<0.001	0.00019 (J)			
11/5/2020				<0.001	<0.001	<0.001
3/8/2021	<0.001	<0.001	<0.001	<0.001	<0.001	
3/9/2021						<0.001
10/12/2021			<0.001	<0.001	<0.001	
10/15/2021		<0.001				
10/20/2021	<0.001					
10/21/2021						<0.001
4/4/2022			<0.001			
4/5/2022				<0.001	<0.001	<0.001
4/7/2022	<0.001	<0.001				

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		<0.001				
4/25/2018				<0.001		
6/14/2018		<0.001		<0.001		
7/24/2018		<0.001		<0.001		
9/1/2018		<0.001		<0.001		
10/1/2018		<0.001				
10/2/2018				<0.001		
11/2/2018		<0.001		<0.001		
12/6/2018		<0.001		<0.001		
2/13/2019		<0.001		<0.001		
8/9/2019		<0.001		<0.001		
8/30/2019		<0.001		<0.001		
3/16/2020		<0.001				
3/17/2020				<0.001		
7/13/2020	<0.001					
7/14/2020			<0.001			<0.001
7/30/2020					<0.001	
11/9/2020	<0.001	<0.001	<0.001	<0.001	<0.001	
11/10/2020						<0.001
3/9/2021	<0.001	<0.001	<0.001	<0.001	<0.001	
3/10/2021						<0.001
10/11/2021	<0.001				<0.001	
10/12/2021				<0.001		
10/14/2021		<0.001	<0.001			<0.001
4/5/2022	<0.001		<0.001			
4/6/2022		<0.001		<0.001	<0.001	
4/7/2022						<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		<0.001	<0.001		<0.001
6/13/2018					<0.001
6/14/2018		<0.001	<0.001		
7/23/2018			<0.001		<0.001
7/24/2018		<0.001			
9/6/2018		<0.001	<0.001		<0.001
10/2/2018		<0.001	<0.001		<0.001
11/1/2018			<0.001		<0.001
11/2/2018		<0.001			
12/6/2018		<0.001	<0.001		<0.001
2/13/2019		<0.001	<0.001		<0.001
4/5/2019	<0.001 (D)				
4/15/2019	<0.001				
5/2/2019	<0.001				
5/14/2019	<0.001				
5/29/2019	<0.001				
6/12/2019	<0.001				
6/19/2019	<0.001				
6/25/2019	<0.001				
8/8/2019					<0.001
8/9/2019	<0.001	<0.001	0.00025 (J)		
8/30/2019	<0.001	<0.001	0.0013		0.0016
3/17/2020	<0.001	<0.001	<0.001		<0.001
7/13/2020				<0.001	
11/9/2020			<0.001		
11/10/2020		<0.001		<0.001	
11/20/2020	<0.001				<0.001
3/8/2021					0.00024 (J)
3/9/2021	<0.001	<0.001	0.00017 (J)	<0.001	
10/12/2021		<0.001		<0.001	<0.001
10/20/2021	<0.001				
10/21/2021			<0.001		
4/6/2022		<0.001	<0.001	<0.001	<0.001
4/7/2022	<0.001				

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	2500					
6/13/2018	2900					
7/23/2018	3100					
9/1/2018	2700					
10/2/2018	2900					
11/1/2018	2700					
12/6/2018	2600					
2/13/2019	2800					
3/16/2019			120	150		
3/27/2019			63 (D)	110 (D)		
4/3/2019			100 (D)	150 (D)		
4/4/2019	2500					
4/16/2019			110	150		
5/3/2019			91	130		
5/14/2019			120	150		
5/29/2019			140	180		
6/12/2019			100	130		
8/29/2019			73	110		
8/30/2019	2200					
3/17/2020	2700		95	120		
7/13/2020		152				
7/21/2020					3760	6350
11/4/2020					5400	6500
11/9/2020			68			
11/20/2020	2100	180		160		
3/8/2021	2100	160			3600	6800
3/10/2021			89	140		
10/11/2021			80	120		
10/12/2021	2300	160				
10/15/2021						5700
10/20/2021					3400	
4/4/2022			78	120		
4/5/2022	1700	140				
4/7/2022					3400	6000

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				4800		18000
6/14/2018				5700		13000
7/24/2018				6000		18000
9/1/2018				6300		20000
10/1/2018				6500		20000
11/2/2018				3800		19000
12/7/2018				5300		13000
2/13/2019				6200		16000
3/16/2019			3300			
3/27/2019			2900			
4/3/2019			3600			
4/5/2019				5000		18000
4/15/2019			3300			
5/2/2019			3300			
5/14/2019			3600			
5/28/2019			3500			
8/30/2019			3500	4400		18000
3/16/2020			4500	4400		16000
7/11/2020					170	
7/21/2020	5400					
7/30/2020		5020				
11/3/2020	9200					
11/4/2020		8500	5000			
11/5/2020				4100	190	19000
3/8/2021	6200	5100	5200	4300	160	
3/9/2021						22000
10/12/2021			4700	4400	160	
10/15/2021		5700				
10/20/2021	5200					
10/21/2021						18000
4/4/2022			4700			
4/5/2022				4400	140	16000
4/7/2022	5100	5100				

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		7700				
4/25/2018				16000		
6/14/2018		7200		14000		
7/24/2018		7000		15000		
9/1/2018		7800		16000		
10/1/2018		8400				
10/2/2018				17000		
11/2/2018		7600		15000		
12/6/2018		7400		14000		
2/13/2019		7700		16000		
4/4/2019				18000		
4/5/2019		7000				
8/30/2019		5800		16000		
3/16/2020		6100				
3/17/2020				15000		
7/13/2020	152					
7/14/2020			14800			184
7/30/2020					133 (D)	
11/9/2020	170	5400	16000	14000	130	
11/10/2020						150
3/9/2021	230	5500	19000	20000	150	
3/10/2021						160
10/11/2021	170				140	
10/12/2021				15000		
10/14/2021		5700	15000			150
4/5/2022	160		14000			
4/6/2022		5200		15000	130	
4/7/2022						160

Time Series

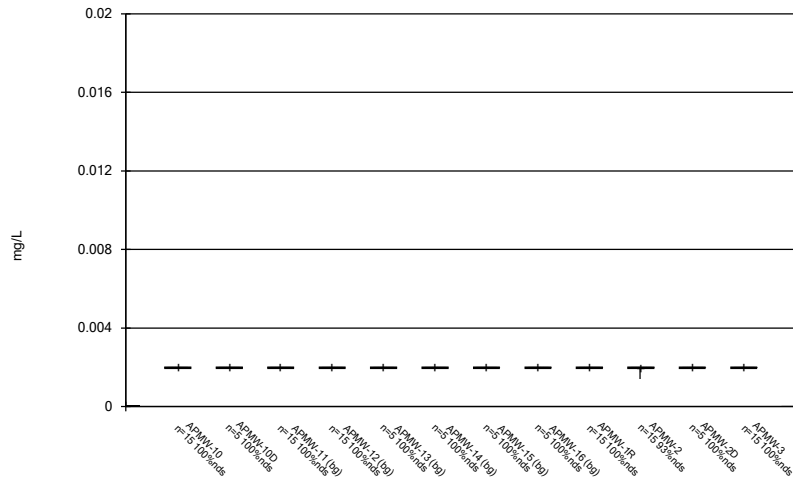
Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/13/2022 1:06 PM View: Time Series

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		7500	6400		5800
6/13/2018					5800
6/14/2018		7000	6000		
7/23/2018			7200		5800
7/24/2018		7200			
9/6/2018		7000	7800		6300
10/2/2018		7400	8200		6500
11/1/2018			7300		5000
11/2/2018		6900			
12/6/2018		6900	8300		6000
2/13/2019		8200	8900		6700
4/4/2019		8100	7700		4500
4/5/2019	7800 (D)				
4/15/2019	6600				
5/2/2019	7400				
5/14/2019	8300				
5/29/2019	8600				
6/12/2019	6800				
6/19/2019	7100				
6/25/2019	8500				
8/30/2019	6600	6900	6300		4900
3/17/2020	7200	6900	6400		5400
7/13/2020				148	
11/9/2020			7100		
11/10/2020		7100		150	
11/20/2020	7400				6000
3/8/2021					6300
3/9/2021	8800	7800	8100	170	
10/12/2021		6900		170	7000
10/20/2021	7600				
10/21/2021			6600		
4/6/2022		7700	8900	130	5600
4/7/2022	7600				

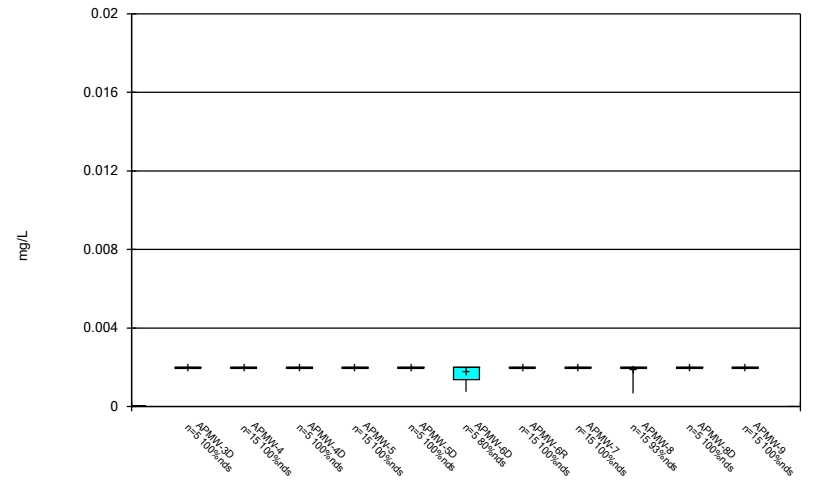
FIGURE B.

Box & Whiskers Plot



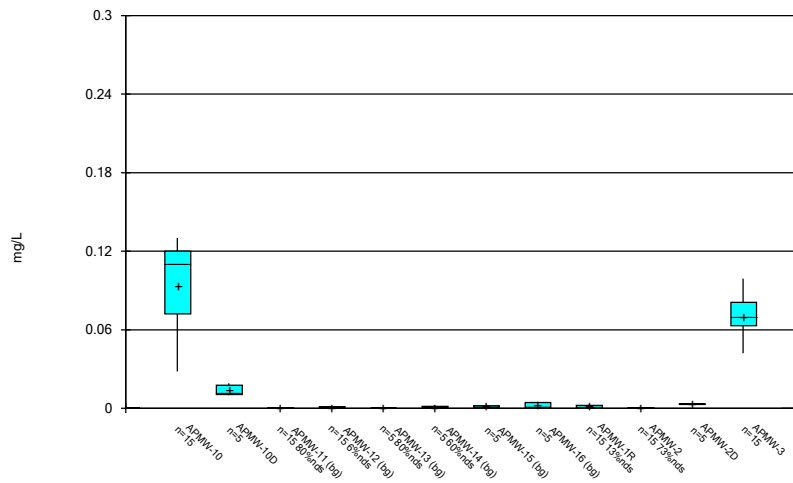
Constituent: Antimony Analysis Run 5/13/2022 1:07 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



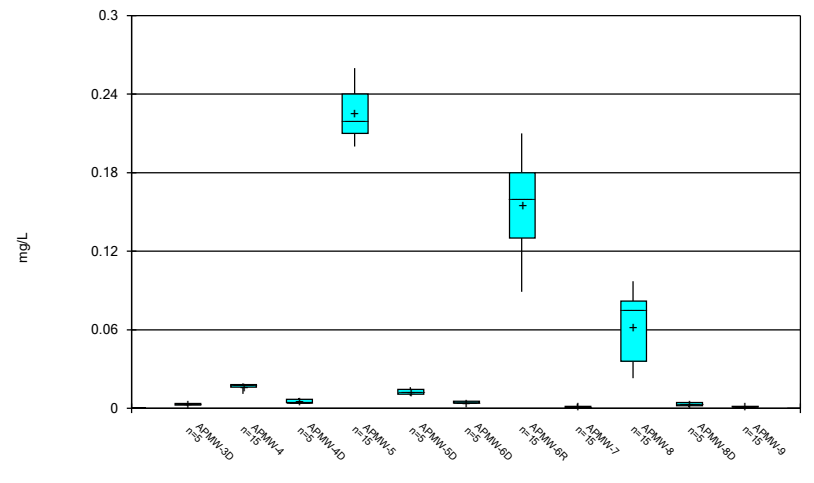
Constituent: Antimony Analysis Run 5/13/2022 1:07 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



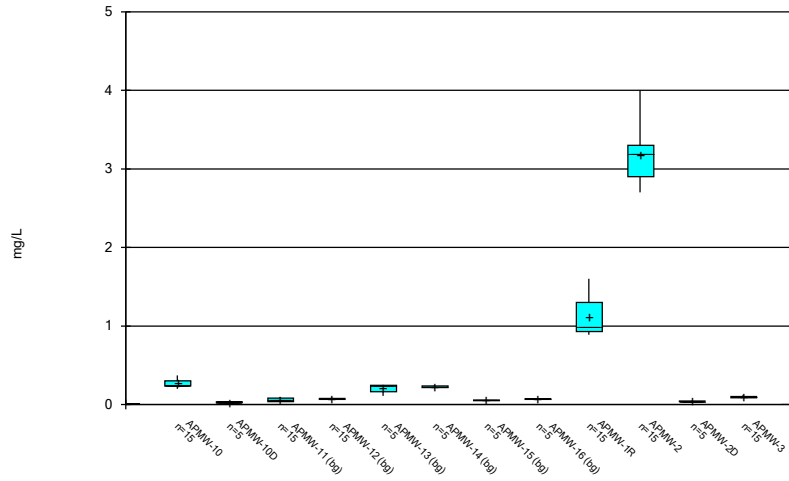
Constituent: Arsenic Analysis Run 5/13/2022 1:07 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



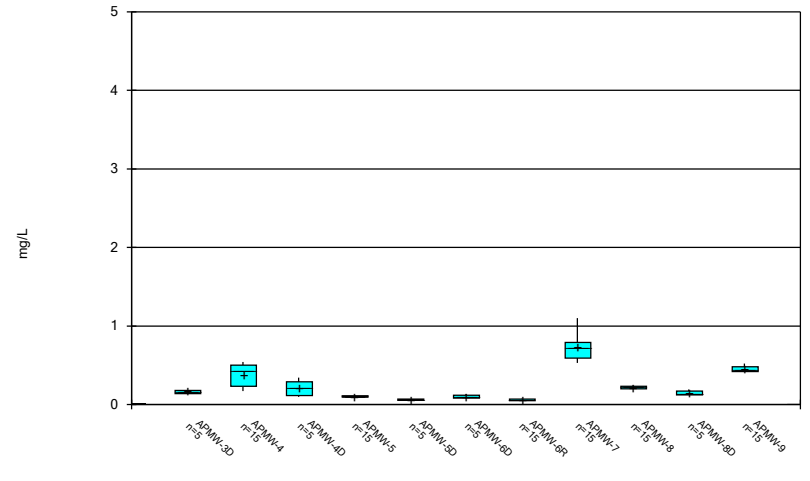
Constituent: Arsenic Analysis Run 5/13/2022 1:07 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



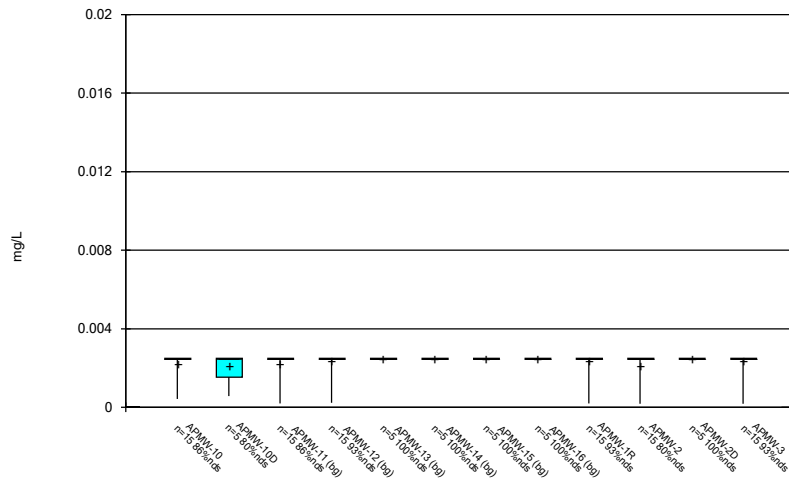
Constituent: Barium Analysis Run 5/13/2022 1:07 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



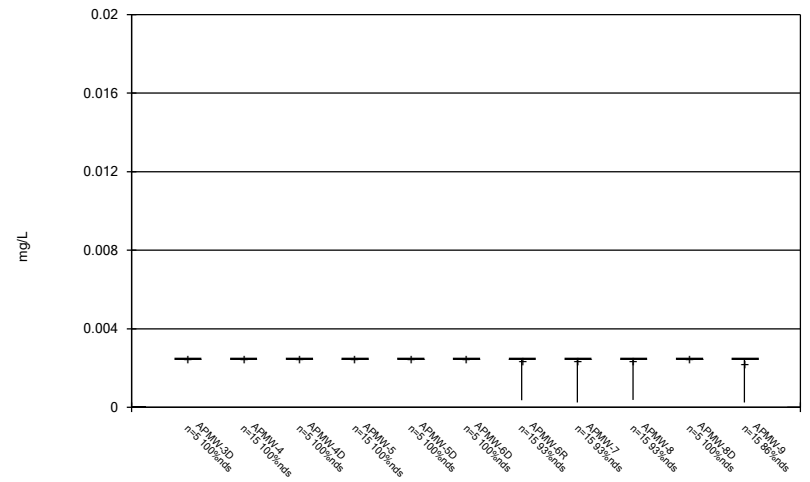
Constituent: Barium Analysis Run 5/13/2022 1:07 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



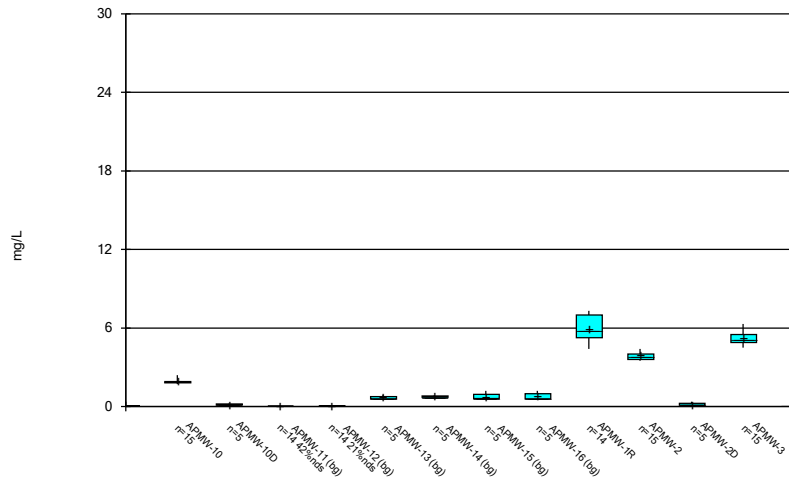
Constituent: Beryllium Analysis Run 5/13/2022 1:07 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



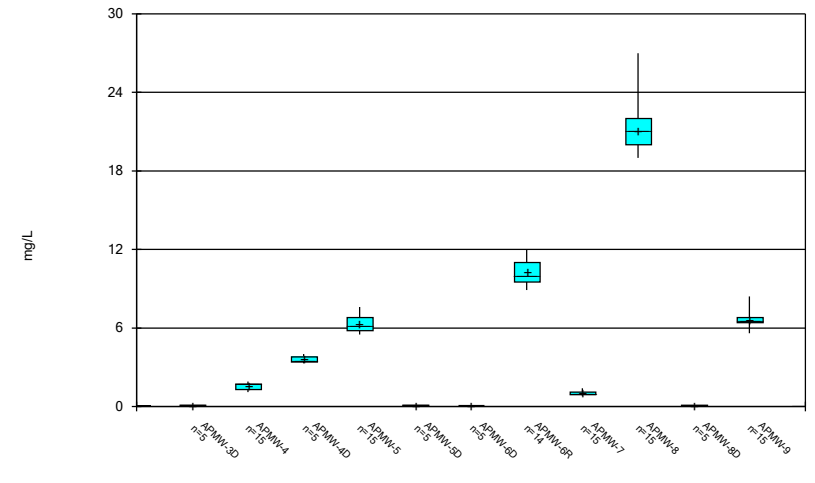
Constituent: Beryllium Analysis Run 5/13/2022 1:07 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



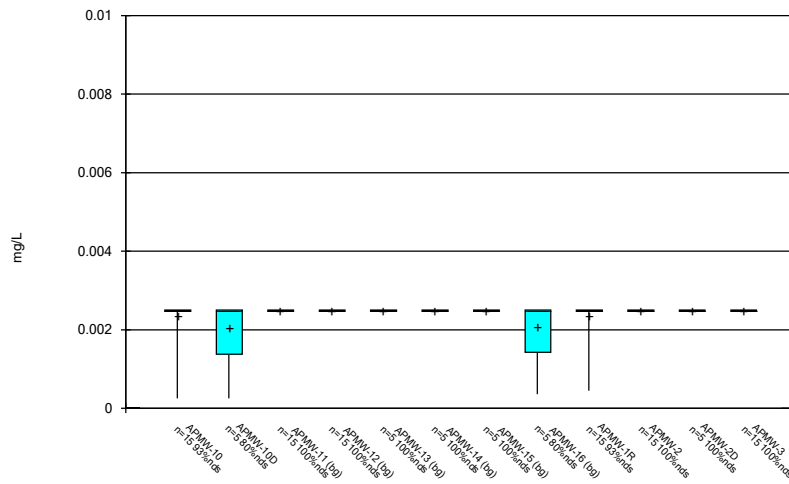
Constituent: Boron Analysis Run 5/13/2022 1:07 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



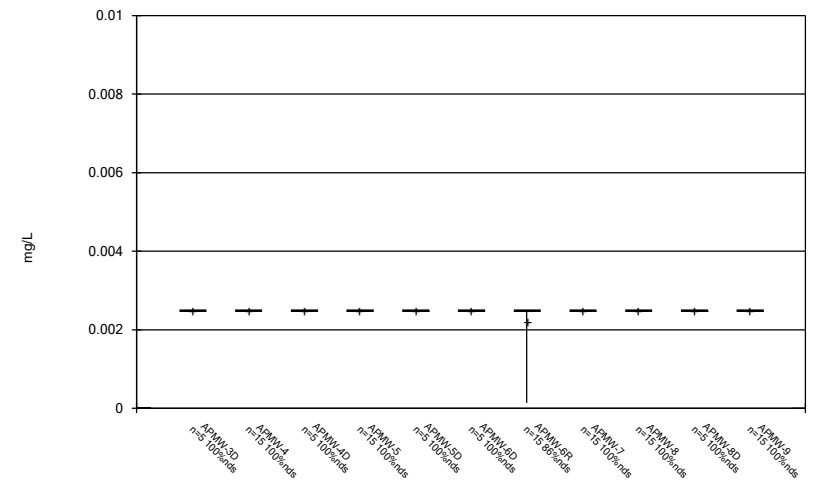
Constituent: Boron Analysis Run 5/13/2022 1:07 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



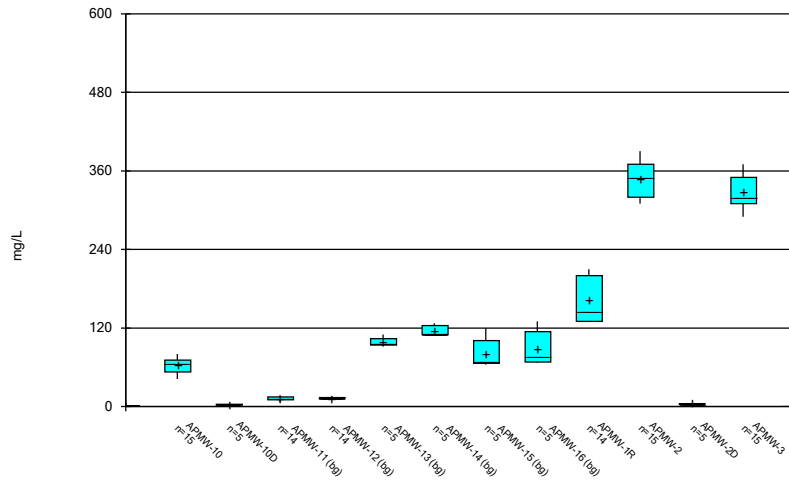
Constituent: Cadmium Analysis Run 5/13/2022 1:07 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



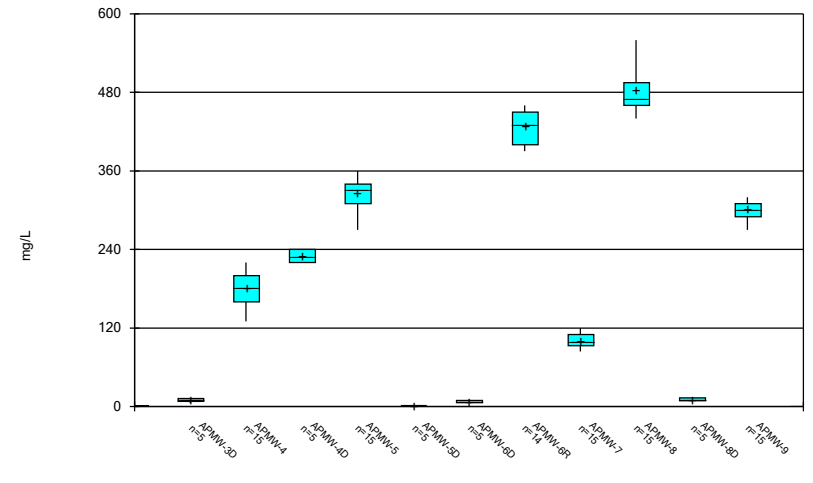
Constituent: Cadmium Analysis Run 5/13/2022 1:07 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



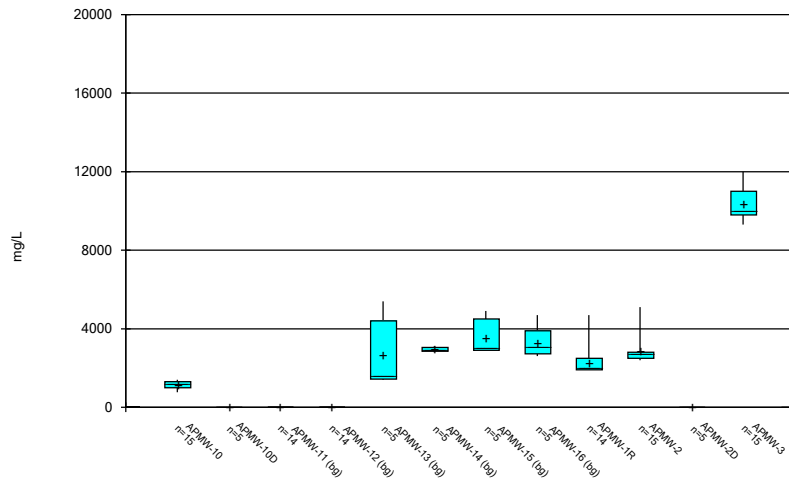
Constituent: Calcium Analysis Run 5/13/2022 1:07 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



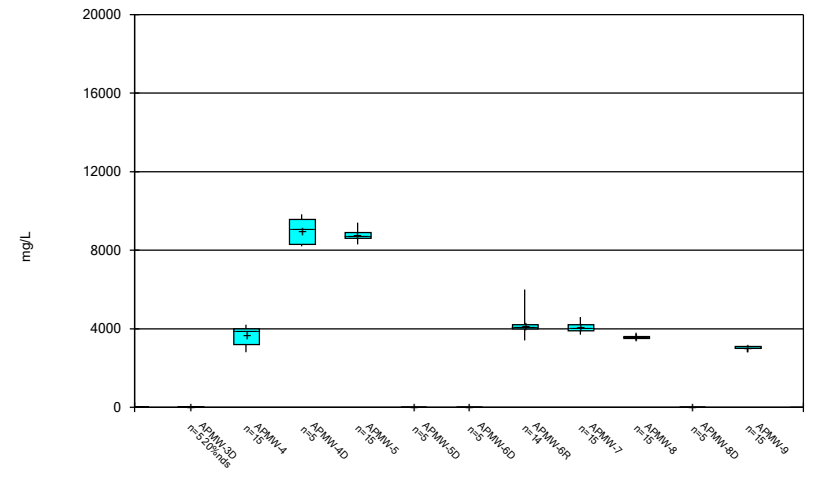
Constituent: Calcium Analysis Run 5/13/2022 1:07 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



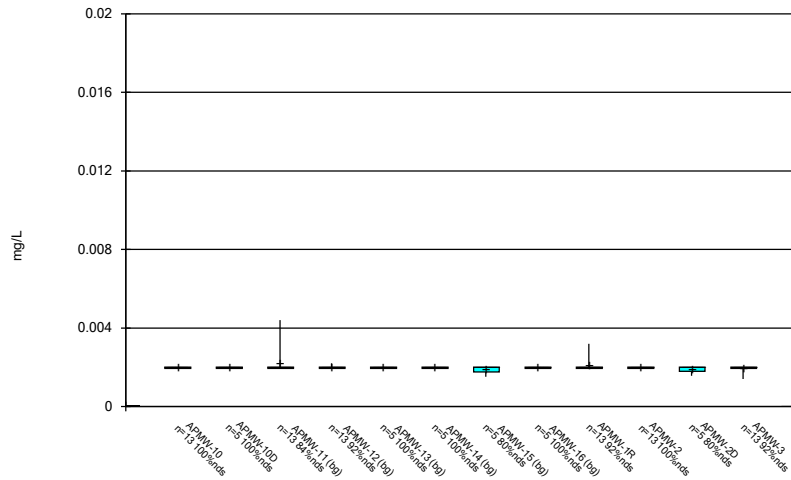
Constituent: Chloride Analysis Run 5/13/2022 1:07 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



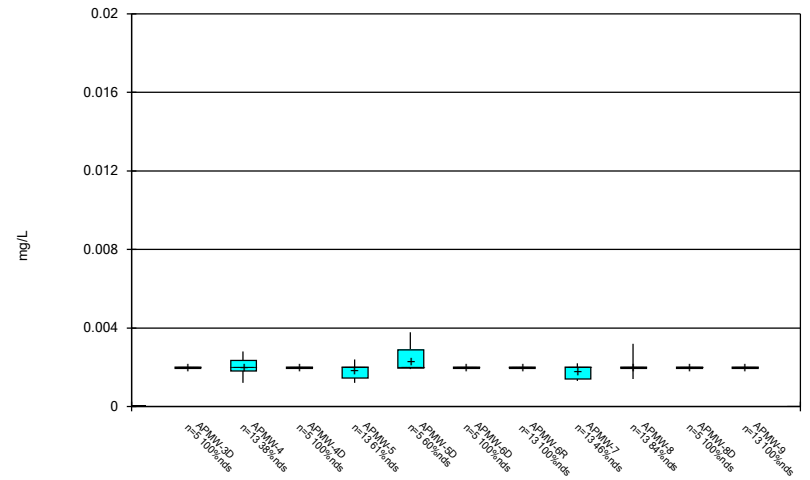
Constituent: Chloride Analysis Run 5/13/2022 1:07 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



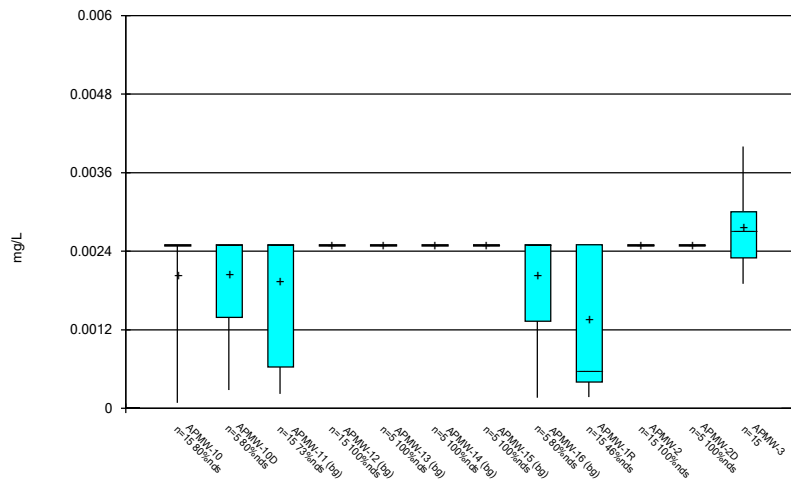
Constituent: Chromium Analysis Run 5/13/2022 1:07 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



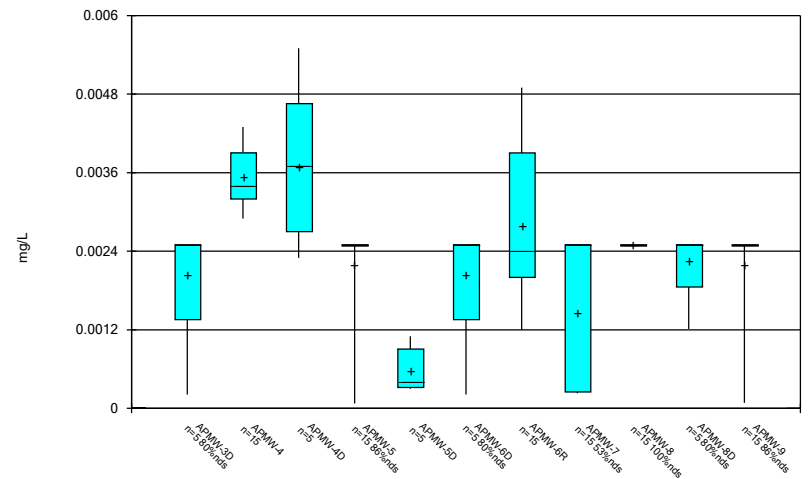
Constituent: Chromium Analysis Run 5/13/2022 1:08 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



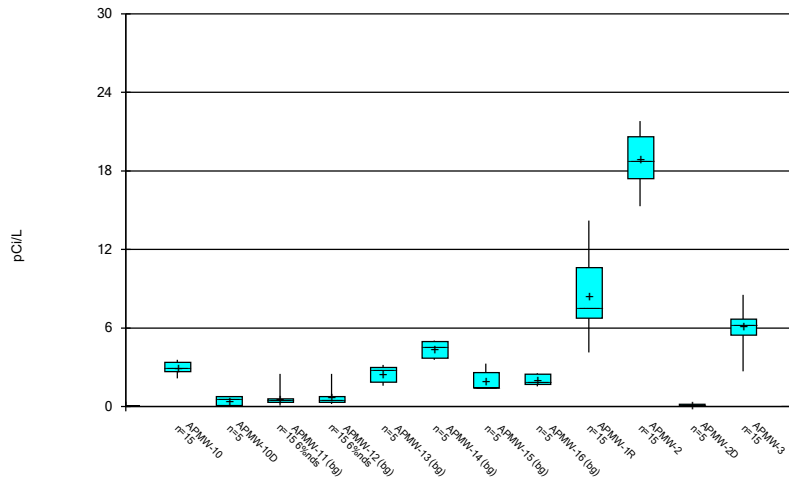
Constituent: Cobalt Analysis Run 5/13/2022 1:08 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



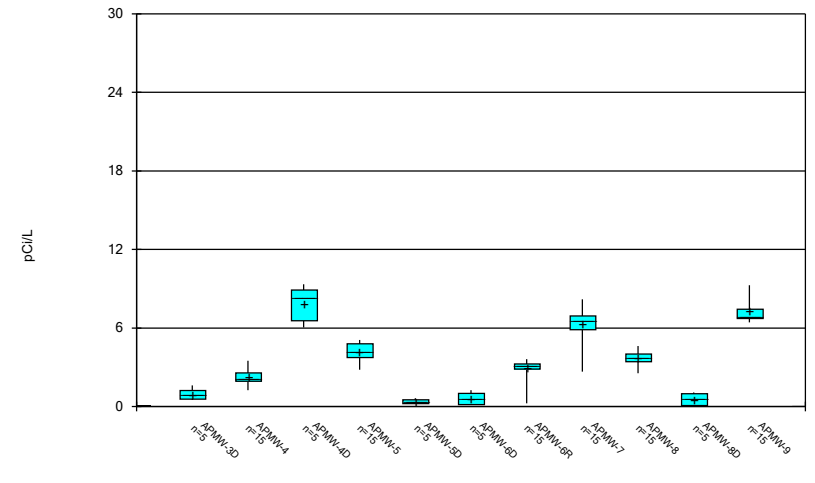
Constituent: Cobalt Analysis Run 5/13/2022 1:08 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



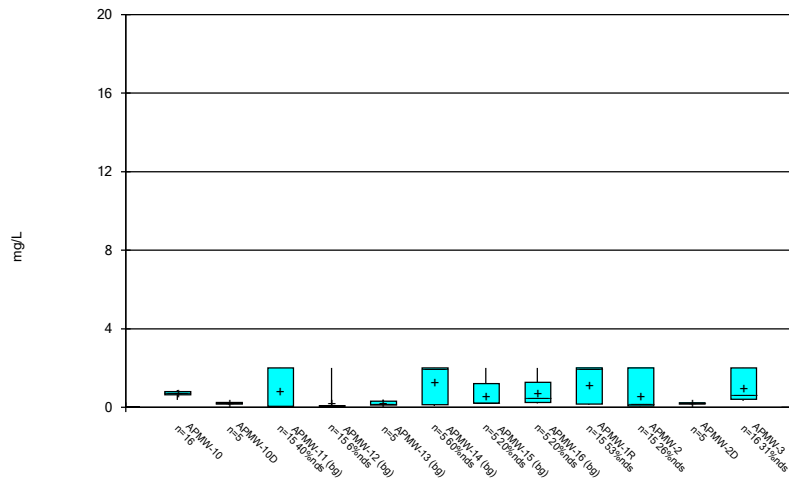
Constituent: Combined Radium 226 + 228 Analysis Run 5/13/2022 1:08 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



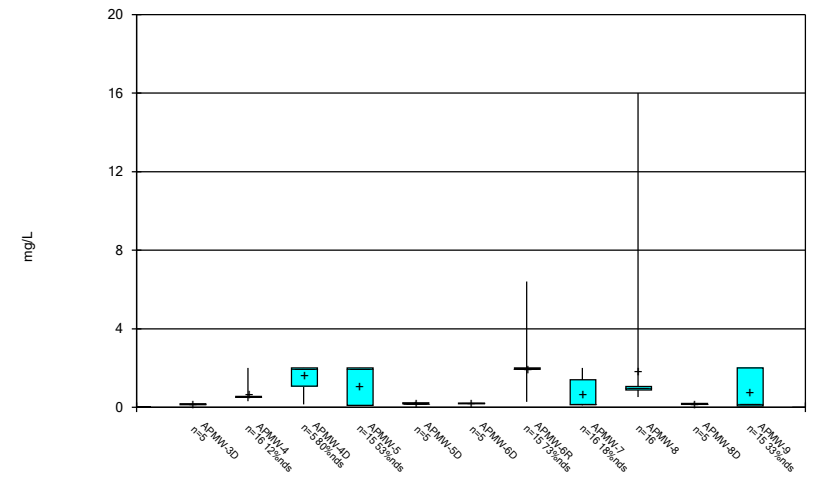
Constituent: Combined Radium 226 + 228 Analysis Run 5/13/2022 1:08 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



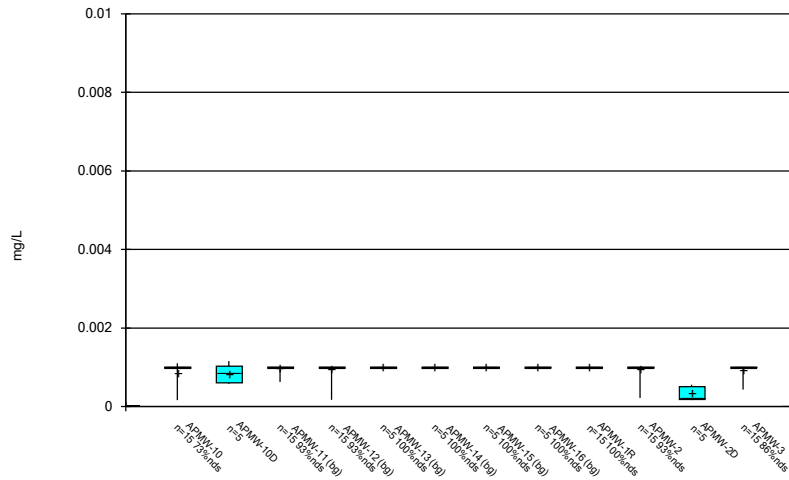
Constituent: Fluoride Analysis Run 5/13/2022 1:08 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



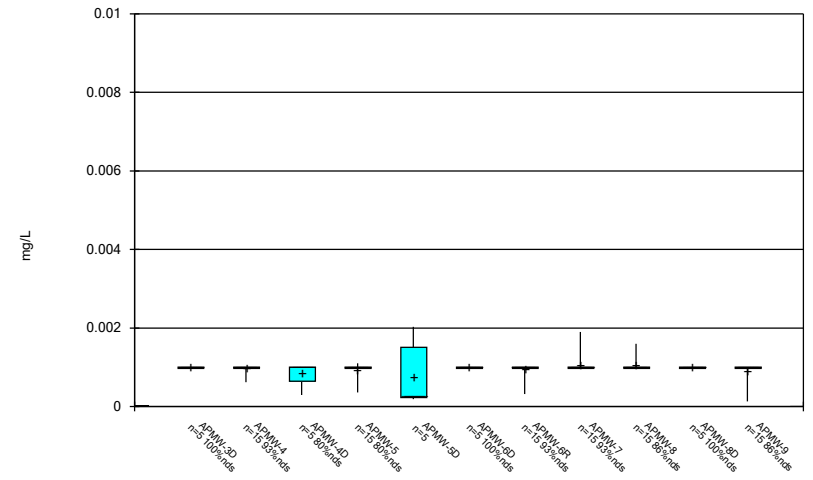
Constituent: Fluoride Analysis Run 5/13/2022 1:08 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



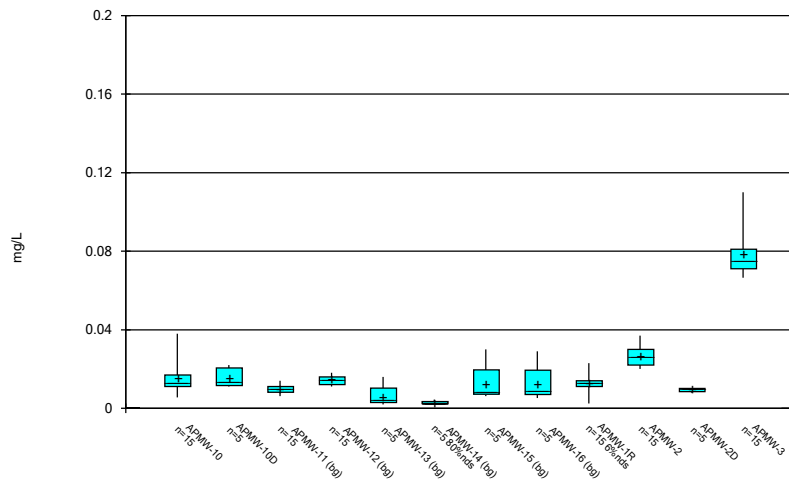
Constituent: Lead Analysis Run 5/13/2022 1:08 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



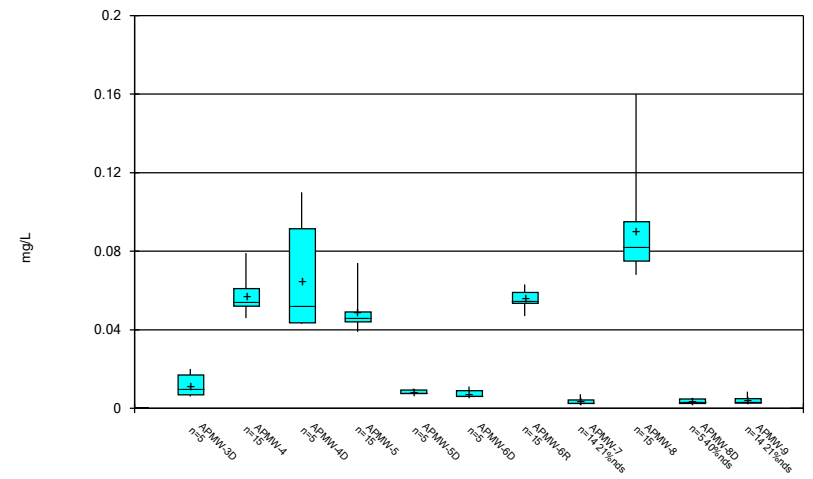
Constituent: Lead Analysis Run 5/13/2022 1:08 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



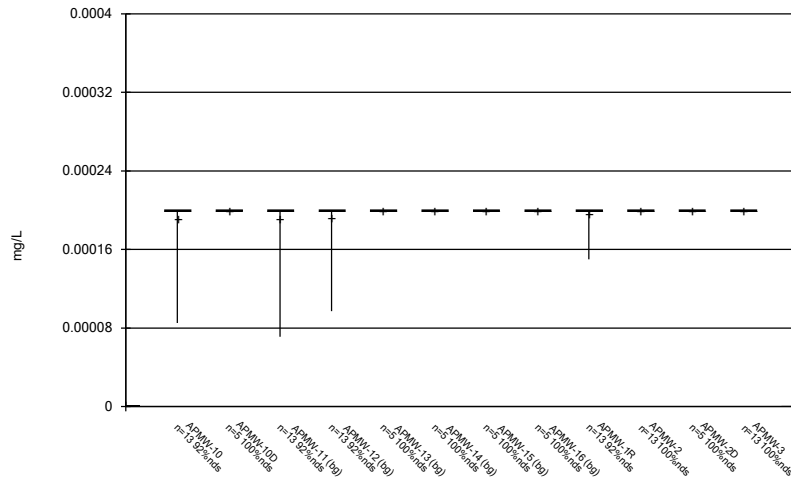
Constituent: Lithium Analysis Run 5/13/2022 1:08 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



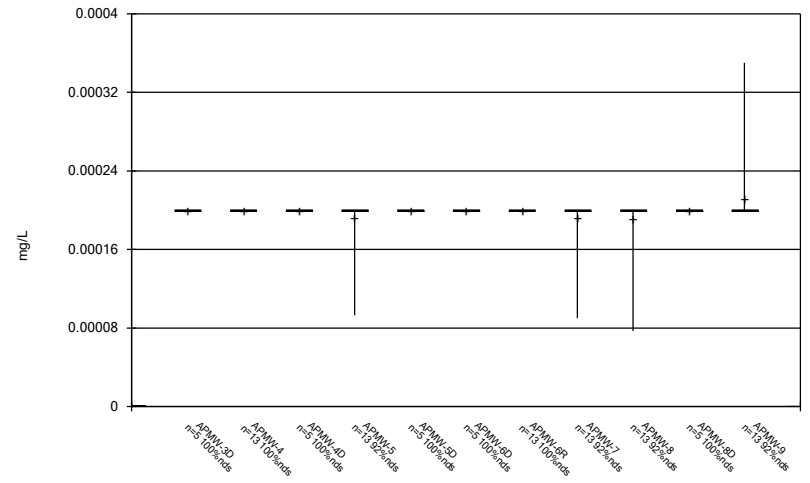
Constituent: Lithium Analysis Run 5/13/2022 1:08 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



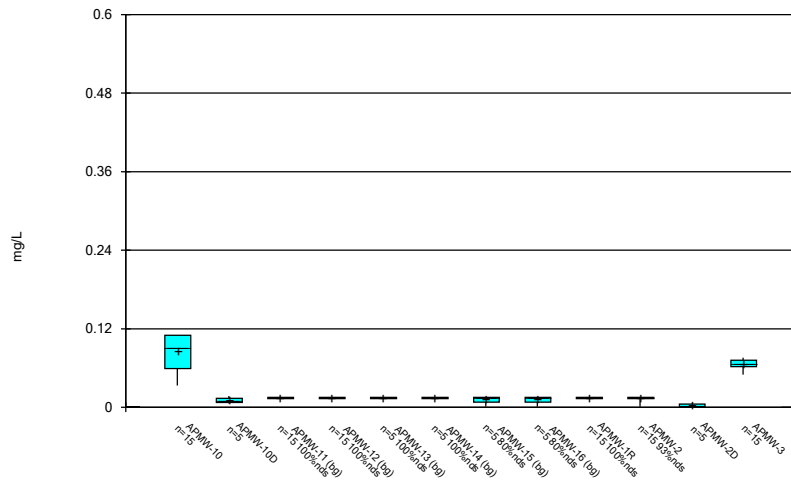
Constituent: Mercury Analysis Run 5/13/2022 1:08 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



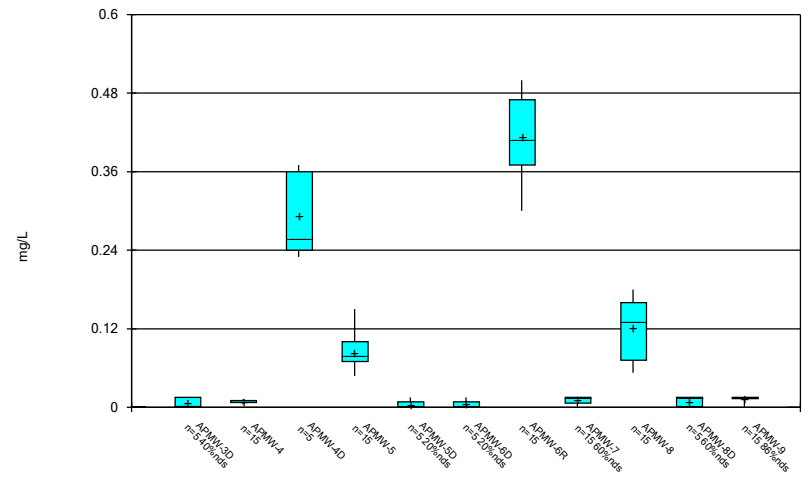
Constituent: Mercury Analysis Run 5/13/2022 1:08 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



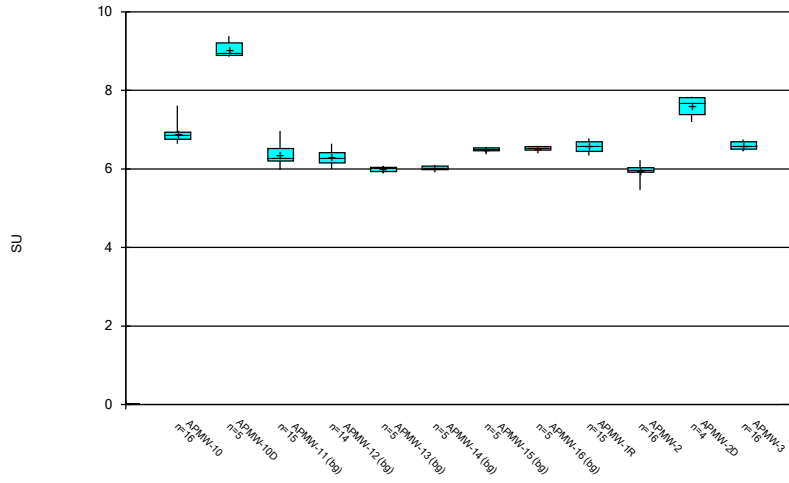
Constituent: Molybdenum Analysis Run 5/13/2022 1:08 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



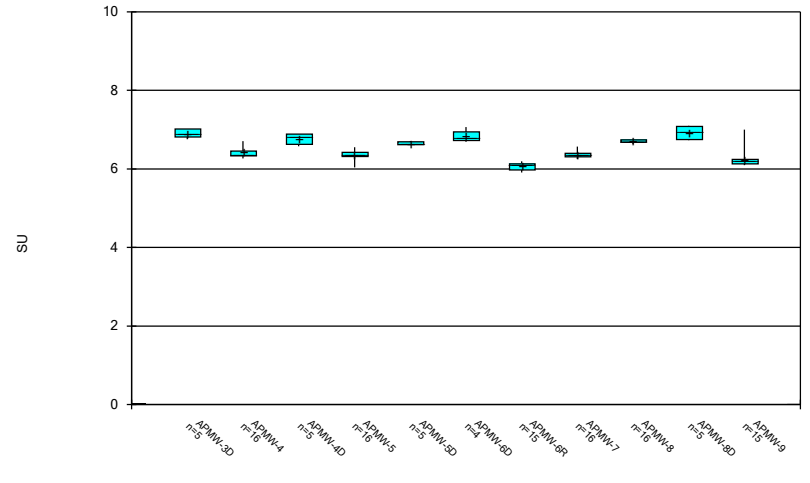
Constituent: Molybdenum Analysis Run 5/13/2022 1:08 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



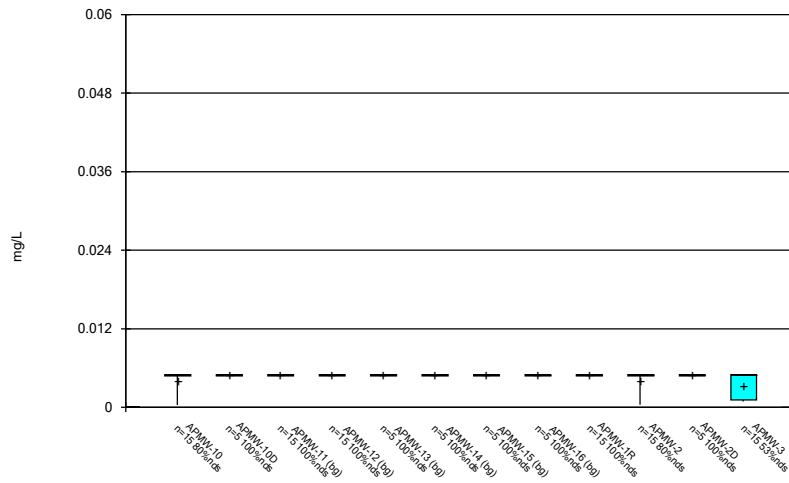
Constituent: pH Analysis Run 5/13/2022 1:08 PM View: Time Series
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



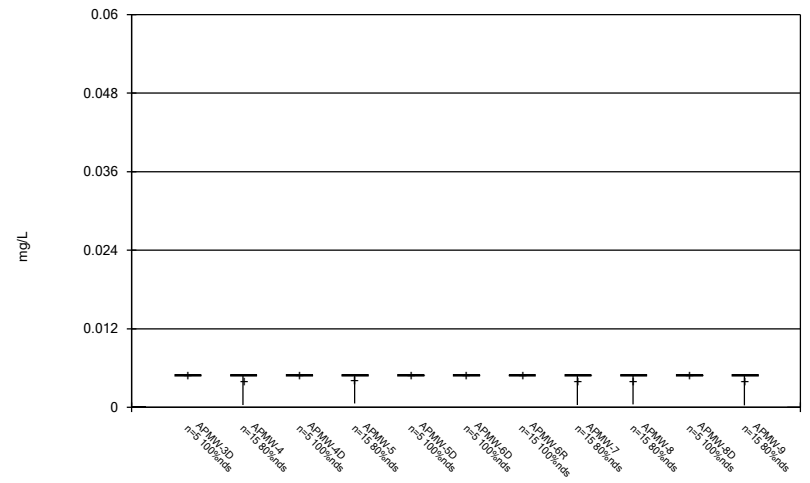
Constituent: pH Analysis Run 5/13/2022 1:08 PM View: Time Series
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



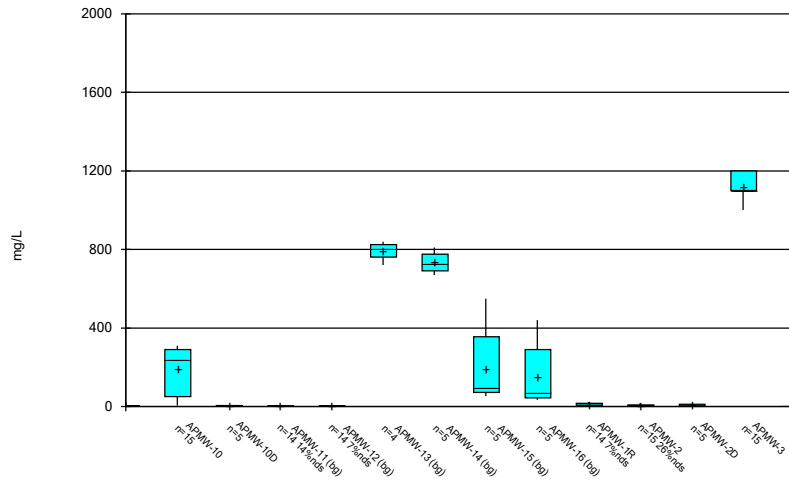
Constituent: Selenium Analysis Run 5/13/2022 1:08 PM View: Time Series
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



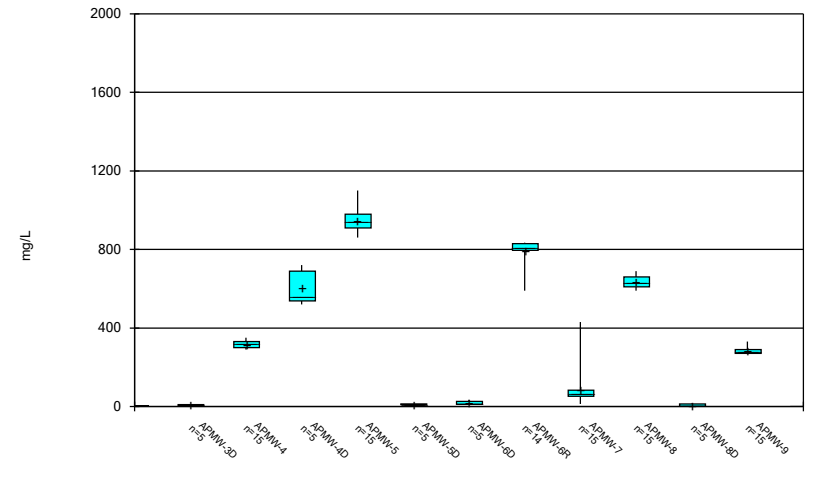
Constituent: Selenium Analysis Run 5/13/2022 1:08 PM View: Time Series
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



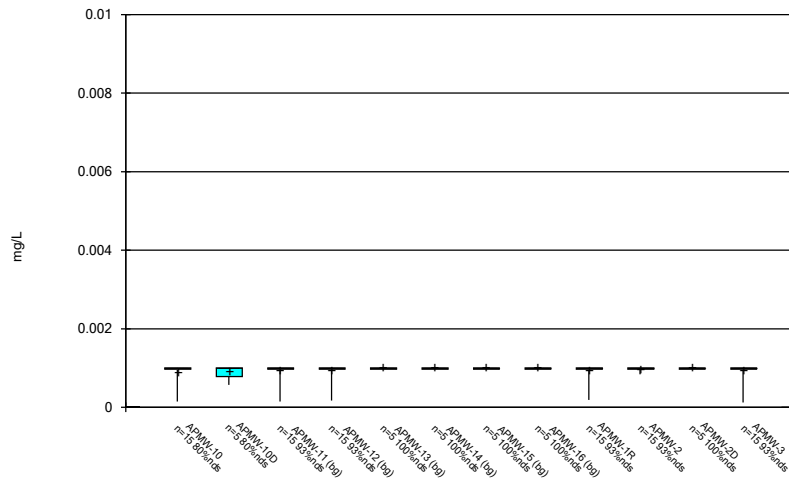
Constituent: Sulfate Analysis Run 5/13/2022 1:08 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



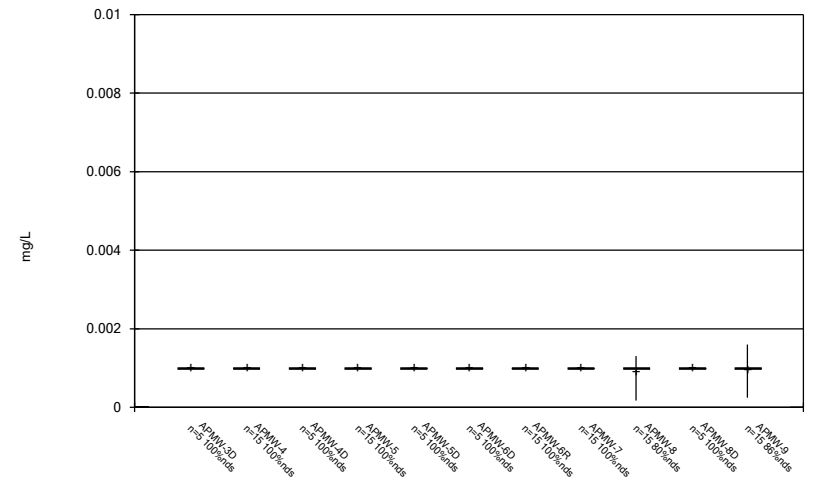
Constituent: Sulfate Analysis Run 5/13/2022 1:08 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



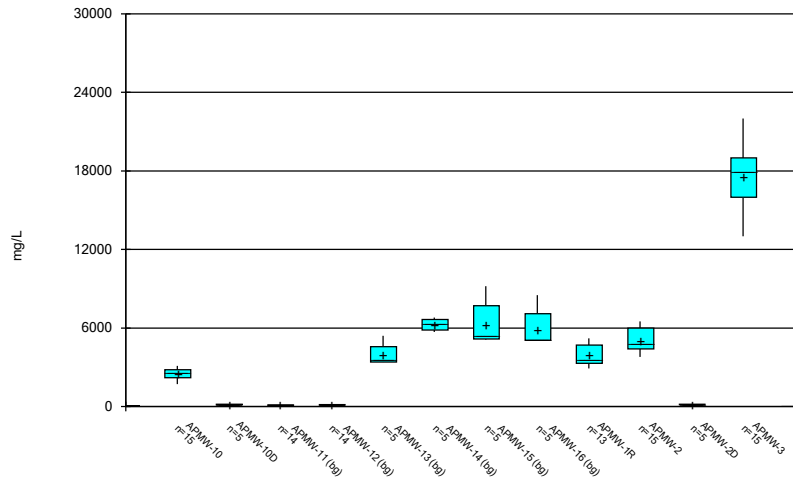
Constituent: Thallium Analysis Run 5/13/2022 1:08 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



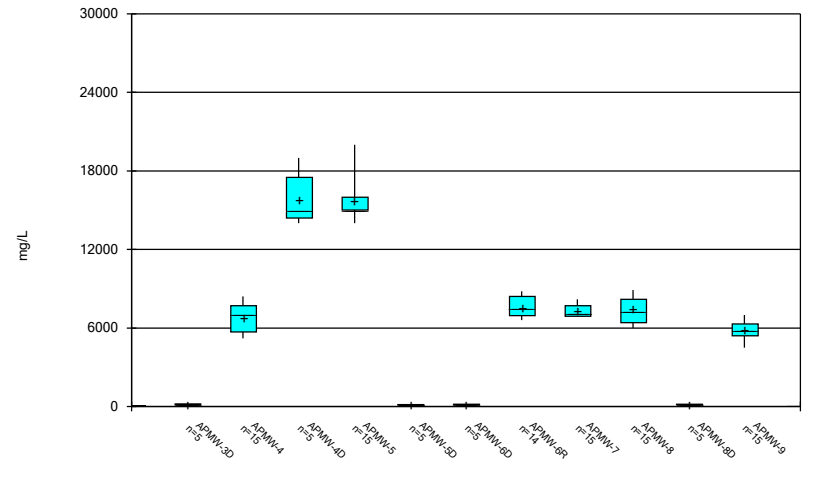
Constituent: Thallium Analysis Run 5/13/2022 1:08 PM View: Time Series
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 5/13/2022 1:08 PM View: Time Series
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 5/13/2022 1:08 PM View: Time Series
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

FIGURE C.

Outlier Summary

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 5/13/2022, 1:09 PM

	APMW-2 Fluoride (mg/L)	APMW-5 Fluoride (mg/L)	APMW-9 Fluoride (mg/L)	APMW-7 Lithium (mg/L)	APMW-9 Lithium (mg/L)	APMW-13 Sulfate (mg/L)
11/1/2018					0.018 (o)	
11/2/2018				0.014 (o)		
12/6/2018		1.4 (o)	0.21 (o)			
12/7/2018	4.3 (o)					
11/4/2020						1700 (o)

FIGURE D.

Interwell Prediction Limits - Significant Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 5/24/2022, 12:23 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)	APMW-10	1.2	n/a	4/5/2022	2.1	Yes	48	n/a	n/a	18.75	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-1R	1.2	n/a	4/4/2022	6.6	Yes	48	n/a	n/a	18.75	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-2	1.2	n/a	4/5/2022	3.7	Yes	48	n/a	n/a	18.75	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-3	1.2	n/a	4/5/2022	6.3	Yes	48	n/a	n/a	18.75	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-5	1.2	n/a	4/6/2022	5.8	Yes	48	n/a	n/a	18.75	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-6R	1.2	n/a	4/7/2022	10	Yes	48	n/a	n/a	18.75	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-7	1.2	n/a	4/6/2022	1.4	Yes	48	n/a	n/a	18.75	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-8	1.2	n/a	4/6/2022	19	Yes	48	n/a	n/a	18.75	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-9	1.2	n/a	4/6/2022	5.9	Yes	48	n/a	n/a	18.75	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-1R	130	n/a	4/4/2022	200	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-2	130	n/a	4/5/2022	380	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-3	130	n/a	4/5/2022	330	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-5	130	n/a	4/6/2022	320	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-6R	130	n/a	4/7/2022	390	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-8	130	n/a	4/6/2022	460	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-9	130	n/a	4/6/2022	300	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-3	5400	n/a	4/5/2022	9300	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-5	5400	n/a	4/6/2022	8400	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-6R	2	n/a	4/7/2022	6.4	Yes	50	n/a	n/a	24	n/a	n/a	0.0007305	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-8	2	n/a	4/6/2022	16	Yes	50	n/a	n/a	24	n/a	n/a	0.0007305	NP Inter (normality) 1 of 2
pH (SU)	APMW-10	6.79	5.821	4/5/2022	7.17	Yes	49	6.305	0.238	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-2	6.79	5.821	4/5/2022	5.46	Yes	49	6.305	0.238	0	None	No	0.0003761	Param Inter 1 of 2
Sulfate (mg/L)	APMW-3	840	n/a	4/5/2022	1100	Yes	47	n/a	n/a	6.383	n/a	n/a	0.0008437	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-5	840	n/a	4/6/2022	910	Yes	47	n/a	n/a	6.383	n/a	n/a	0.0008437	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-3	9200	n/a	4/5/2022	16000	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-5	9200	n/a	4/6/2022	15000	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 5/24/2022, 12:23 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)	APMW-10	1.2	n/a	4/5/2022	2.1	Yes	48	n/a	n/a	18.75	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-1R	1.2	n/a	4/4/2022	6.6	Yes	48	n/a	n/a	18.75	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-2	1.2	n/a	4/5/2022	3.7	Yes	48	n/a	n/a	18.75	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-3	1.2	n/a	4/5/2022	6.3	Yes	48	n/a	n/a	18.75	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-4	1.2	n/a	4/6/2022	1.1	No	48	n/a	n/a	18.75	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-5	1.2	n/a	4/6/2022	5.8	Yes	48	n/a	n/a	18.75	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-6R	1.2	n/a	4/7/2022	10	Yes	48	n/a	n/a	18.75	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-7	1.2	n/a	4/6/2022	1.4	Yes	48	n/a	n/a	18.75	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-8	1.2	n/a	4/6/2022	19	Yes	48	n/a	n/a	18.75	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-9	1.2	n/a	4/6/2022	5.9	Yes	48	n/a	n/a	18.75	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-10	130	n/a	4/5/2022	42	No	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-1R	130	n/a	4/4/2022	200	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-2	130	n/a	4/5/2022	380	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-3	130	n/a	4/5/2022	330	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-4	130	n/a	4/6/2022	130	No	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-5	130	n/a	4/6/2022	320	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-6R	130	n/a	4/7/2022	390	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-7	130	n/a	4/6/2022	110	No	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-8	130	n/a	4/6/2022	460	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-9	130	n/a	4/6/2022	300	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-10	5400	n/a	4/5/2022	760	No	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-1R	5400	n/a	4/4/2022	2500	No	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-2	5400	n/a	4/5/2022	2600	No	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-3	5400	n/a	4/5/2022	9300	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-4	5400	n/a	4/6/2022	2800	No	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-5	5400	n/a	4/6/2022	8400	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-6R	5400	n/a	4/7/2022	3900	No	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-7	5400	n/a	4/6/2022	4200	No	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-8	5400	n/a	4/6/2022	3400	No	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-9	5400	n/a	4/6/2022	2900	No	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-10	2	n/a	4/5/2022	0.82	No	50	n/a	n/a	24	n/a	n/a	0.0007305	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-1R	2	n/a	4/4/2022	0.13J	No	50	n/a	n/a	24	n/a	n/a	0.0007305	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-2	2	n/a	4/5/2022	2ND	No	50	n/a	n/a	24	n/a	n/a	0.0007305	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-3	2	n/a	4/5/2022	2ND	No	50	n/a	n/a	24	n/a	n/a	0.0007305	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-4	2	n/a	4/6/2022	0.36J	No	50	n/a	n/a	24	n/a	n/a	0.0007305	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-5	2	n/a	4/6/2022	2ND	No	50	n/a	n/a	24	n/a	n/a	0.0007305	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-6R	2	n/a	4/7/2022	6.4	Yes	50	n/a	n/a	24	n/a	n/a	0.0007305	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-7	2	n/a	4/6/2022	1.2J	No	50	n/a	n/a	24	n/a	n/a	0.0007305	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-8	2	n/a	4/6/2022	16	Yes	50	n/a	n/a	24	n/a	n/a	0.0007305	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-9	2	n/a	4/6/2022	0.82J	No	50	n/a	n/a	24	n/a	n/a	0.0007305	NP Inter (normality) 1 of 2
pH (SU)	APMW-10	6.79	5.821	4/5/2022	7.17	Yes	49	6.305	0.238	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-1R	6.79	5.821	4/4/2022	6.34	No	49	6.305	0.238	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-2	6.79	5.821	4/5/2022	5.46	Yes	49	6.305	0.238	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-3	6.79	5.821	4/5/2022	6.45	No	49	6.305	0.238	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-4	6.79	5.821	4/6/2022	6.37	No	49	6.305	0.238	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-5	6.79	5.821	4/6/2022	6.16	No	49	6.305	0.238	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-6R	6.79	5.821	4/7/2022	5.91	No	49	6.305	0.238	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-7	6.79	5.821	4/6/2022	6.38	No	49	6.305	0.238	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-8	6.79	5.821	4/6/2022	6.74	No	49	6.305	0.238	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-9	6.79	5.821	4/6/2022	6.13	No	49	6.305	0.238	0	None	No	0.0003761	Param Inter 1 of 2

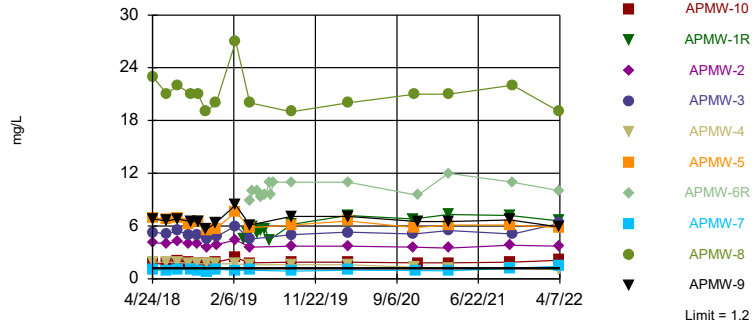
Interwell Prediction Limits - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 5/24/2022, 12:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	APMW-10	840	n/a	4/5/2022	7.5	No	47	n/a	n/a	6.383	n/a	n/a	0.0008437	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-1R	840	n/a	4/4/2022	21	No	47	n/a	n/a	6.383	n/a	n/a	0.0008437	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-2	840	n/a	4/5/2022	11	No	47	n/a	n/a	6.383	n/a	n/a	0.0008437	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-3	840	n/a	4/5/2022	1100	Yes	47	n/a	n/a	6.383	n/a	n/a	0.0008437	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-4	840	n/a	4/6/2022	300	No	47	n/a	n/a	6.383	n/a	n/a	0.0008437	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-5	840	n/a	4/6/2022	910	Yes	47	n/a	n/a	6.383	n/a	n/a	0.0008437	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-6R	840	n/a	4/7/2022	820	No	47	n/a	n/a	6.383	n/a	n/a	0.0008437	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-7	840	n/a	4/6/2022	98	No	47	n/a	n/a	6.383	n/a	n/a	0.0008437	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-8	840	n/a	4/6/2022	610	No	47	n/a	n/a	6.383	n/a	n/a	0.0008437	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-9	840	n/a	4/6/2022	290	No	47	n/a	n/a	6.383	n/a	n/a	0.0008437	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-10	9200	n/a	4/5/2022	1700	No	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-1R	9200	n/a	4/4/2022	4700	No	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-2	9200	n/a	4/5/2022	4400	No	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-3	9200	n/a	4/5/2022	16000	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-4	9200	n/a	4/6/2022	5200	No	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-5	9200	n/a	4/6/2022	15000	Yes	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-6R	9200	n/a	4/7/2022	7600	No	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-7	9200	n/a	4/6/2022	7700	No	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-8	9200	n/a	4/6/2022	8900	No	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-9	9200	n/a	4/6/2022	5600	No	48	n/a	n/a	0	n/a	n/a	0.0008059	NP Inter (normality) 1 of 2

Exceeds Limit: APMW-10, APMW-1R, APMW-2, APMW-3, APMW-5, APMW-6R, APMW-7, APMW-8, APMW-9

Prediction Limit
Interwell Non-parametric

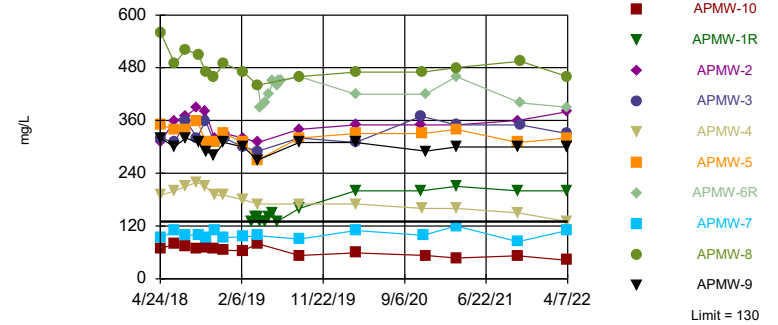


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 48 background values. 18.75% NDs. Annual per-constituent alpha = 0.016. Individual comparison alpha = 0.0008059 (1 of 2). Comparing 10 points to limit.

Constituent: Boron Analysis Run 5/24/2022 12:15 PM View: Appendix III
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Exceeds Limit: APMW-1R, APMW-2, APMW-3, APMW-5, APMW-6R, APMW-8, APMW-9

Prediction Limit
Interwell Non-parametric

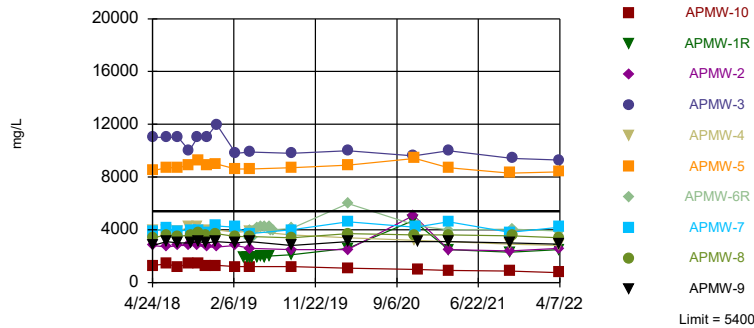


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 48 background values. Annual per-constituent alpha = 0.016. Individual comparison alpha = 0.0008059 (1 of 2). Comparing 10 points to limit.

Constituent: Calcium Analysis Run 5/24/2022 12:15 PM View: Appendix III
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Exceeds Limit: APMW-3, APMW-5

Prediction Limit
Interwell Non-parametric



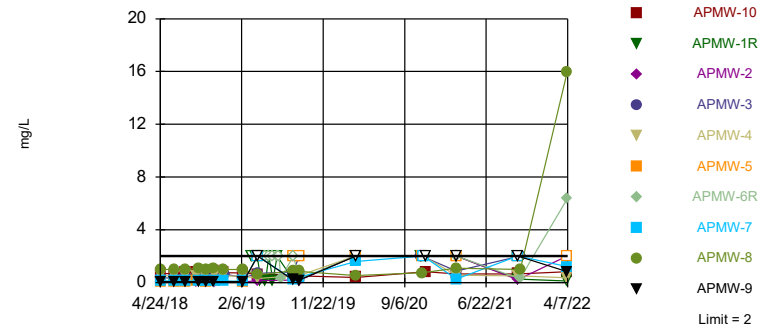
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 48 background values. Annual per-constituent alpha = 0.016. Individual comparison alpha = 0.0008059 (1 of 2). Comparing 10 points to limit.

Constituent: Chloride Analysis Run 5/24/2022 12:15 PM View: Appendix III
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Hollow symbols indicate censored values.

Exceeds Limit: APMW-6R, APMW-8

Prediction Limit
Interwell Non-parametric

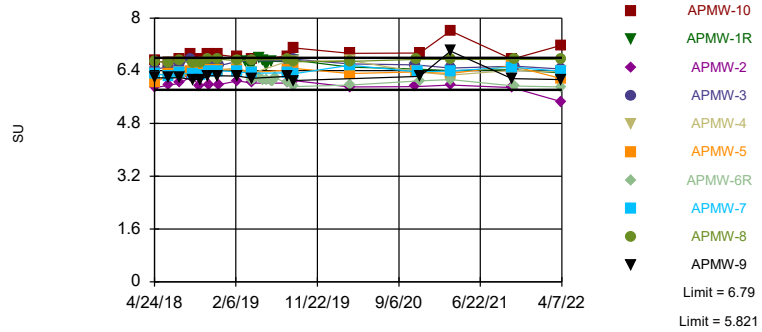


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 50 background values. 24% NDs. Annual per-constituent alpha = 0.01451. Individual comparison alpha = 0.0007305 (1 of 2). Comparing 10 points to limit.

Constituent: Fluoride Analysis Run 5/24/2022 12:15 PM View: Appendix III
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Exceeds Limits: APMW-10, APMW-2

Prediction Limit
Interwell Parametric

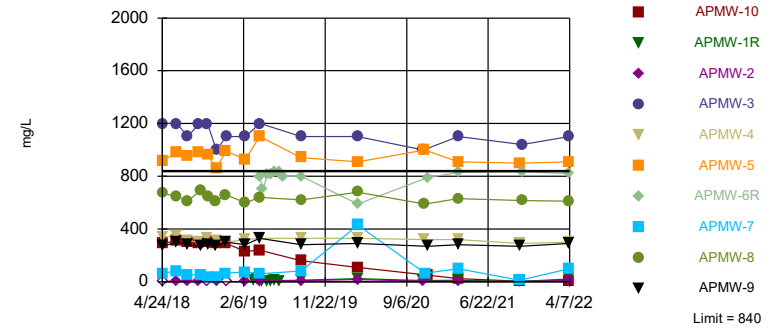


Background Data Summary: Mean=6.305, Std. Dev.=0.238, n=49. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9611, critical = 0.929. Kappa = 2.035 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0003761. Comparing 10 points to limit.

Constituent: pH Analysis Run 5/24/2022 12:15 PM View: Appendix III
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Hollow symbols indicate censored values.
Exceeds Limit: APMW-3, APMW-5

Prediction Limit
Interwell Non-parametric

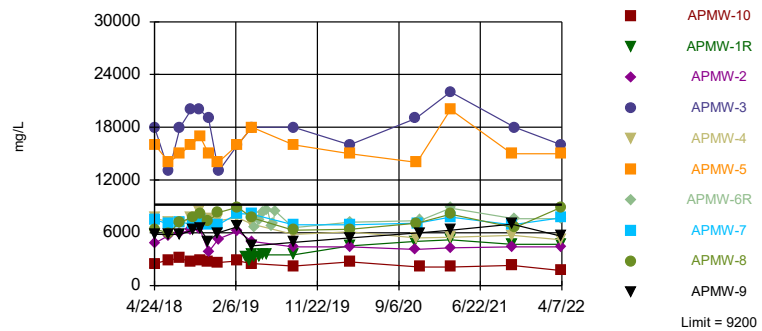


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 47 background values. 6.383% NDs. Annual per-constituent alpha = 0.01674. Individual comparison alpha = 0.0008437 (1 of 2). Comparing 10 points to limit.

Constituent: Sulfate Analysis Run 5/24/2022 12:15 PM View: Appendix III
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Exceeds Limit: APMW-3, APMW-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 48 background values. Annual per-constituent alpha = 0.016. Individual comparison alpha = 0.0008059 (1 of 2). Comparing 10 points to limit.

Constituent: Total Dissolved Solids Analysis Run 5/24/2022 12:15 PM View: Appendix III
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/24/2022 12:23 PM View: Appendix III

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-11 (bg)	APMW-1R	APMW-6R	APMW-15 (bg)	APMW-14 (bg)	APMW-13 (bg)	APMW-16 (bg)
4/24/2018							
4/25/2018							
6/13/2018							
6/14/2018							
7/23/2018							
7/24/2018							
9/1/2018							
9/6/2018							
10/1/2018							
10/2/2018							
11/1/2018							
11/2/2018							
12/6/2018							
12/7/2018							
2/13/2019							
3/16/2019	0.028 (J)	4.5					
3/27/2019	0.027 (JD)	5.2					
4/3/2019	0.089 (D)	5.3					
4/4/2019							
4/5/2019			8.9 (D)				
4/15/2019		5.9	10				
4/16/2019	<0.08						
5/2/2019		5.3	10				
5/3/2019	<0.08						
5/14/2019	<0.08	5.5	9.3				
5/28/2019		5.7					
5/29/2019	0.034 (J)		9.5				
6/12/2019	0.05 (J)	4.4	11				
6/19/2019			9.5				
6/25/2019			11				
8/29/2019	<0.08						
8/30/2019		6.2	11				
3/16/2020		7.2					
3/17/2020	0.057 (J)		11				
7/21/2020				0.609	0.718	0.58	
7/30/2020							0.62
11/3/2020				1.2			
11/4/2020		6.8			0.85	0.88	1.2
11/5/2020							
11/9/2020	<0.08						
11/10/2020							
11/20/2020			9.5				
3/8/2021		7.3		0.59	0.71	0.63	0.6
3/9/2021			12				
3/10/2021	<0.08						
10/11/2021	0.053 (J)						
10/12/2021		7.2					
10/14/2021							
10/15/2021					0.78		0.77
10/20/2021			11	0.65		0.64	
10/21/2021							
4/4/2022	0.11	6.6					

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/24/2022 12:23 PM View: Appendix III
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-11 (bg)	APMW-1R	APMW-6R	APMW-15 (bg)	APMW-14 (bg)	APMW-13 (bg)	APMW-16 (bg)
4/5/2022							
4/6/2022							
4/7/2022			10	0.61	0.71	0.61	0.58

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/24/2022 12:23 PM View: Appendix III
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-11 (bg)	APMW-1R	APMW-6R	APMW-15 (bg)	APMW-14 (bg)	APMW-13 (bg)	APMW-16 (bg)
4/24/2018							
4/25/2018							
6/13/2018							
6/14/2018							
7/23/2018							
7/24/2018							
9/1/2018							
9/6/2018							
10/1/2018							
10/2/2018							
11/1/2018							
11/2/2018							
12/6/2018							
12/7/2018							
2/13/2019							
3/16/2019	17	130					
3/27/2019	16 (D)	140					
4/3/2019	15 (D)	140					
4/4/2019							
4/5/2019			440 (D)				
4/15/2019		130	390				
4/16/2019	13						
5/2/2019		130	400				
5/3/2019	12						
5/14/2019	14	140	420				
5/28/2019		150					
5/29/2019	7		450				
6/12/2019	13	130	440				
6/19/2019			450				
6/25/2019			450				
8/29/2019	9.4						
8/30/2019		160	460				
3/16/2020		200					
3/17/2020	9.8		420				
7/21/2020				81.7	127	97.7	
7/30/2020							99.2
11/3/2020				120			
11/4/2020		200			120	110	130
11/5/2020							
11/9/2020	11						
11/10/2020							
11/20/2020			420				
3/8/2021		210		69	110	92	69
3/9/2021			460				
3/10/2021	12						
10/11/2021	11						
10/12/2021		200					
10/14/2021							
10/15/2021					110		75
10/20/2021			400 (D)	68 (D)		97	
10/21/2021							
4/4/2022	11	200					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/24/2022 12:23 PM View: Appendix III
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-11 (bg)	APMW-1R	APMW-6R	APMW-15 (bg)	APMW-14 (bg)	APMW-13 (bg)	APMW-16 (bg)
4/5/2022							
4/6/2022							
4/7/2022			390	64	110	96	67

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/24/2022 12:23 PM View: Appendix III

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-11 (bg)	APMW-1R	APMW-6R	APMW-15 (bg)	APMW-14 (bg)	APMW-13 (bg)	APMW-16 (bg)
4/24/2018							
4/25/2018							
6/13/2018							
6/14/2018							
7/23/2018							
7/24/2018							
9/1/2018							
9/6/2018							
10/1/2018							
10/2/2018							
11/1/2018							
11/2/2018							
12/6/2018							
12/7/2018							
2/13/2019							
3/16/2019	9.3	1900					
3/27/2019	8.2 (D)	1900					
4/3/2019	8.7 (D)	1900					
4/4/2019							
4/5/2019			4000 (D)				
4/15/2019		1900	3400				
4/16/2019	8.7						
5/2/2019		1900	4100				
5/3/2019	9.3						
5/14/2019	8.8	2000	4200				
5/28/2019		1900					
5/29/2019	8.8		4200				
6/12/2019	8.8	2000	4200				
6/19/2019			4000				
6/25/2019			4000				
8/29/2019	8.1						
8/30/2019		2100	4100				
3/16/2020		2600					
3/17/2020	8.2		6000				
7/21/2020				2910	2920	1470	
7/30/2020							2830
11/3/2020				4900			
11/4/2020		4700			3100	5400	4700
11/5/2020							
11/9/2020	9.1						
11/10/2020							
11/20/2020			4300				
3/8/2021		2500		2900	3000	1600	2600
3/9/2021			4000				
3/10/2021	8.9						
10/11/2021	8.9						
10/12/2021		2300					
10/14/2021							
10/15/2021					2800		3100
10/20/2021			4050 (D)	4100 (D)		3400	
10/21/2021							
4/4/2022	8.4	2500					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/24/2022 12:23 PM View: Appendix III
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-11 (bg)	APMW-1R	APMW-6R	APMW-15 (bg)	APMW-14 (bg)	APMW-13 (bg)	APMW-16 (bg)
4/5/2022							
4/6/2022							
4/7/2022			3900	3000	2900	1400	3100

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/24/2022 12:23 PM View: Appendix III
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-12 (bg)	APMW-1R	APMW-6R	APMW-15 (bg)	APMW-13 (bg)	APMW-14 (bg)	APMW-16 (bg)
4/24/2018							
4/25/2018							
6/13/2018							
6/14/2018							
7/23/2018							
7/24/2018							
9/1/2018							
9/6/2018							
10/1/2018							
10/2/2018							
11/1/2018							
11/2/2018							
12/6/2018							
12/7/2018							
2/13/2019							
3/16/2019	0.041 (J)	<2					
3/27/2019	0.49 (D)	<2					
4/3/2019	0.086 (JD)	<2					
4/4/2019							
4/5/2019			<2 (D)				
4/15/2019		0.14 (J)	<2				
4/16/2019	0.055 (J)						
5/2/2019		0.13 (J)	<2				
5/3/2019	0.058 (J)						
5/14/2019	0.071 (J)	<2	<2				
5/28/2019		0.16 (J)					
5/29/2019	0.042 (J)		<2				
6/12/2019	0.037 (J)	<2	<2				
6/19/2019			<2				
6/25/2019			0.32 (J)				
8/8/2019	0.072 (J)	0.21 (J)					
8/9/2019			<2				
8/29/2019	0.065 (J)						
8/30/2019		0.21 (J)	0.27 (J)				
3/16/2020		<2					
3/17/2020	0.036 (J)		<2				
7/21/2020				0.17	0.09 (J)	0.07 (J)	
7/30/2020							0.19
11/3/2020				<2			
11/4/2020		<2			0.24 (J)	<2	<2
11/5/2020							
11/9/2020							
11/10/2020							
11/20/2020	<2		<2				
3/8/2021		<2		0.41 (J)	0.17 (J)	<2	0.28 (J)
3/9/2021			<2				
3/10/2021	0.052 (J)						
10/11/2021	0.079 (J)						
10/12/2021		0.27 (J)					
10/14/2021							
10/15/2021						0.19 (J)	0.44 (J)
10/20/2021			0.29 (J)	0.25 (J)	0.14 (J)		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/24/2022 12:23 PM View: Appendix III
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-12 (bg)	APMW-1R	APMW-6R	APMW-15 (bg)	APMW-13 (bg)	APMW-14 (bg)	APMW-16 (bg)
10/21/2021							
4/4/2022	0.051 (J)	0.13 (J)					
4/5/2022							
4/6/2022							
4/7/2022			6.4	0.25 (J)	0.39 (J)	<2	0.54 (J)

Prediction Limit

Constituent: pH (SU) Analysis Run 5/24/2022 12:23 PM View: Appendix III

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-1R	APMW-11 (bg)	APMW-6R	APMW-15 (bg)	APMW-13 (bg)	APMW-14 (bg)	APMW-16 (bg)
4/24/2018							
4/25/2018							
6/13/2018							
6/14/2018							
7/23/2018							
7/24/2018							
9/1/2018							
9/6/2018							
10/1/2018							
10/2/2018							
11/1/2018							
11/2/2018							
12/6/2018							
12/7/2018							
2/13/2019							
3/16/2019	6.67	6.97					
3/27/2019	6.59	6.7					
4/3/2019	6.56	6.45					
4/4/2019							
4/5/2019			6.12				
4/15/2019	6.68		6.14				
4/16/2019		6.52					
5/2/2019	6.78		6.19				
5/3/2019		6.37					
5/14/2019	6.7	6.57	6.12				
5/28/2019	6.56						
5/29/2019		6.31	6.11				
6/12/2019	6.69	6.41	6.09				
6/19/2019			6.1				
6/25/2019			6.18				
8/8/2019	6.68	6.29					
8/9/2019			6.03				
8/29/2019		6.2					
8/30/2019	6.72		5.92				
3/16/2020	6.51						
3/17/2020		6.2	5.97				
7/21/2020				6.51	6.01	6.08	
7/30/2020							6.48
11/3/2020				6.51			
11/4/2020	6.45				6.01	6.03	6.58
11/5/2020							
11/9/2020		6.21					
11/10/2020							
11/20/2020			6.09				
3/8/2021	6.4			6.41	5.97	5.99	6.48
3/9/2021			6.13				
3/10/2021		6.29					
10/11/2021		6.13					
10/12/2021	6.43						
10/14/2021							
10/15/2021						5.97	6.55
10/20/2021			5.94	6.54	5.89		

Prediction Limit

Constituent: pH (SU) Analysis Run 5/24/2022 12:23 PM View: Appendix III
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-1R	APMW-11 (bg)	APMW-6R	APMW-15 (bg)	APMW-13 (bg)	APMW-14 (bg)	APMW-16 (bg)
10/21/2021							
4/4/2022	6.34	5.97					
4/5/2022							
4/6/2022							
4/7/2022			5.91	6.53	6.07	6.07	6.55

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/24/2022 12:23 PM View: Appendix III

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-11 (bg)	APMW-1R	APMW-6R	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)
4/24/2018							
4/25/2018							
6/13/2018							
6/14/2018							
7/23/2018							
7/24/2018							
9/1/2018							
9/6/2018							
10/1/2018							
10/2/2018							
11/1/2018							
11/2/2018							
12/6/2018							
12/7/2018							
2/13/2019							
3/16/2019	3.6	14					
3/27/2019	0.81 (JD)	19					
4/3/2019	1.1 (D)	4.6 (J)					
4/4/2019							
4/5/2019			800 (D)				
4/15/2019		8.6	700				
4/16/2019	0.68 (J)						
5/2/2019		6	810				
5/3/2019	1.1						
5/14/2019	1.3	5.8	810				
5/28/2019		9.4					
5/29/2019	2.1		830				
6/12/2019	1.9	8.8	830				
6/19/2019			810				
6/25/2019			800				
8/29/2019	2.3						
8/30/2019		13	800				
3/16/2020		23					
3/17/2020	3.7		590				
7/21/2020				802	713	52.9	
7/30/2020							33.4
11/3/2020						550	
11/4/2020		10		1700 (o)	670		440
11/5/2020							
11/9/2020	0.51 (J)						
11/10/2020							
11/20/2020			790				
3/8/2021		12		720	740	97	72
3/9/2021			830				
3/10/2021	<5						
10/11/2021	<5						
10/12/2021		<5					
10/14/2021							
10/15/2021					730		55
10/20/2021			835 (D)	840		91.5 (D)	
10/21/2021							
4/4/2022	0.91 (J)	21					

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/24/2022 12:23 PM View: Appendix III
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-11 (bg)	APMW-1R	APMW-6R	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)
4/5/2022							
4/6/2022							
4/7/2022			820	810	810	160	140

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/24/2022 12:23 PM View: Appendix III
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-12 (bg)	APMW-11 (bg)	APMW-6R	APMW-15 (bg)	APMW-14 (bg)	APMW-13 (bg)	APMW-16 (bg)
4/24/2018							
4/25/2018							
6/13/2018							
6/14/2018							
7/23/2018							
7/24/2018							
9/1/2018							
9/6/2018							
10/1/2018							
10/2/2018							
11/1/2018							
11/2/2018							
12/6/2018							
12/7/2018							
2/13/2019							
3/16/2019	150	120					
3/27/2019	110 (D)	63 (D)					
4/3/2019	150 (D)	100 (D)					
4/4/2019							
4/5/2019			7800 (D)				
4/15/2019			6600				
4/16/2019	150	110					
5/2/2019			7400				
5/3/2019	130	91					
5/14/2019	150	120	8300				
5/28/2019							
5/29/2019	180	140	8600				
6/12/2019	130	100	6800				
6/19/2019			7100				
6/25/2019			8500				
8/29/2019	110	73					
8/30/2019			6600				
3/16/2020							
3/17/2020	120	95	7200				
7/21/2020				5400	6350	3760	
7/30/2020							5020
11/3/2020				9200			
11/4/2020					6500	5400	8500
11/5/2020							
11/9/2020		68					
11/10/2020							
11/20/2020	160		7400				
3/8/2021				6200	6800	3600	5100
3/9/2021			8800				
3/10/2021	140	89					
10/11/2021	120	80					
10/12/2021							
10/14/2021							
10/15/2021					5700		5700
10/20/2021			7600	5200		3400	
10/21/2021							
4/4/2022	120	78					

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/24/2022 12:23 PM View: Appendix III
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-12 (bg)	APMW-11 (bg)	APMW-6R	APMW-15 (bg)	APMW-14 (bg)	APMW-13 (bg)	APMW-16 (bg)
4/5/2022							
4/6/2022							
4/7/2022			7600	5100	6000	3400	5100

FIGURE E.

Appendix III Trend Test - Significant Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 5/18/2022, 3:47 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	APMW-1R	0.9895	57	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-1R	32.82	56	48	Yes	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-3	-380.6	-59	-53	Yes	15	0	n/a	n/a	0.01	NP
pH (SU)	APMW-10	0.1099	59	58	Yes	16	0	n/a	n/a	0.01	NP
pH (SU)	APMW-11 (bg)	-0.2411	-81	-53	Yes	15	0	n/a	n/a	0.01	NP

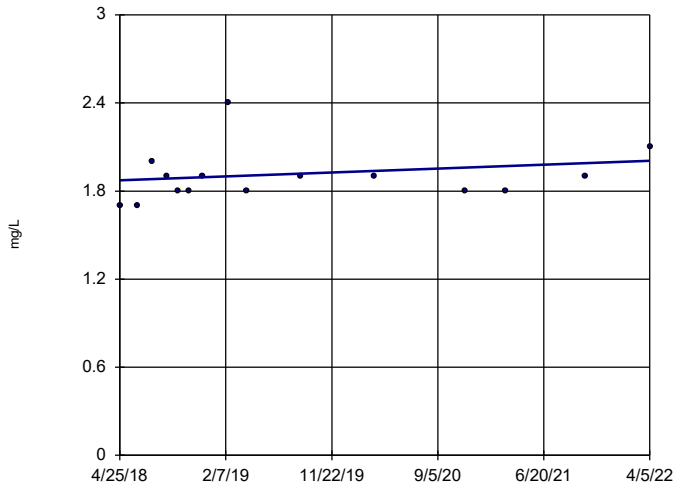
Appendix III Trend Test - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 5/18/2022, 3:47 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	APMW-10	0.03392	26	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-11 (bg)	0.009847	39	48	No	14	42.86	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-12 (bg)	0.01619	48	48	No	14	21.43	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-13 (bg)	-0.001165	0	12	No	5	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-14 (bg)	-0.008684	-3	-12	No	5	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-15 (bg)	-0.01478	0	12	No	5	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-16 (bg)	-0.02837	-4	-12	No	5	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-1R	0.9895	57	48	Yes	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-2	-0.1669	-45	-53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-3	0.0843	17	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-5	-0.2101	-32	-53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-6R	0.5739	35	48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-7	0.01966	8	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-8	-0.3802	-24	-53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-9	-0.04097	-15	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-11 (bg)	-1.964	-46	-48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-12 (bg)	-0.3883	-37	-48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-13 (bg)	-1.576	-4	-12	No	5	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-14 (bg)	-10.25	-7	-12	No	5	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-15 (bg)	-10.65	-8	-12	No	5	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-16 (bg)	-19.53	-6	-12	No	5	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-1R	32.82	56	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-2	8.43	16	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-3	0	10	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-5	-5.244	-26	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-6R	0	5	48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-8	-10.99	-35	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-9	-3.506	-25	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-11 (bg)	0	0	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-12 (bg)	0	3	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-13 (bg)	-112.8	-2	-12	No	5	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-14 (bg)	-94.76	-4	-12	No	5	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-15 (bg)	18.35	0	12	No	5	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-16 (bg)	79.99	1	12	No	5	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-3	-380.6	-59	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-5	0	-9	-53	No	15	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-11 (bg)	0	3	53	No	15	40	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-12 (bg)	-0.002395	-9	-53	No	15	6.667	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-13 (bg)	0.1162	4	12	No	5	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-14 (bg)	0.04856	3	12	No	5	60	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-15 (bg)	-0.07392	-1	-12	No	5	20	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-16 (bg)	0.2069	4	12	No	5	20	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-6R	0	-12	-53	No	15	73.33	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-8	-0.03095	-18	-58	No	16	0	n/a	n/a	0.01	NP
pH (SU)	APMW-10	0.1099	59	58	Yes	16	0	n/a	n/a	0.01	NP
pH (SU)	APMW-11 (bg)	-0.2411	-81	-53	Yes	15	0	n/a	n/a	0.01	NP
pH (SU)	APMW-12 (bg)	-0.1256	-42	-48	No	14	0	n/a	n/a	0.01	NP
pH (SU)	APMW-13 (bg)	-0.03174	-1	-12	No	5	0	n/a	n/a	0.01	NP
pH (SU)	APMW-14 (bg)	-0.04825	-4	-12	No	5	0	n/a	n/a	0.01	NP
pH (SU)	APMW-15 (bg)	0.01286	3	12	No	5	0	n/a	n/a	0.01	NP
pH (SU)	APMW-16 (bg)	0.02074	2	12	No	5	0	n/a	n/a	0.01	NP
pH (SU)	APMW-2	-0.02567	-23	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-11 (bg)	-0.09467	-13	-48	No	14	14.29	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-12 (bg)	-0.252	-21	-48	No	14	7.143	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-13 (bg)	17.54	2	8	No	4	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-14 (bg)	60.06	6	12	No	5	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-15 (bg)	44.56	2	12	No	5	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-16 (bg)	40.34	2	12	No	5	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-3	-25.31	-39	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-5	-10.8	-21	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-11 (bg)	-8.295	-29	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-12 (bg)	-4.092	-16	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-13 (bg)	-271	-7	-12	No	5	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-14 (bg)	-278	-2	-12	No	5	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-15 (bg)	-616.2	-6	-12	No	5	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-16 (bg)	23.7	1	12	No	5	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-3	0	3	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-5	0	2	53	No	15	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

APMW-10

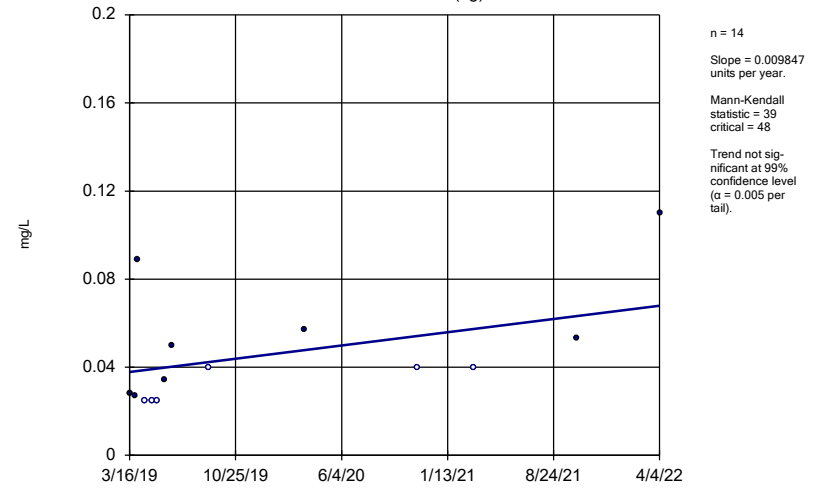


Constituent: Boron Analysis Run 5/18/2022 3:44 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Hollow symbols indicate censored values.

Sen's Slope Estimator

APMW-11 (bg)

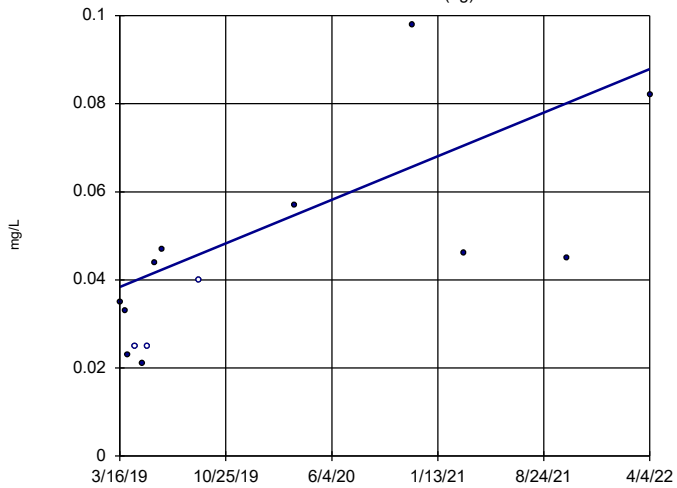


Constituent: Boron Analysis Run 5/18/2022 3:44 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Hollow symbols indicate censored values.

Sen's Slope Estimator

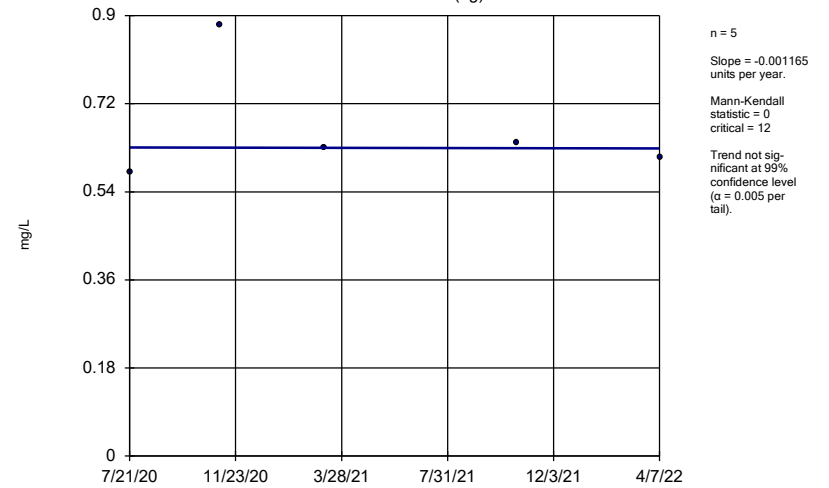
APMW-12 (bg)



Constituent: Boron Analysis Run 5/18/2022 3:44 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

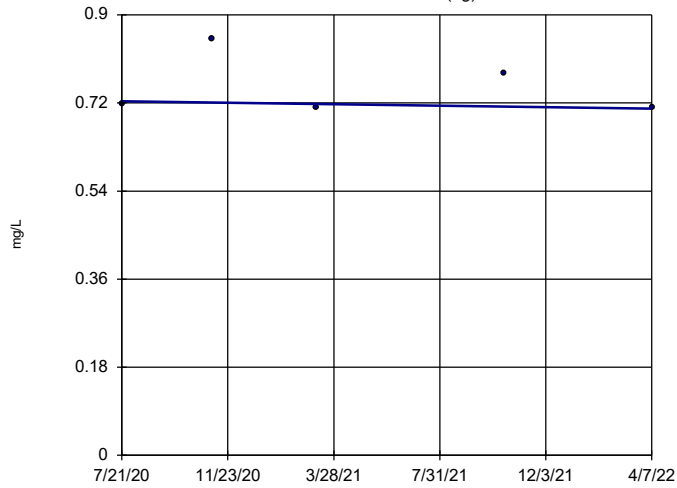
APMW-13 (bg)



Constituent: Boron Analysis Run 5/18/2022 3:44 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-14 (bg)

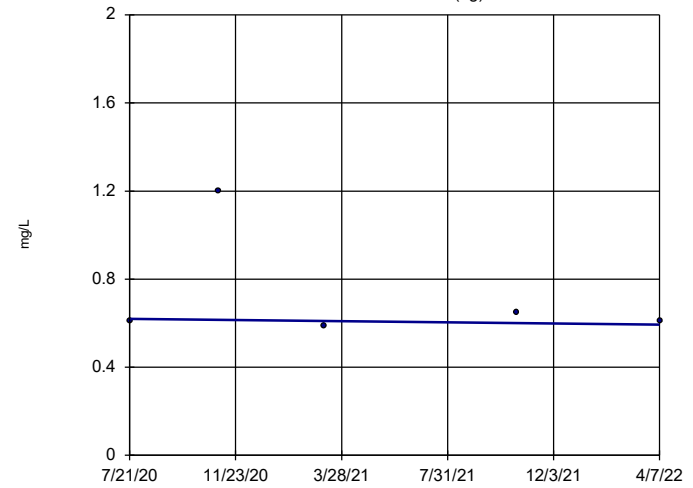


n = 5
 Slope = -0.008684 units per year.
 Mann-Kendall statistic = -3
 critical = -12
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/18/2022 3:44 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-15 (bg)

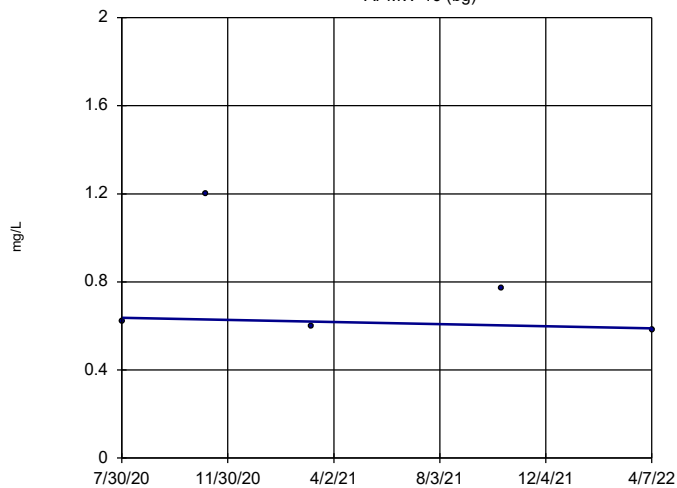


n = 5
 Slope = -0.01478 units per year.
 Mann-Kendall statistic = 0
 critical = 12
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/18/2022 3:44 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-16 (bg)

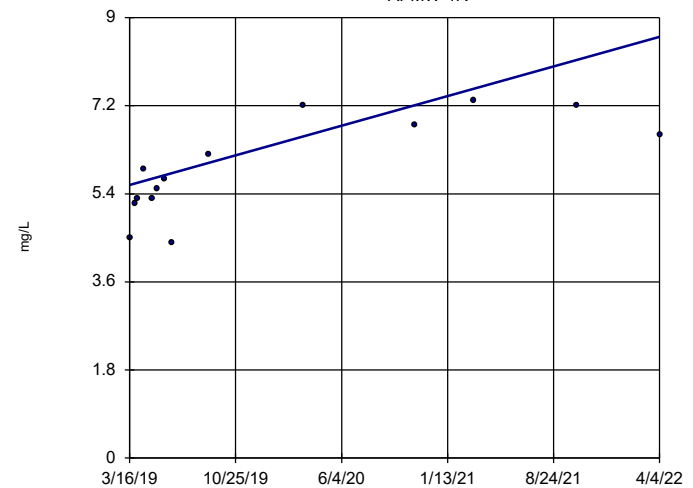


n = 5
 Slope = -0.02837 units per year.
 Mann-Kendall statistic = -4
 critical = -12
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/18/2022 3:44 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-1R

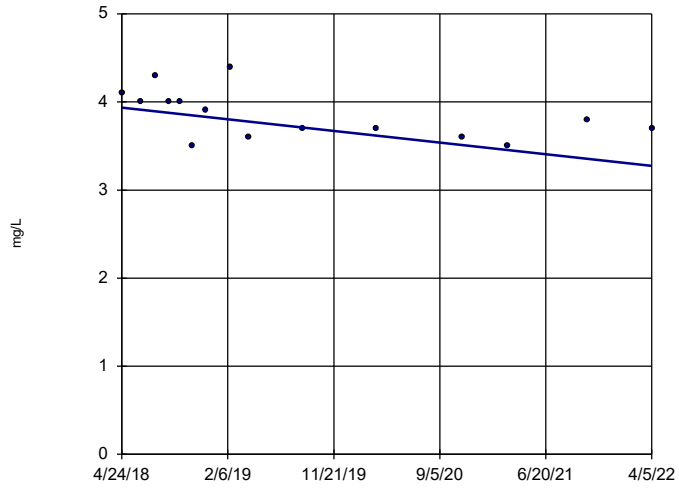


n = 14
 Slope = 0.9895 units per year.
 Mann-Kendall statistic = 57
 critical = 48
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/18/2022 3:44 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-2

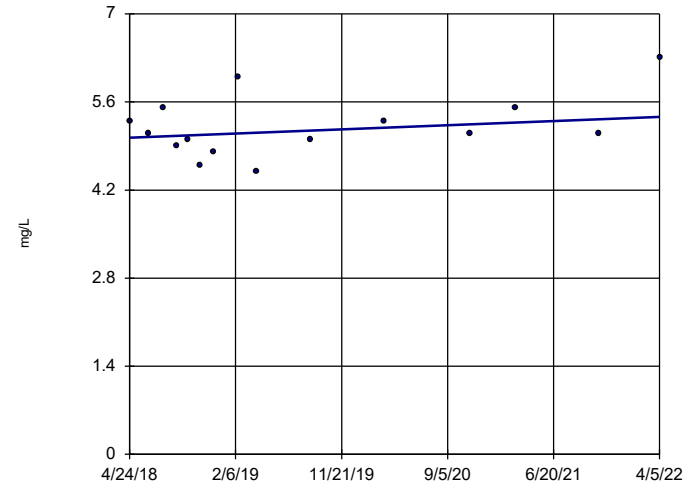


n = 15
 Slope = -0.1669 units per year.
 Mann-Kendall statistic = -45
 critical = -53
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/18/2022 3:44 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-3

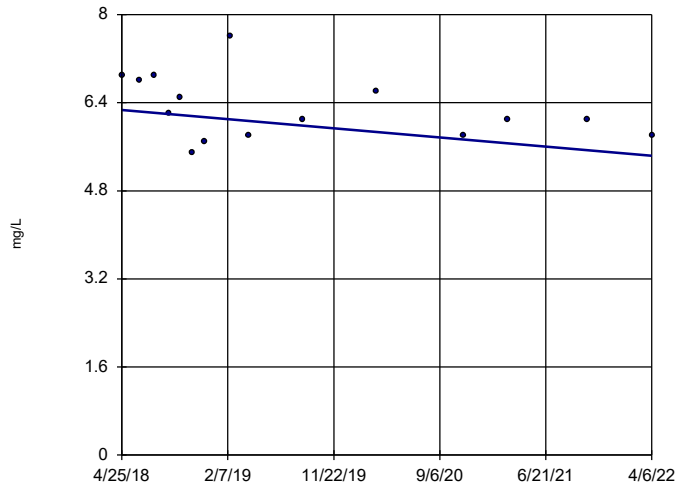


n = 15
 Slope = 0.0843 units per year.
 Mann-Kendall statistic = 17
 critical = 53
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/18/2022 3:44 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-5

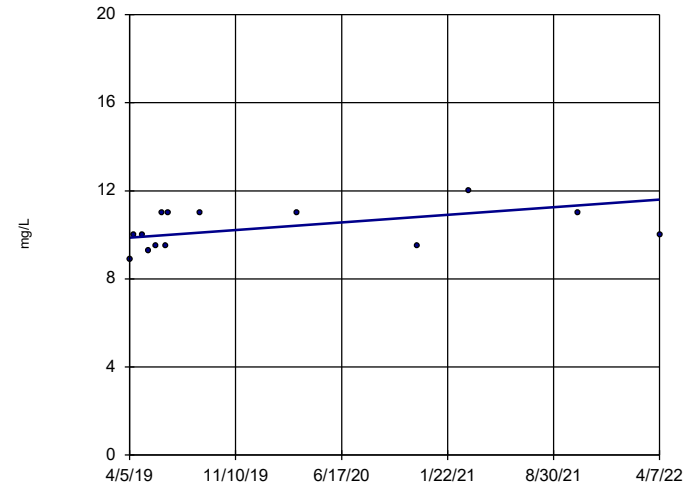


n = 15
 Slope = -0.2101 units per year.
 Mann-Kendall statistic = -32
 critical = -53
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/18/2022 3:44 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-6R

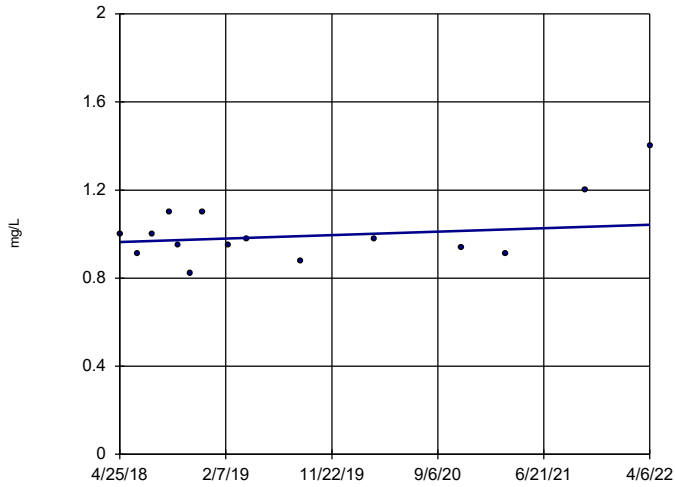


n = 14
 Slope = 0.5739 units per year.
 Mann-Kendall statistic = 35
 critical = 48
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/18/2022 3:44 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-7

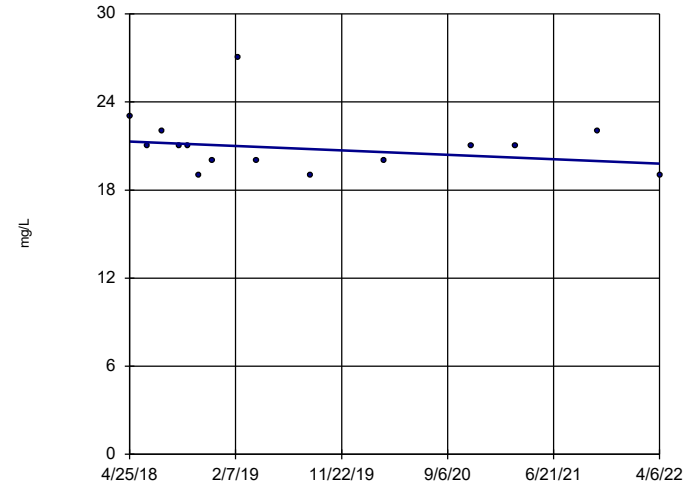


n = 15
 Slope = 0.01966
 units per year.
 Mann-Kendall
 statistic = 8
 critical = 53
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 5/18/2022 3:44 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-8

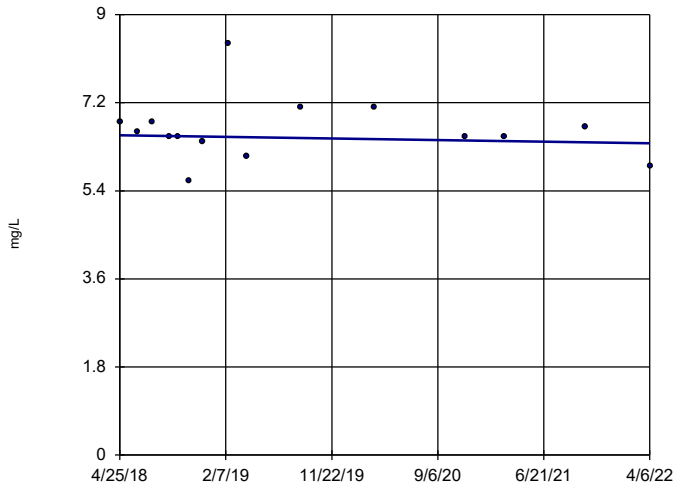


n = 15
 Slope = -0.3802
 units per year.
 Mann-Kendall
 statistic = -24
 critical = -53
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 5/18/2022 3:44 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-9

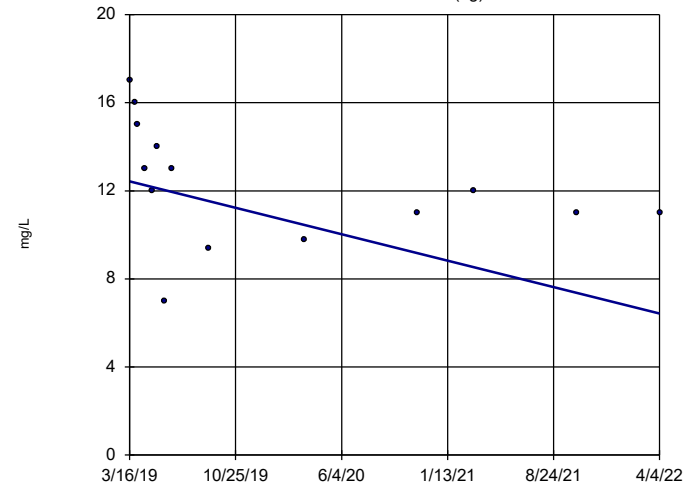


n = 15
 Slope = -0.04097
 units per year.
 Mann-Kendall
 statistic = -15
 critical = -53
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 5/18/2022 3:44 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-11 (bg)

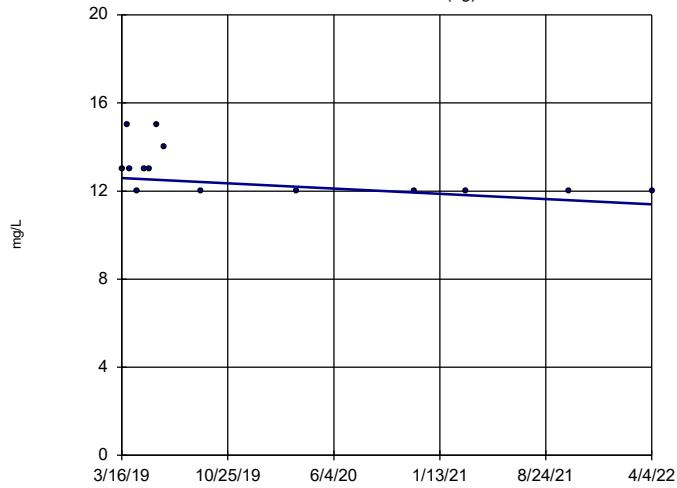


n = 14
 Slope = -1.964
 units per year.
 Mann-Kendall
 statistic = -46
 critical = -48
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/18/2022 3:44 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-12 (bg)

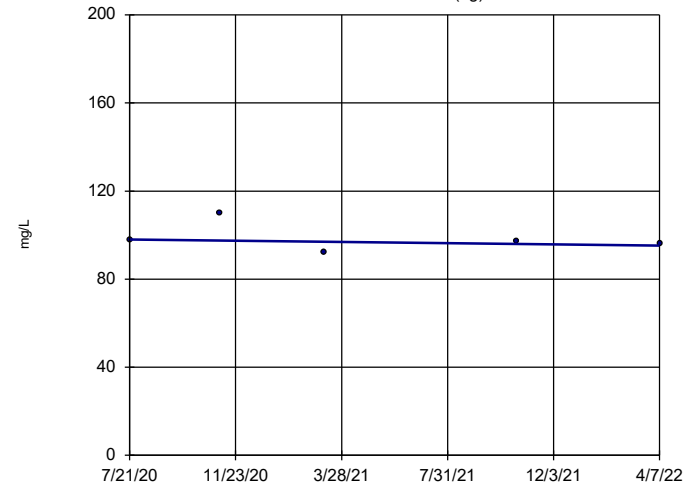


n = 14
 Slope = -0.3883
 units per year.
 Mann-Kendall
 statistic = -37
 critical = -48
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/18/2022 3:44 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-13 (bg)

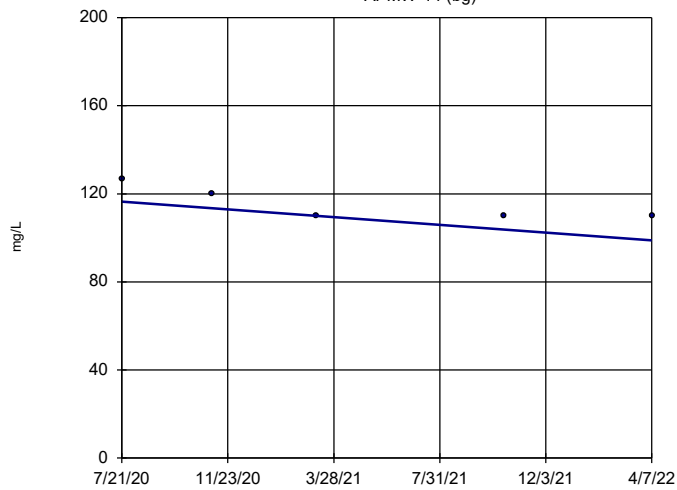


n = 5
 Slope = -1.576
 units per year.
 Mann-Kendall
 statistic = -4
 critical = -12
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/18/2022 3:44 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-14 (bg)

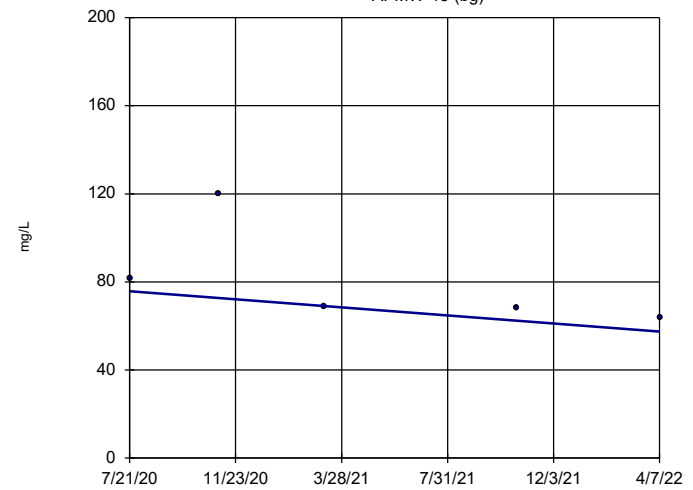


n = 5
 Slope = -10.25
 units per year.
 Mann-Kendall
 statistic = -7
 critical = -12
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/18/2022 3:44 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-15 (bg)

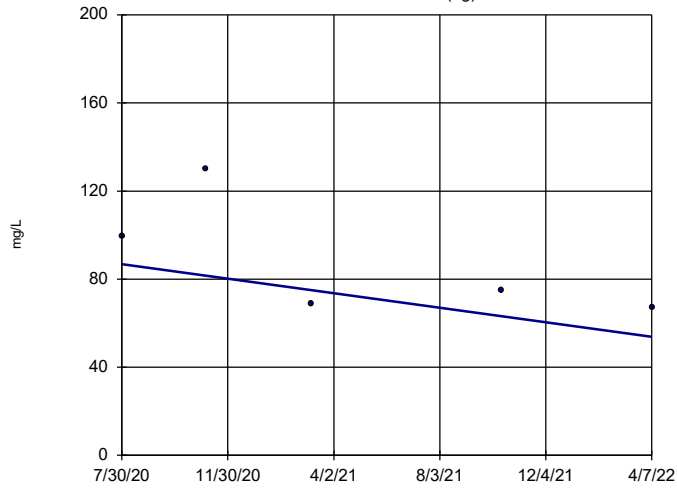


n = 5
 Slope = -10.65
 units per year.
 Mann-Kendall
 statistic = -8
 critical = -12
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/18/2022 3:44 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-16 (bg)

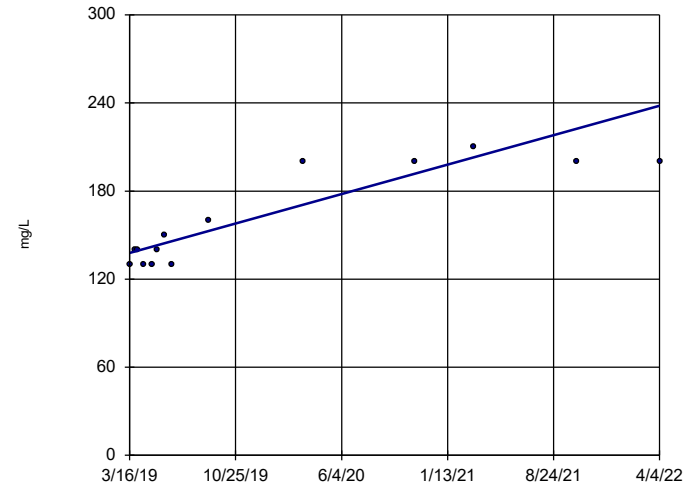


n = 5
 Slope = -19.53
 units per year.
 Mann-Kendall
 statistic = -6
 critical = -12
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/18/2022 3:44 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-1R

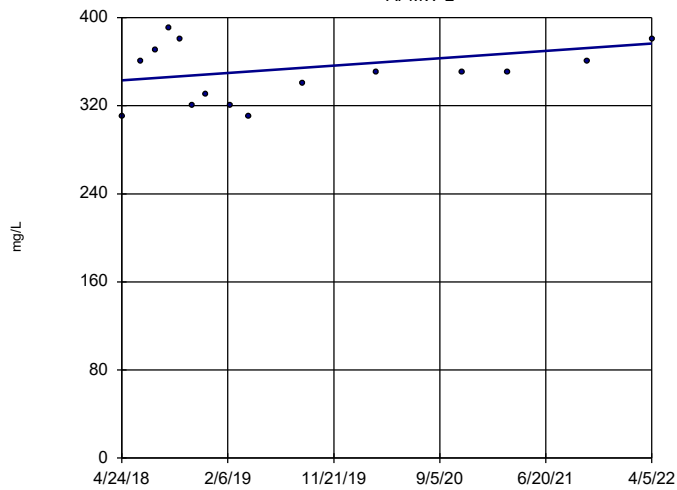


n = 14
 Slope = 32.82
 units per year.
 Mann-Kendall
 statistic = 56
 critical = 48
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/18/2022 3:44 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-2

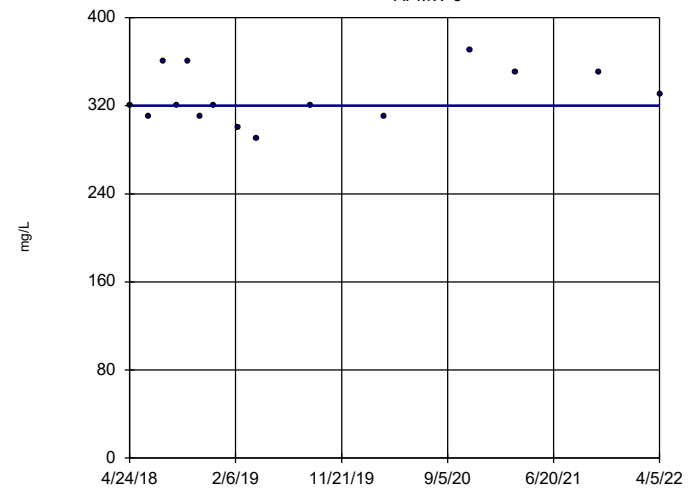


n = 15
 Slope = 8.43
 units per year.
 Mann-Kendall
 statistic = 16
 critical = 53
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/18/2022 3:44 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

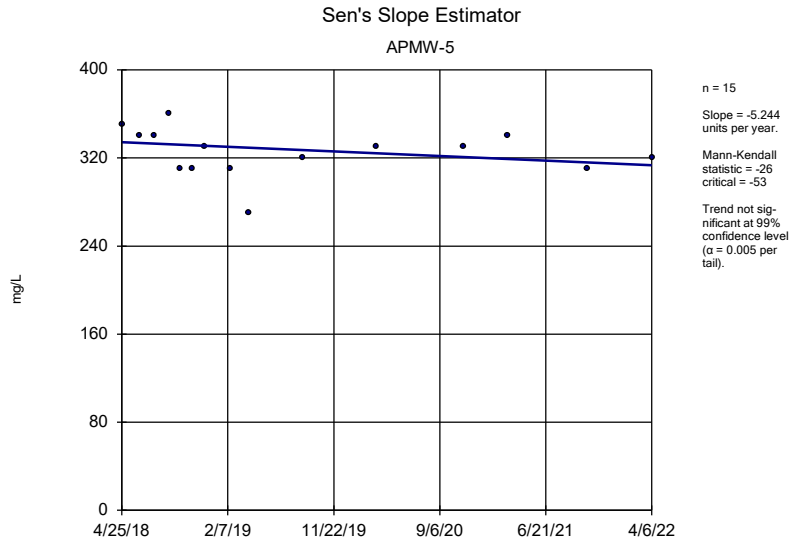
Sen's Slope Estimator

APMW-3

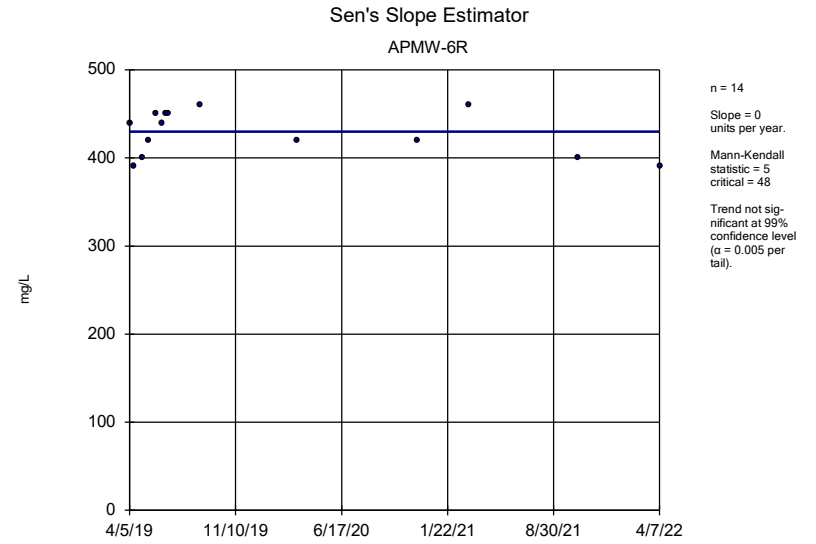


n = 15
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 10
 critical = 53
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

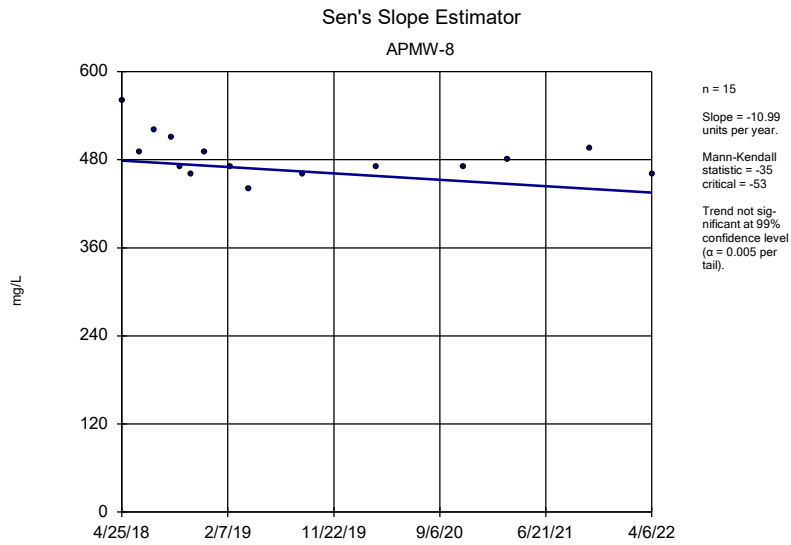
Constituent: Calcium Analysis Run 5/18/2022 3:44 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR



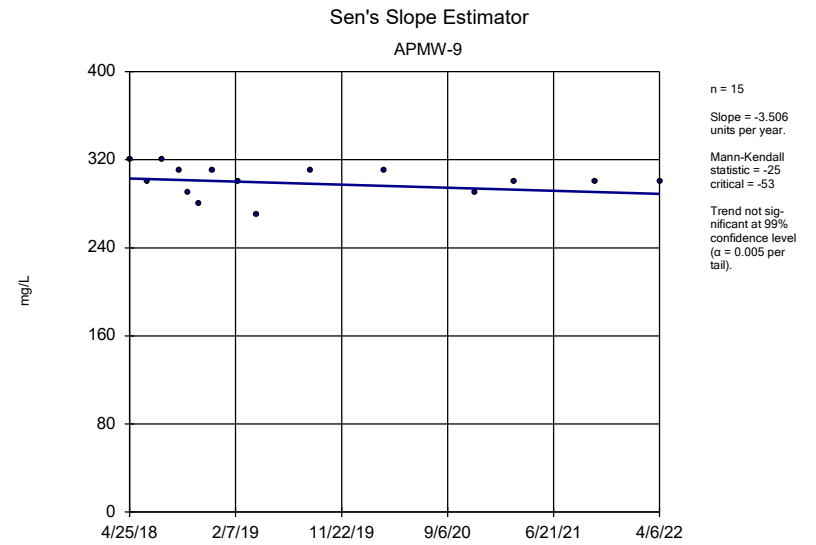
Constituent: Calcium Analysis Run 5/18/2022 3:44 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR



Constituent: Calcium Analysis Run 5/18/2022 3:44 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR



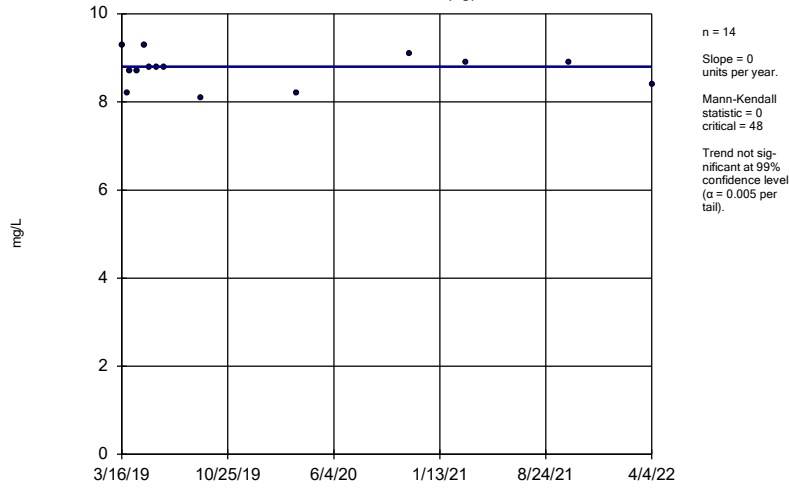
Constituent: Calcium Analysis Run 5/18/2022 3:44 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR



Constituent: Calcium Analysis Run 5/18/2022 3:44 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

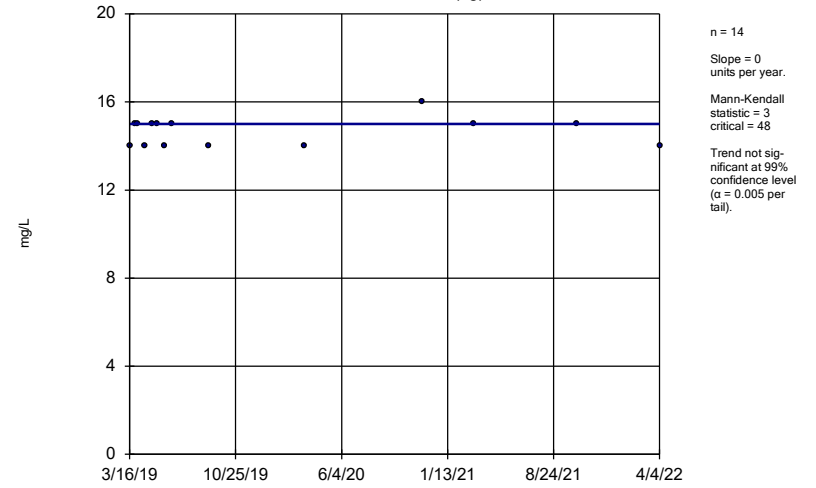
APMW-11 (bg)



Constituent: Chloride Analysis Run 5/18/2022 3:44 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

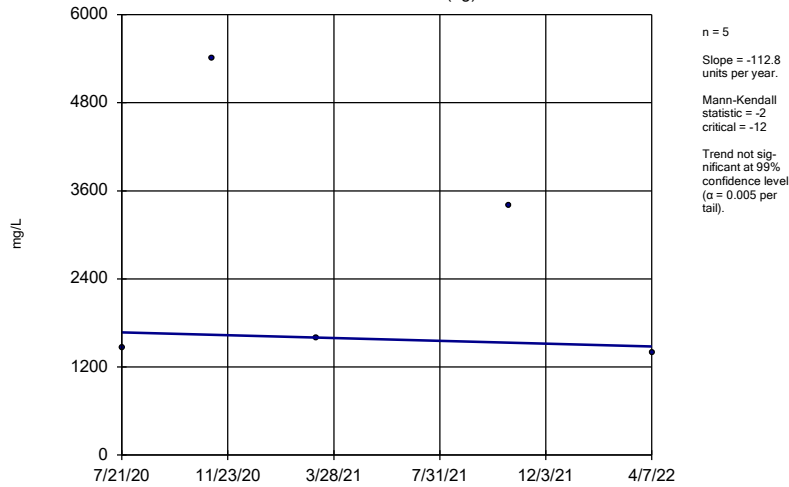
APMW-12 (bg)



Constituent: Chloride Analysis Run 5/18/2022 3:44 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

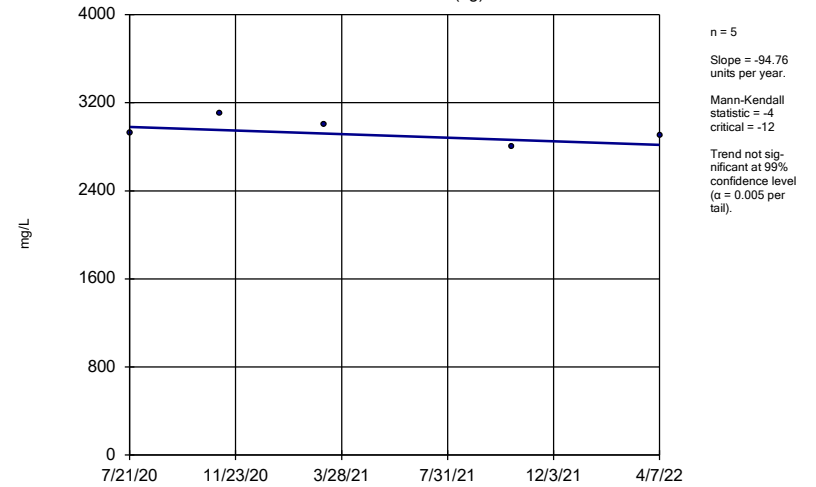
APMW-13 (bg)



Constituent: Chloride Analysis Run 5/18/2022 3:44 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

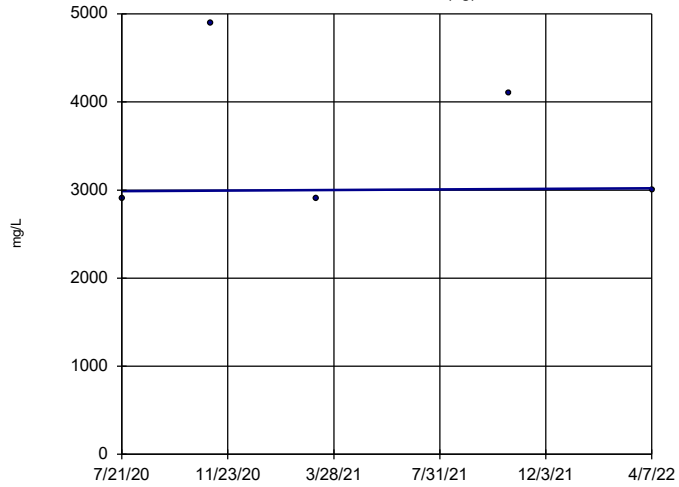
APMW-14 (bg)



Constituent: Chloride Analysis Run 5/18/2022 3:44 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-15 (bg)

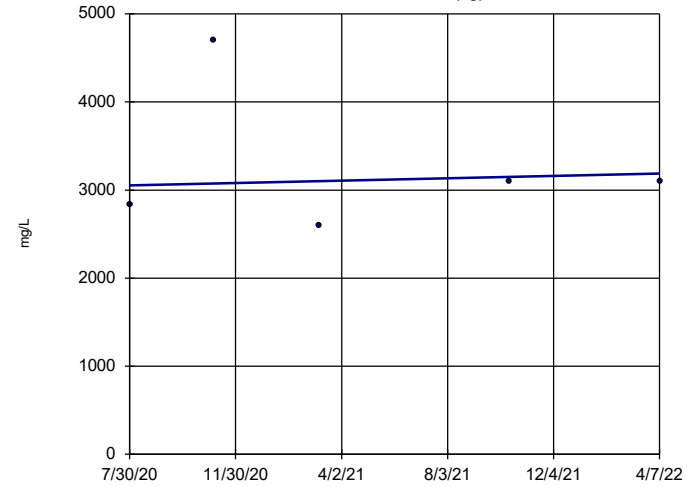


n = 5
 Slope = 18.35 units per year.
 Mann-Kendall statistic = 0
 critical = 12
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/18/2022 3:44 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-16 (bg)

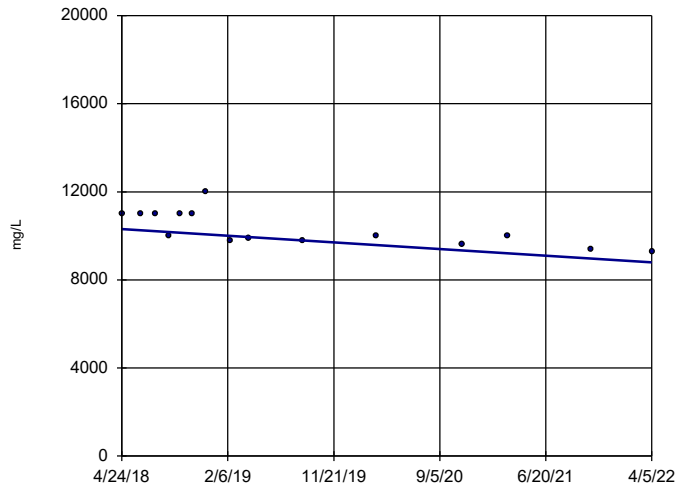


n = 5
 Slope = 79.99 units per year.
 Mann-Kendall statistic = 1
 critical = 12
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/18/2022 3:44 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-3

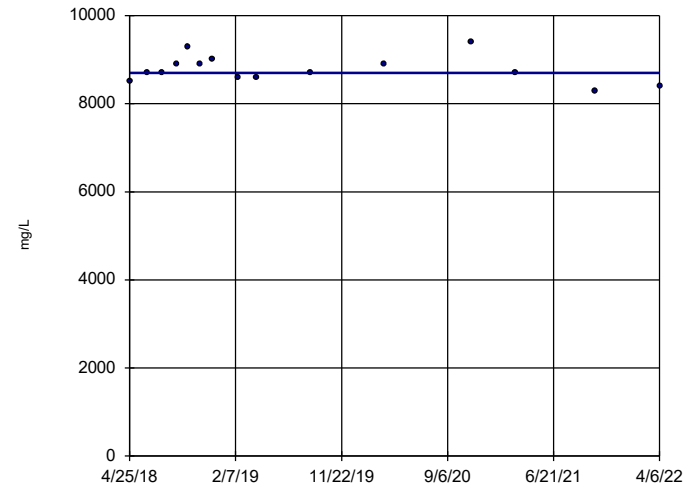


n = 15
 Slope = -380.6 units per year.
 Mann-Kendall statistic = -59
 critical = -53
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/18/2022 3:44 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-5

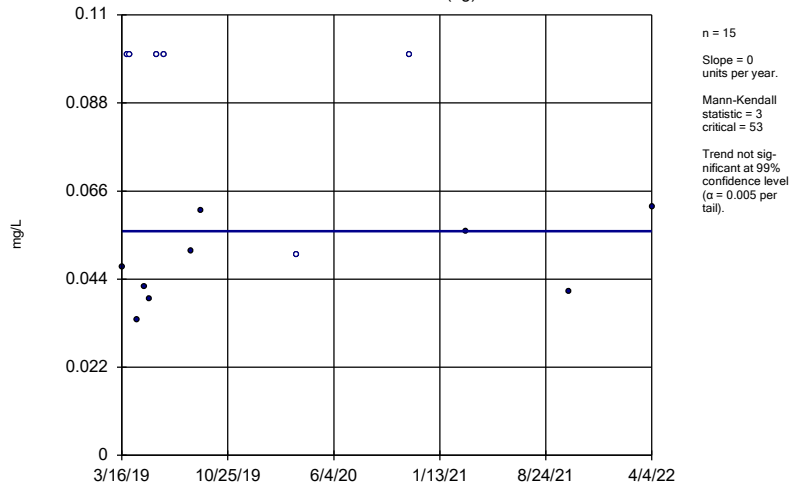


n = 15
 Slope = 0 units per year.
 Mann-Kendall statistic = -9
 critical = -53
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/18/2022 3:44 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

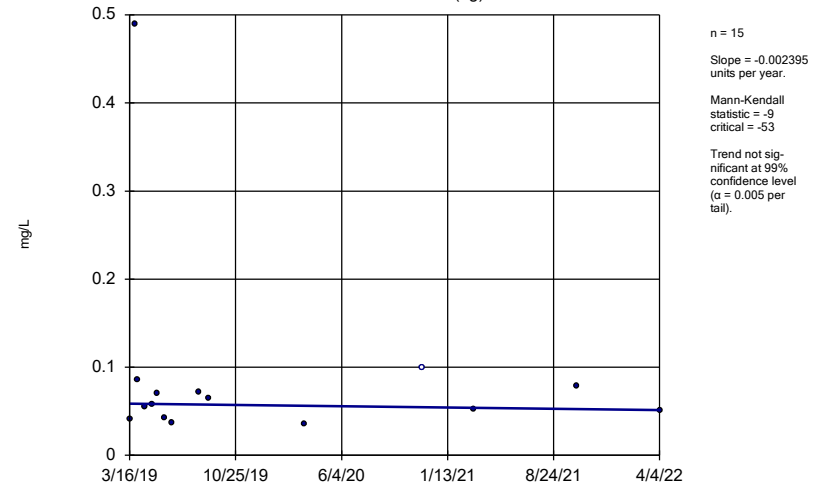
APMW-11 (bg)



Constituent: Fluoride Analysis Run 5/18/2022 3:45 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

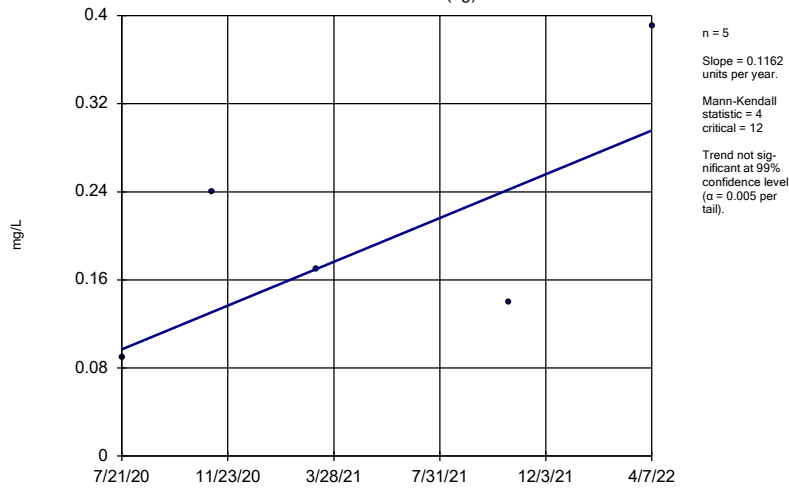
APMW-12 (bg)



Constituent: Fluoride Analysis Run 5/18/2022 3:45 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

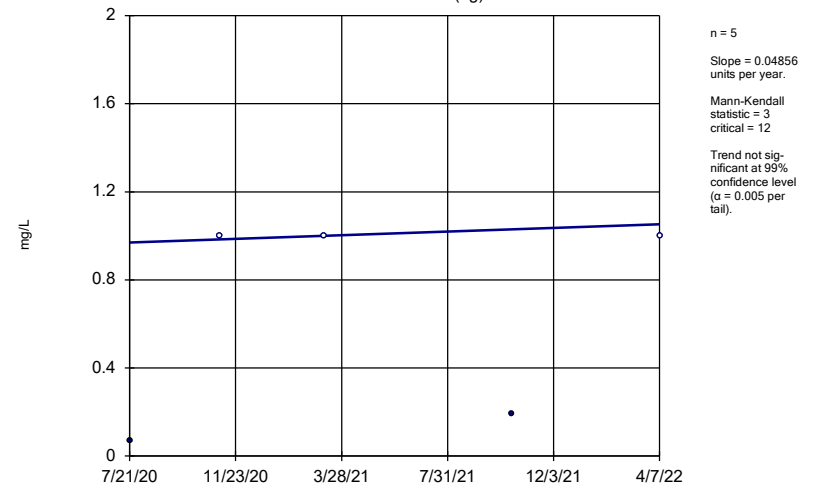
APMW-13 (bg)



Constituent: Fluoride Analysis Run 5/18/2022 3:45 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

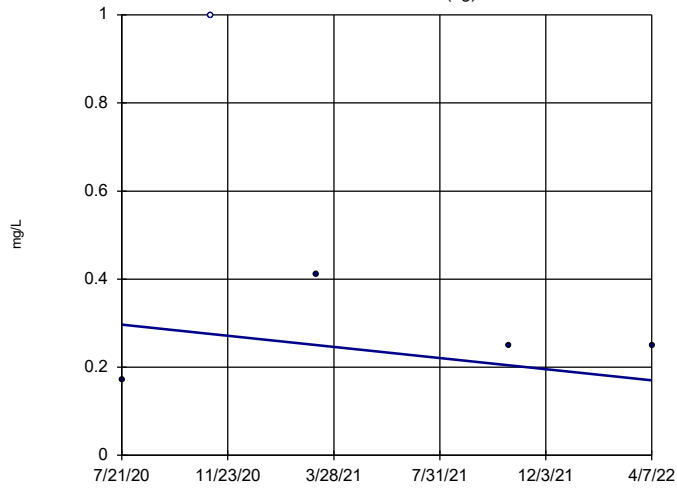
APMW-14 (bg)



Constituent: Fluoride Analysis Run 5/18/2022 3:45 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-15 (bg)

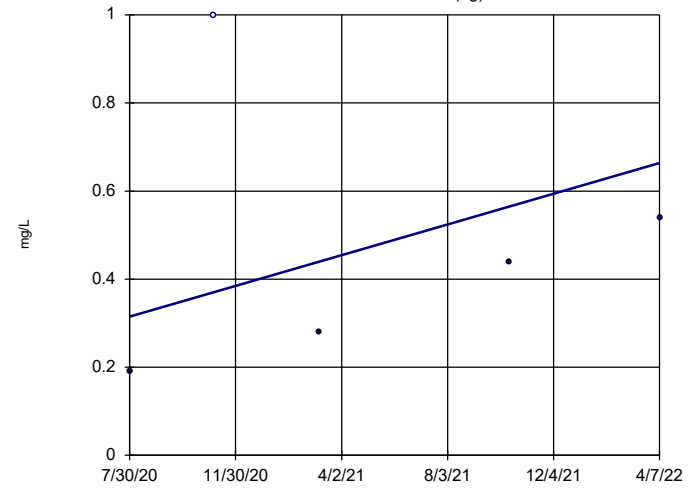


n = 5
Slope = -0.07392
units per year.
Mann-Kendall
statistic = -1
critical = -12
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Fluoride Analysis Run 5/18/2022 3:45 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-16 (bg)

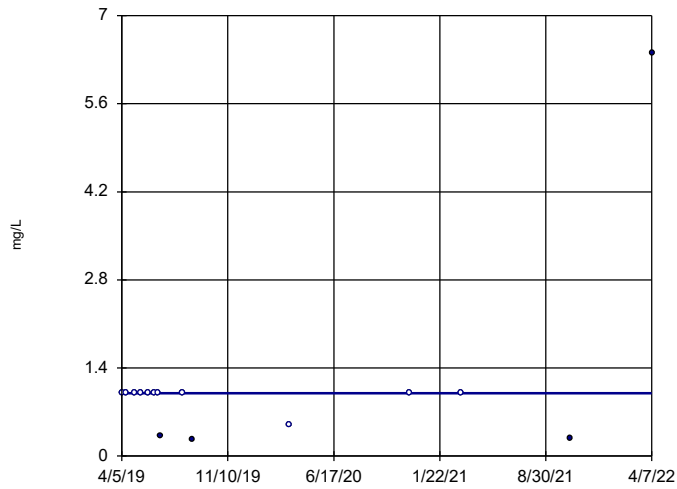


n = 5
Slope = 0.2069
units per year.
Mann-Kendall
statistic = 4
critical = 12
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Fluoride Analysis Run 5/18/2022 3:45 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-6R

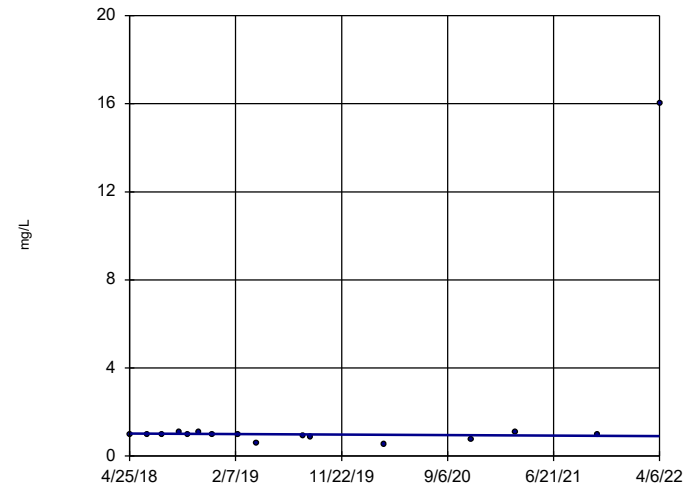


n = 15
Slope = 0
units per year.
Mann-Kendall
statistic = -12
critical = -53
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Fluoride Analysis Run 5/18/2022 3:45 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-8

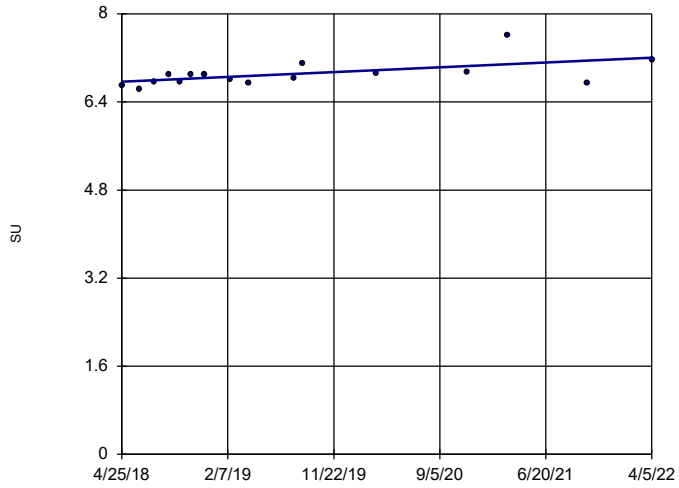


n = 16
Slope = -0.03095
units per year.
Mann-Kendall
statistic = -18
critical = -58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Fluoride Analysis Run 5/18/2022 3:45 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

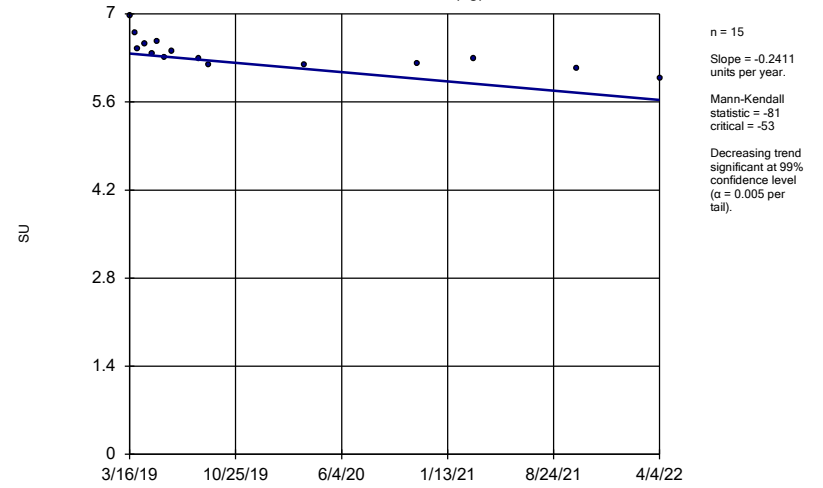
APMW-10



Constituent: pH Analysis Run 5/18/2022 3:45 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

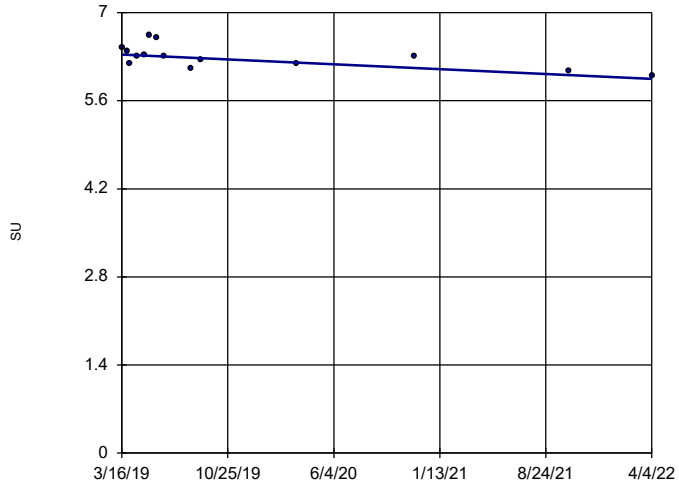
APMW-11 (bg)



Constituent: pH Analysis Run 5/18/2022 3:45 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

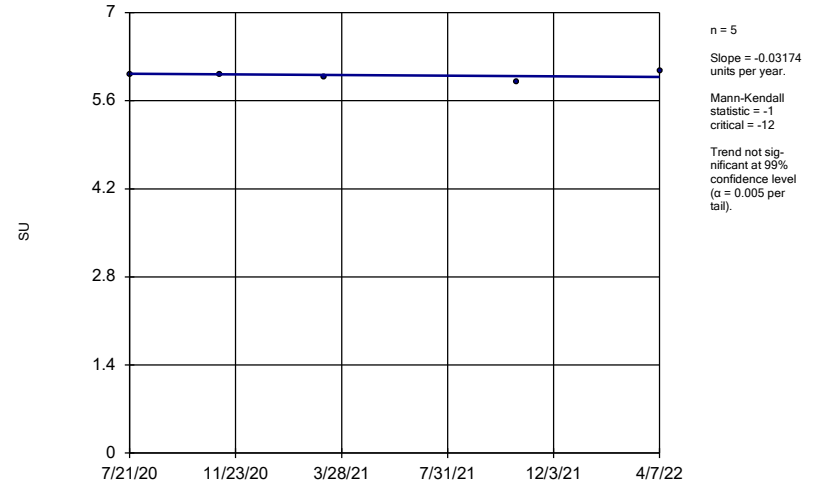
APMW-12 (bg)



Constituent: pH Analysis Run 5/18/2022 3:45 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

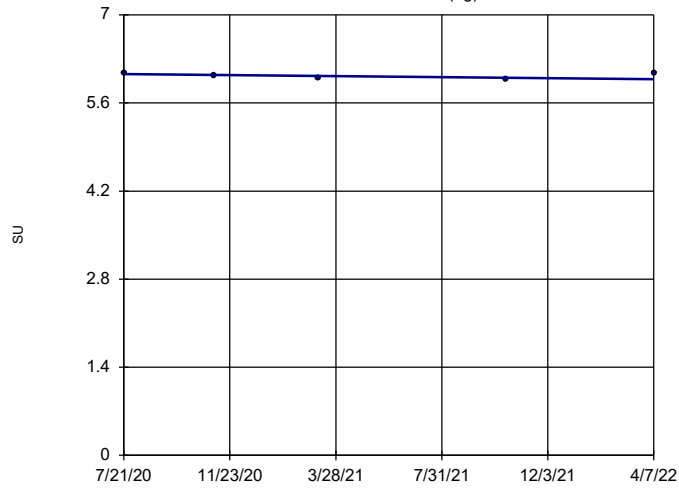
APMW-13 (bg)



Constituent: pH Analysis Run 5/18/2022 3:45 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-14 (bg)

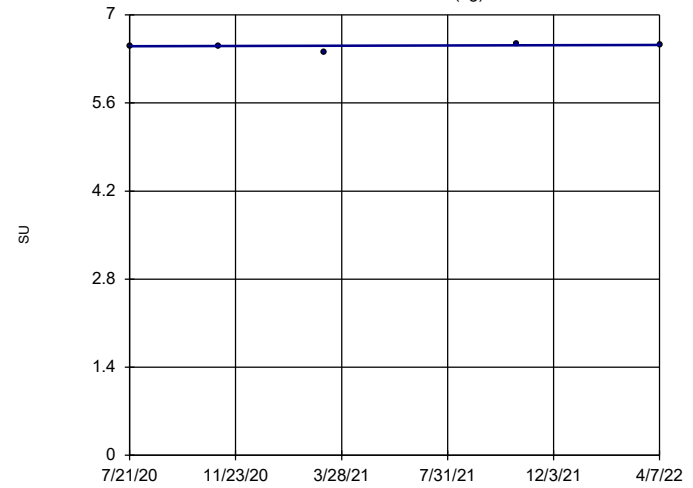


n = 5
Slope = -0.04825 units per year.
Mann-Kendall statistic = -4
critical = -12
Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: pH Analysis Run 5/18/2022 3:45 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-15 (bg)

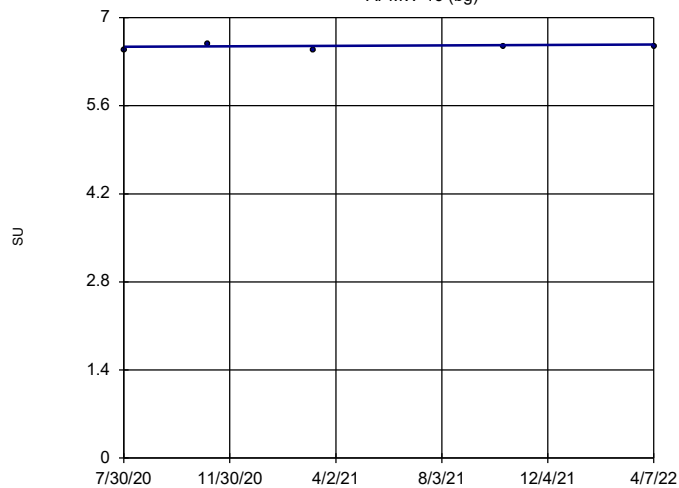


n = 5
Slope = 0.01286 units per year.
Mann-Kendall statistic = 3
critical = 12
Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: pH Analysis Run 5/18/2022 3:45 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-16 (bg)

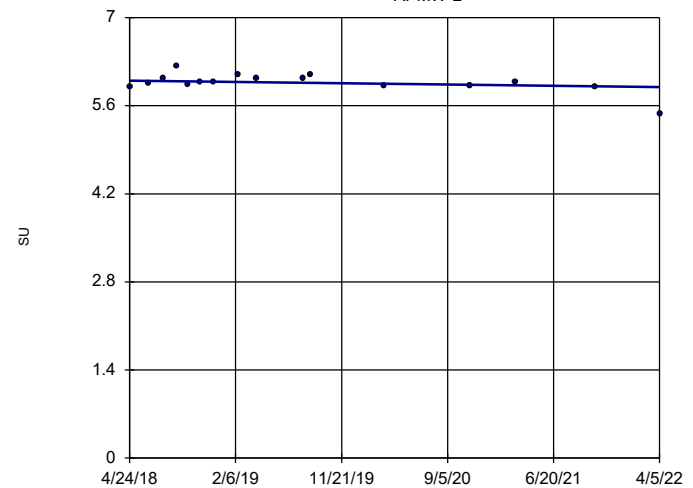


n = 5
Slope = 0.02074 units per year.
Mann-Kendall statistic = 2
critical = 12
Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: pH Analysis Run 5/18/2022 3:45 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-2

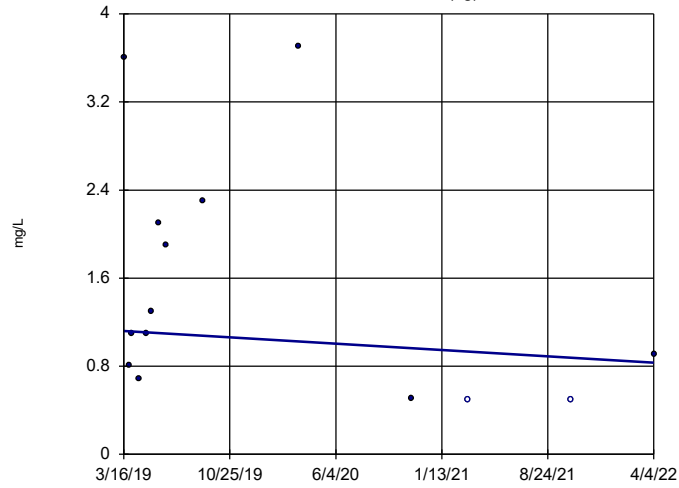


n = 16
Slope = -0.02567 units per year.
Mann-Kendall statistic = -23
critical = -58
Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: pH Analysis Run 5/18/2022 3:45 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-11 (bg)

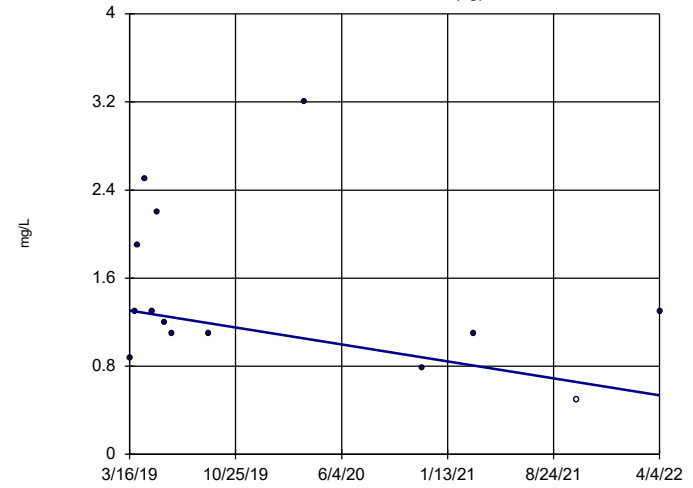


n = 14
Slope = -0.09467 units per year.
Mann-Kendall statistic = -13
critical = -48
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/18/2022 3:45 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-12 (bg)

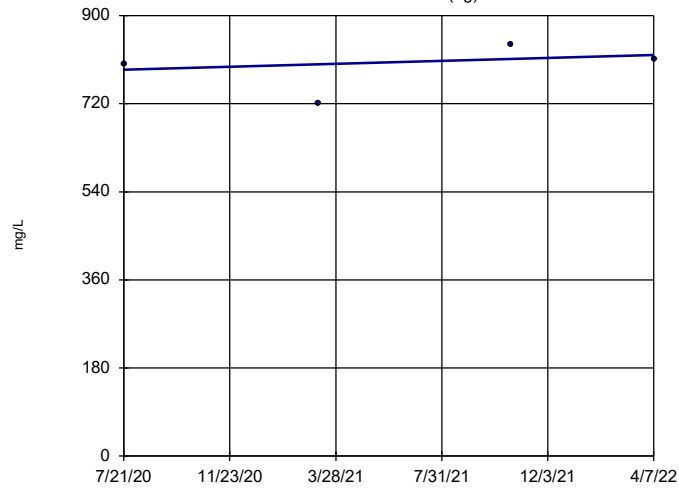


n = 14
Slope = -0.252 units per year.
Mann-Kendall statistic = -21
critical = -48
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/18/2022 3:45 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-13 (bg)

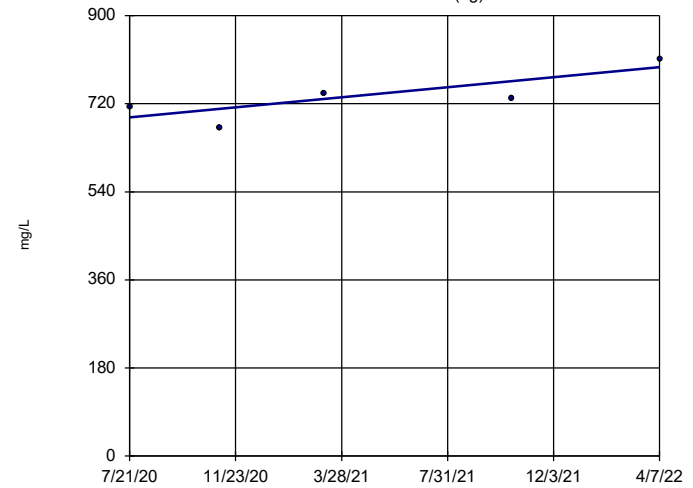


n = 4
Slope = 17.54 units per year.
Mann-Kendall statistic = 2
critical = 8
Trend not significant at 99% confidence level (α = 0.005 per tail).
With n = 4, no data set will result in a significant Mann-Kendall statistic.

Constituent: Sulfate Analysis Run 5/18/2022 3:45 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-14 (bg)

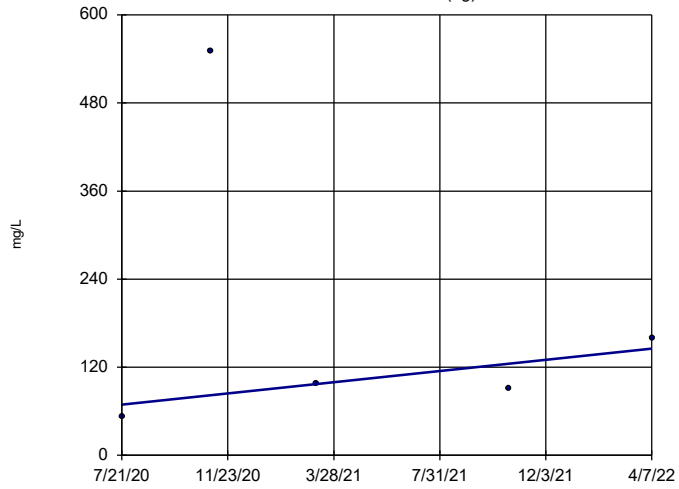


n = 5
Slope = 60.06 units per year.
Mann-Kendall statistic = 6
critical = 12
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/18/2022 3:45 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-15 (bg)

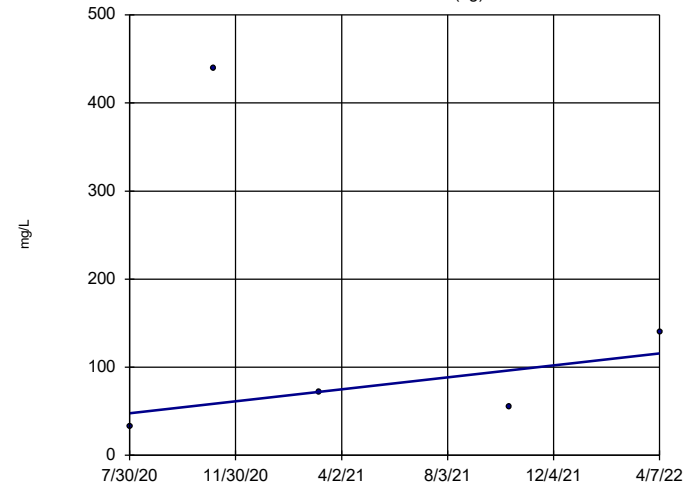


n = 5
 Slope = 44.56 units per year.
 Mann-Kendall statistic = 2
 critical = 12
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/18/2022 3:45 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-16 (bg)

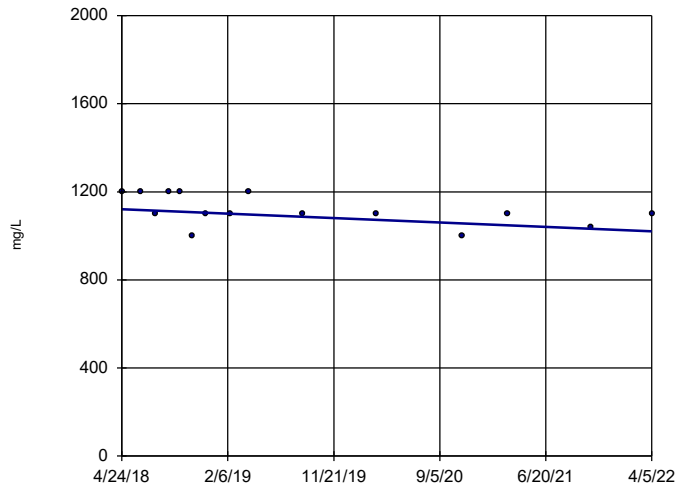


n = 5
 Slope = 40.34 units per year.
 Mann-Kendall statistic = 2
 critical = 12
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/18/2022 3:45 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-3

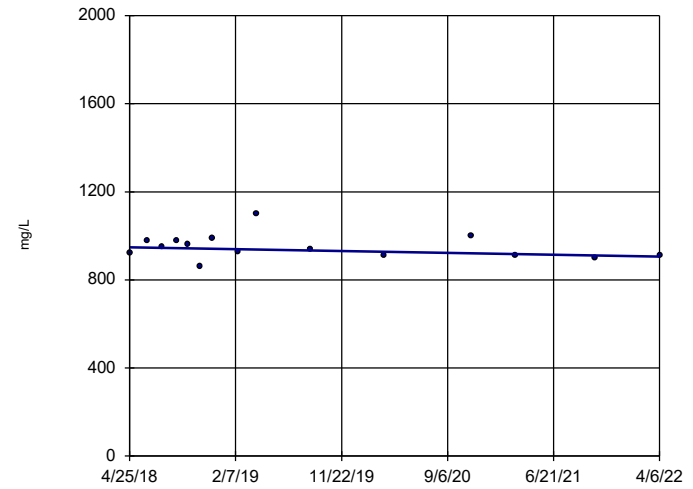


n = 15
 Slope = -25.31 units per year.
 Mann-Kendall statistic = -39
 critical = -53
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/18/2022 3:45 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-5

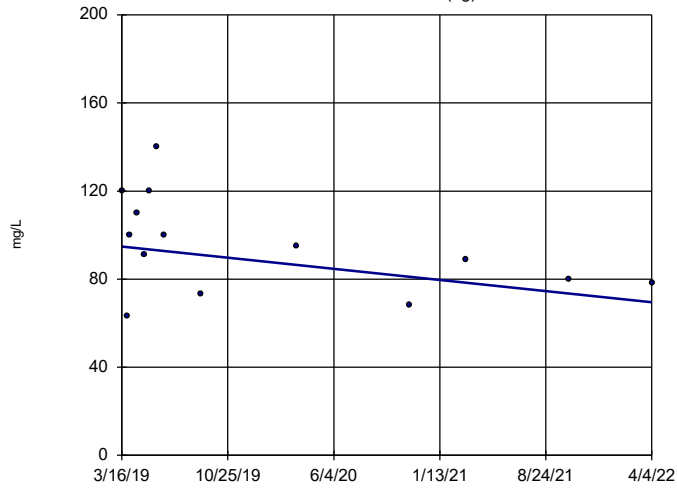


n = 15
 Slope = -10.8 units per year.
 Mann-Kendall statistic = -21
 critical = -53
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/18/2022 3:45 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-11 (bg)

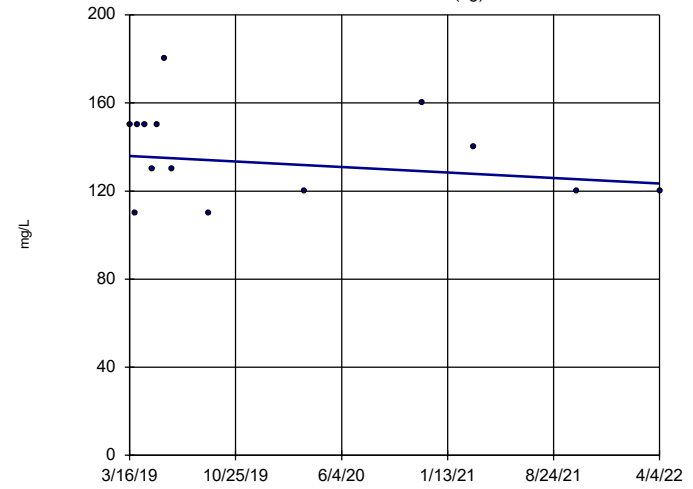


n = 14
 Slope = -8.295
 units per year.
 Mann-Kendall
 statistic = -29
 critical = -48
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 5/18/2022 3:45 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-12 (bg)

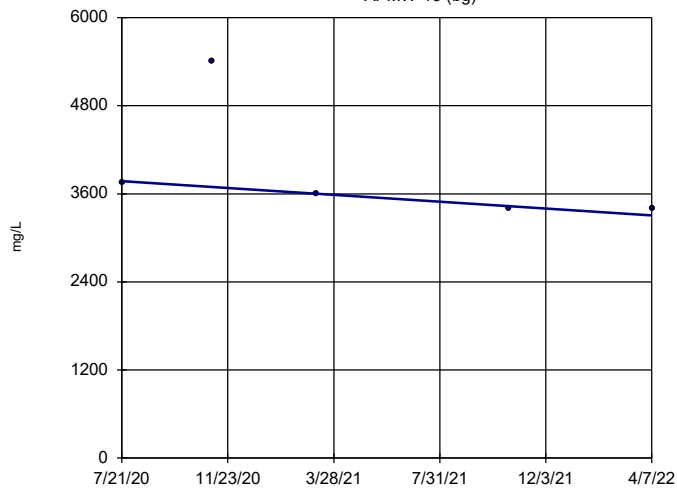


n = 14
 Slope = -4.092
 units per year.
 Mann-Kendall
 statistic = -16
 critical = -48
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 5/18/2022 3:45 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-13 (bg)

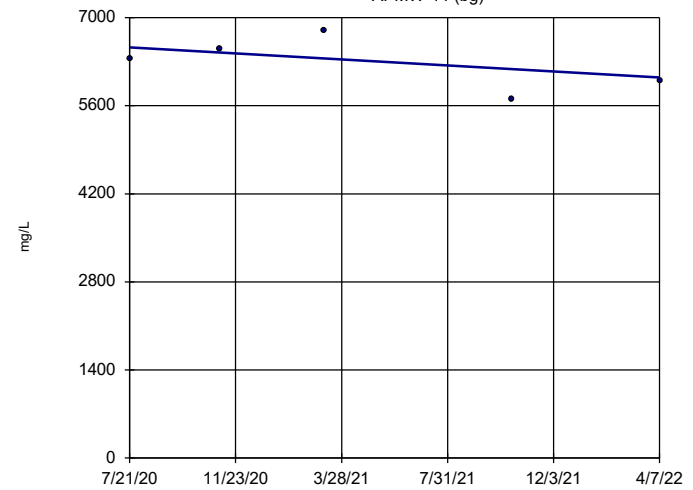


n = 5
 Slope = -271
 units per year.
 Mann-Kendall
 statistic = -7
 critical = -12
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 5/18/2022 3:45 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-14 (bg)

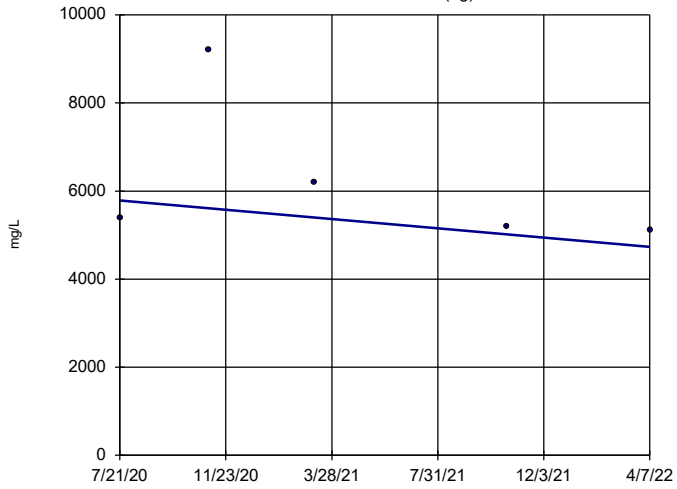


n = 5
 Slope = -278
 units per year.
 Mann-Kendall
 statistic = -2
 critical = -12
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 5/18/2022 3:45 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-15 (bg)

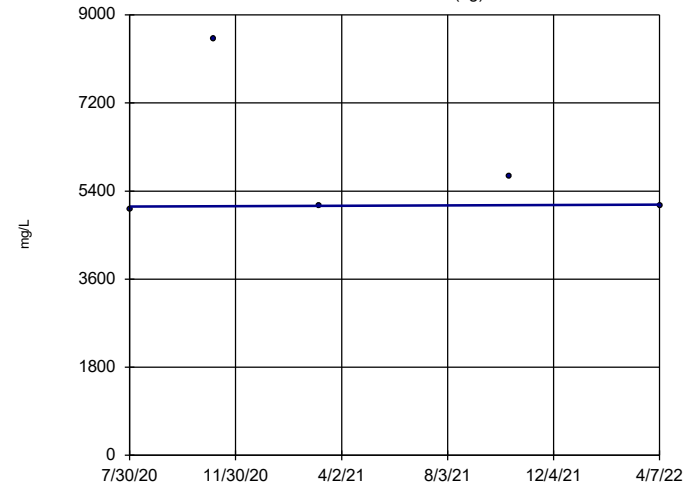


n = 5
 Slope = -616.2 units per year.
 Mann-Kendall statistic = -6
 critical = -12
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 5/18/2022 3:45 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-16 (bg)

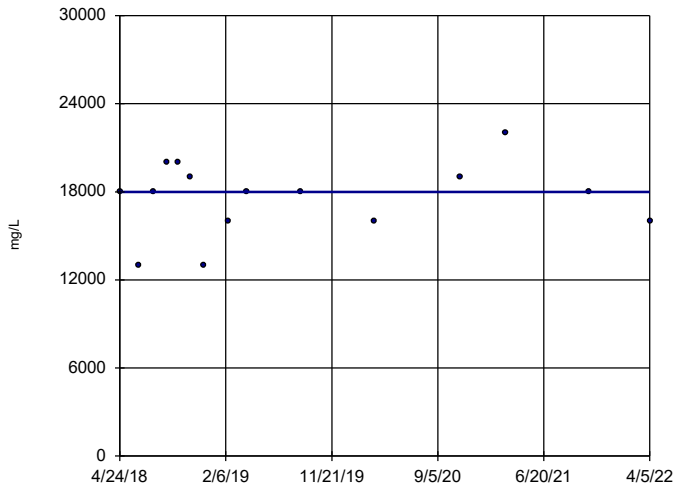


n = 5
 Slope = 23.7 units per year.
 Mann-Kendall statistic = 1
 critical = 12
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 5/18/2022 3:45 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-3

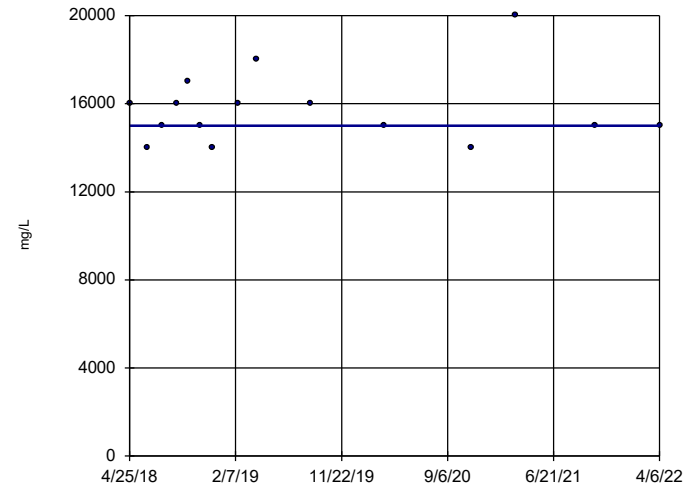


n = 15
 Slope = 0 units per year.
 Mann-Kendall statistic = 3
 critical = 53
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 5/18/2022 3:45 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-5



n = 15
 Slope = 0 units per year.
 Mann-Kendall statistic = 2
 critical = 53
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 5/18/2022 3:45 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

FIGURE F.

Upper Tolerance Limits Summary Table

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 5/13/2022, 1:13 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.002	n/a	n/a	n/a	50	100	n/a	0.07694	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.00496	n/a	n/a	n/a	50	40	n/a	0.07694	NP Inter(normality)
Barium (mg/L)	n/a	0.25	n/a	n/a	n/a	50	0	n/a	0.07694	NP Inter(NDs)
Beryllium (mg/L)	n/a	0.0025	n/a	n/a	n/a	50	94	n/a	0.07694	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0025	n/a	n/a	n/a	50	98	n/a	0.07694	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0044	n/a	n/a	n/a	46	91.3	n/a	0.09447	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.0025	n/a	n/a	n/a	50	90	n/a	0.07694	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	4.742	n/a	n/a	n/a	50	4	sqrt(x)	0.05	Inter
Fluoride (mg/L)	n/a	2	n/a	n/a	n/a	50	24	n/a	0.07694	NP Inter(normality)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	50	96	n/a	0.07694	NP Inter(NDs)
Lithium (mg/L)	n/a	0.02483	n/a	n/a	n/a	50	8	sqrt(x)	0.05	Inter
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	46	95.65	n/a	0.09447	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.015	n/a	n/a	n/a	50	96	n/a	0.07694	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	50	100	n/a	0.07694	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	50	96	n/a	0.07694	NP Inter(NDs)

FIGURE G.

PLANT WATSON AP CCR GWPS TABLE				
Constituent Name	MCL	CCR Rule-Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.002	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.25	2
Beryllium, Total (mg/L)	0.004		0.0025	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005
Chromium, Total (mg/L)	0.1		0.0044	0.1
Cobalt, Total (mg/L)		0.006	0.0025	0.006
Combined Radium, Total (pCi/L)	5		4.74	5
Fluoride, Total (mg/L)	4		2	4
Lead, Total (mg/L)		0.015	0.001	0.015
Lithium, Total (mg/L)		0.04	0.025	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)		0.1	0.015	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

*Grey cell indicates background limit is higher than CCR Rule Specified or MCL

FIGURE H.

Confidence Intervals - Significant Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 5/24/2022, 1:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	APMW-10	0.1154	0.07069	0.01	Yes	15	0.09307	0.03303	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-3	0.08064	0.05822	0.01	Yes	15	0.06943	0.01654	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-4	0.01821	0.01607	0.01	Yes	15	0.0168	0.002336	0	None	x^5	0.01	Param.
Arsenic (mg/L)	APMW-5	0.2378	0.2128	0.01	Yes	15	0.2253	0.01846	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-6R	0.1798	0.1308	0.01	Yes	15	0.1553	0.03616	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-8	0.08001	0.04519	0.01	Yes	15	0.0626	0.0257	0	None	No	0.01	Param.
Barium (mg/L)	APMW-2	3.393	2.954	2	Yes	15	3.173	0.324	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-1R	10.32	6.574	5	Yes	15	8.447	2.764	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-2	20.13	17.62	5	Yes	15	18.87	1.854	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-3	6.991	5.249	5	Yes	15	6.12	1.286	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-7	7.15	5.657	5	Yes	15	6.329	1.271	0	None	x^2	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-9	8.11	6.67	5	Yes	15	7.312	0.844	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-3	0.088	0.07	0.04	Yes	15	0.07837	0.01111	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-4	0.063	0.051	0.04	Yes	15	0.05707	0.00949	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-5	0.052	0.044	0.04	Yes	15	0.0492	0.009578	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-6R	0.0585	0.0529	0.04	Yes	15	0.0557	0.004131	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-8	0.099	0.0735	0.04	Yes	15	0.09043	0.02432	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	APMW-6R	0.4521	0.3759	0.1	Yes	15	0.414	0.05629	0	None	No	0.01	Param.

Confidence Intervals - All Results

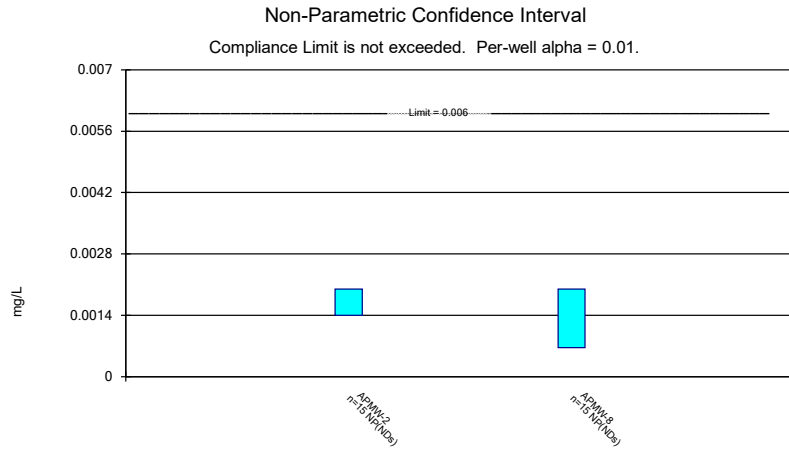
Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 5/24/2022, 1:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	APMW-2	0.002	0.0014	0.006	No	15	0.00196	0.0001549	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	APMW-8	0.002	0.00066	0.006	No	15	0.001911	0.000346	93.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	APMW-10	0.1154	0.07069	0.01	Yes	15	0.09307	0.03303	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-1R	0.001955	0.0008499	0.01	No	15	0.001403	0.0008158	13.33	None	No	0.01	Param.
Arsenic (mg/L)	APMW-2	0.00077	0.00035	0.01	No	15	0.000584	0.0002193	73.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	APMW-3	0.08064	0.05822	0.01	Yes	15	0.06943	0.01654	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-4	0.01821	0.01607	0.01	Yes	15	0.0168	0.002336	0	None	x^5	0.01	Param.
Arsenic (mg/L)	APMW-5	0.2378	0.2128	0.01	Yes	15	0.2253	0.01846	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-6R	0.1798	0.1308	0.01	Yes	15	0.1553	0.03616	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-7	0.0021	0.00045	0.01	No	15	0.001237	0.0009066	0	None	No	0.01	NP (normality)
Arsenic (mg/L)	APMW-8	0.08001	0.04519	0.01	Yes	15	0.0626	0.0257	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-9	0.001418	0.001142	0.01	No	15	0.00128	0.0002042	0	None	No	0.01	Param.
Barium (mg/L)	APMW-10	0.298	0.2353	2	No	15	0.2667	0.04624	0	None	No	0.01	Param.
Barium (mg/L)	APMW-1R	1.252	0.9613	2	No	15	1.117	0.2316	0	None	ln(x)	0.01	Param.
Barium (mg/L)	APMW-2	3.393	2.954	2	Yes	15	3.173	0.324	0	None	No	0.01	Param.
Barium (mg/L)	APMW-3	0.11	0.098	2	No	15	0.102	0.006425	0	None	No	0.01	NP (normality)
Barium (mg/L)	APMW-4	0.4656	0.285	2	No	15	0.3753	0.1332	0	None	No	0.01	Param.
Barium (mg/L)	APMW-5	0.1071	0.09585	2	No	15	0.1015	0.008288	0	None	No	0.01	Param.
Barium (mg/L)	APMW-6R	0.06472	0.05234	2	No	15	0.05853	0.009133	0	None	No	0.01	Param.
Barium (mg/L)	APMW-7	0.8437	0.6176	2	No	15	0.7307	0.1668	0	None	No	0.01	Param.
Barium (mg/L)	APMW-8	0.2248	0.2072	2	No	15	0.216	0.01298	0	None	No	0.01	Param.
Barium (mg/L)	APMW-9	0.4727	0.4299	2	No	15	0.4513	0.03159	0	None	No	0.01	Param.
Beryllium (mg/L)	APMW-10	0.013	0.00076	0.004	No	15	0.01135	0.004365	86.67	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-1R	0.013	0.00019	0.004	No	15	0.01215	0.003308	93.33	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-2	0.013	0.00061	0.004	No	15	0.01047	0.005242	80	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-3	0.013	0.00018	0.004	No	15	0.01215	0.00331	93.33	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-6R	0.013	0.00036	0.004	No	15	0.01216	0.003264	93.33	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-7	0.013	0.00025	0.004	No	15	0.01215	0.003292	93.33	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-8	0.013	0.00038	0.004	No	15	0.01216	0.003258	93.33	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-9	0.013	0.00049	0.004	No	15	0.01132	0.004446	86.67	None	No	0.01	NP (NDs)
Cadmium (mg/L)	APMW-10	0.0025	0.00025	0.005	No	15	0.00235	0.0005809	93.33	None	No	0.01	NP (NDs)
Cadmium (mg/L)	APMW-1R	0.0025	0.00045	0.005	No	15	0.002363	0.0005293	93.33	None	No	0.01	NP (NDs)
Cadmium (mg/L)	APMW-6R	0.0025	0.00026	0.005	No	15	0.002193	0.0008096	86.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	APMW-1R	0.0032	0.002	0.1	No	13	0.002092	0.0003328	92.31	None	No	0.01	NP (NDs)
Chromium (mg/L)	APMW-3	0.002	0.0014	0.1	No	13	0.001954	0.0001664	92.31	None	No	0.01	NP (NDs)
Chromium (mg/L)	APMW-4	0.002236	0.001429	0.1	No	13	0.002015	0.0004634	38.46	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	APMW-5	0.0024	0.0013	0.1	No	13	0.001831	0.0003568	61.54	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	APMW-7	0.0022	0.0014	0.1	No	13	0.001754	0.0003256	46.15	None	No	0.01	NP (normality)
Chromium (mg/L)	APMW-8	0.0032	0.0014	0.1	No	13	0.002046	0.0003843	84.62	None	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-10	0.0025	0.00033	0.006	No	15	0.002035	0.000963	80	None	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-1R	0.0025	0.00037	0.006	No	15	0.001365	0.001103	46.67	None	No	0.01	NP (normality)
Cobalt (mg/L)	APMW-3	0.003157	0.00239	0.006	No	15	0.002773	0.0005663	0	None	No	0.01	Param.
Cobalt (mg/L)	APMW-4	0.003787	0.003266	0.006	No	15	0.003527	0.0003845	0	None	No	0.01	Param.
Cobalt (mg/L)	APMW-5	0.0025	0.000079	0.006	No	15	0.002177	0.0008526	86.67	None	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-6R	0.003538	0.002022	0.006	No	15	0.00278	0.001119	0	None	No	0.01	Param.
Cobalt (mg/L)	APMW-7	0.0025	0.00024	0.006	No	15	0.001461	0.00115	53.33	None	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-9	0.0025	0.000089	0.006	No	15	0.002178	0.0008492	86.67	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	APMW-10	3.235	2.596	5	No	15	2.915	0.4718	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-1R	10.32	6.574	5	Yes	15	8.447	2.764	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-2	20.13	17.62	5	Yes	15	18.87	1.854	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-3	6.991	5.249	5	Yes	15	6.12	1.286	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-4	2.628	1.873	5	No	15	2.251	0.5568	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-5	4.614	3.745	5	No	15	4.179	0.6411	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-6R	3.315	2.752	5	No	15	2.914	0.7941	0	None	x^3	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-7	7.15	5.657	5	Yes	15	6.329	1.271	0	None	x^2	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-8	4.029	3.361	5	No	15	3.695	0.4931	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-9	8.11	6.67	5	Yes	15	7.312	0.844	0	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-10	0.7761	0.6076	4	No	16	0.6919	0.1295	0	None	No	0.01	Param.
Fluoride (mg/L)	APMW-1R	5	0.14	4	No	15	2.75	2.49	53.33	None	No	0.01	NP (NDs)
Fluoride (mg/L)	APMW-2	5	0.06	4	No	15	1.413	2.24	26.67	None	No	0.01	NP (normality)

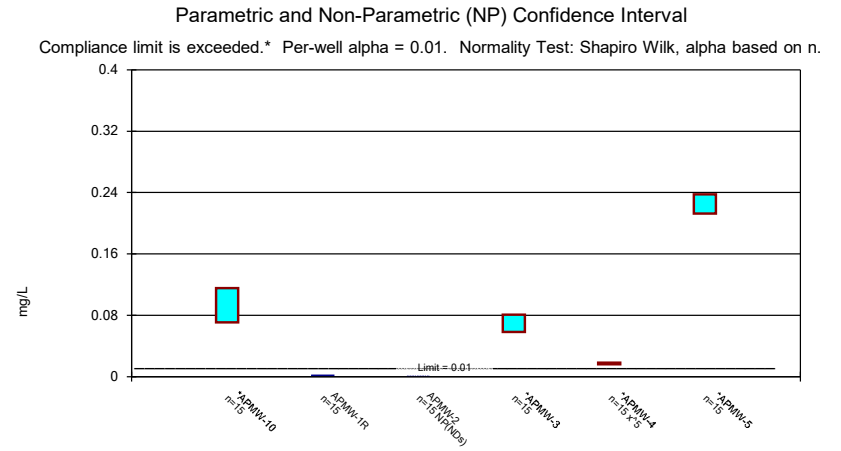
Confidence Intervals - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 5/24/2022, 1:37 PM

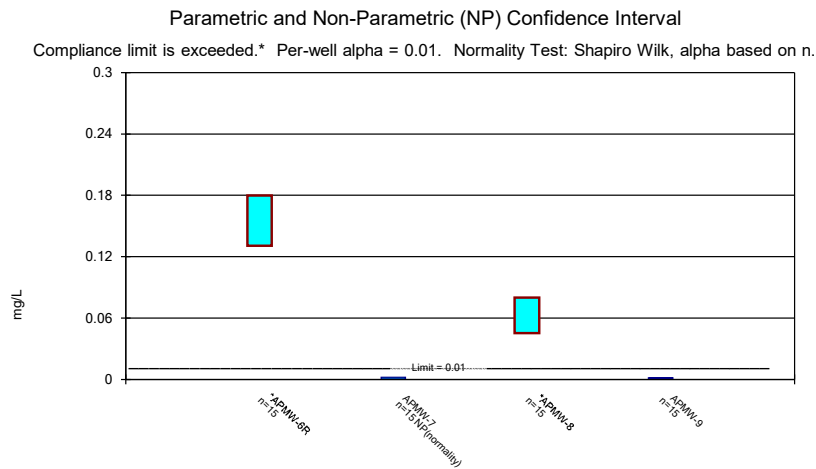
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	APMW-3	5	0.37	4	No	16	1.921	2.15	31.25	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-4	0.58	0.48	4	No	16	1.061	1.539	12.5	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-5	5	0.09	4	No	15	2.709	2.535	53.33	None	No	0.01	NP (NDs)
Fluoride (mg/L)	APMW-6R	6.4	0.32	4	No	15	4.152	2.029	73.33	None	No	0.01	NP (NDs)
Fluoride (mg/L)	APMW-7	1.6	0.12	4	No	16	1.229	1.919	18.75	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-8	1.1	0.74	4	No	16	1.866	3.773	0	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-9	5	0.06	4	No	15	1.777	2.367	33.33	None	No	0.01	NP (normality)
Lead (mg/L)	APMW-10	0.0011	0.0006	0.015	No	15	0.00087	0.0003022	73.33	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-2	0.001	0.00022	0.015	No	15	0.000948	0.0002014	93.33	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-3	0.001	0.00048	0.015	No	15	0.0009273	0.000192	86.67	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-4	0.001	0.00062	0.015	No	15	0.0009747	0.00009812	93.33	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-5	0.0011	0.00041	0.015	No	15	0.0009247	0.0002208	80	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-6R	0.001	0.00032	0.015	No	15	0.0009547	0.0001756	93.33	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-7	0.0019	0.001	0.015	No	15	0.00106	0.0002324	93.33	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-8	0.0013	0.001	0.015	No	15	0.00106	0.0001682	86.67	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-9	0.001	0.00039	0.015	No	15	0.0009013	0.000265	86.67	None	No	0.01	NP (NDs)
Lithium (mg/L)	APMW-10	0.0192	0.01047	0.04	No	15	0.01517	0.007377	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	APMW-1R	0.014	0.011	0.04	No	15	0.0125	0.004049	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-2	0.02976	0.02331	0.04	No	15	0.02653	0.004764	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-3	0.088	0.07	0.04	Yes	15	0.07837	0.01111	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-4	0.063	0.051	0.04	Yes	15	0.05707	0.00949	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-5	0.052	0.044	0.04	Yes	15	0.0492	0.009578	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-6R	0.0585	0.0529	0.04	Yes	15	0.0557	0.004131	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-7	0.004294	0.002501	0.04	No	14	0.003407	0.001385	21.43	Kaplan-Meier	sqrt(x)	0.01	Param.
Lithium (mg/L)	APMW-8	0.099	0.0735	0.04	Yes	15	0.09043	0.02432	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-9	0.005143	0.003092	0.04	No	14	0.004121	0.001875	21.43	Kaplan-Meier	ln(x)	0.01	Param.
Mercury (mg/L)	APMW-10	0.0002	0.000085	0.002	No	13	0.0001912	0.0000319	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-1R	0.0002	0.00015	0.002	No	13	0.0001962	0.00001387	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-5	0.0002	0.000093	0.002	No	13	0.0001918	0.00002968	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-7	0.0002	0.00009	0.002	No	13	0.0001915	0.00003051	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-8	0.0002	0.000077	0.002	No	13	0.0001905	0.00003411	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-9	0.00035	0.0002	0.002	No	13	0.0002115	0.0000416	92.31	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	APMW-10	0.11	0.055	0.1	No	15	0.08493	0.02633	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	APMW-2	0.015	0.00079	0.1	No	15	0.01405	0.003669	93.33	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	APMW-3	0.07095	0.06192	0.1	No	15	0.06643	0.006662	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-4	0.009963	0.006997	0.1	No	15	0.00848	0.002188	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-5	0.09993	0.0666	0.1	No	15	0.08327	0.02459	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-6R	0.4521	0.3759	0.1	Yes	15	0.414	0.05629	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-7	0.015	0.0062	0.1	No	15	0.01106	0.005154	60	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	APMW-8	0.1512	0.09199	0.1	No	15	0.1216	0.04369	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-9	0.015	0.00093	0.1	No	15	0.01312	0.004956	86.67	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-10	0.005	0.00061	0.05	No	15	0.004087	0.001892	80	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-2	0.005	0.00072	0.05	No	15	0.004113	0.001837	80	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-3	0.005	0.001	0.05	No	15	0.003278	0.001924	53.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-4	0.005	0.00068	0.05	No	15	0.004106	0.001852	80	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-5	0.005	0.00071	0.05	No	15	0.004127	0.001807	80	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-7	0.005	0.00046	0.05	No	15	0.004081	0.001903	80	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-8	0.005	0.0006	0.05	No	15	0.004101	0.001862	80	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-9	0.005	0.00081	0.05	No	15	0.004099	0.001868	80	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-10	0.001	0.00068	0.002	No	15	0.000894	0.0002439	80	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-1R	0.001	0.00019	0.002	No	15	0.000946	0.0002091	93.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-2	0.001	0.00084	0.002	No	15	0.0009893	0.00004131	93.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-3	0.001	0.00012	0.002	No	15	0.0009413	0.0002272	93.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-8	0.0013	0.00025	0.002	No	15	0.0009147	0.0002967	80	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-9	0.0016	0.00024	0.002	No	15	0.0009893	0.0002586	86.67	None	No	0.01	NP (NDs)



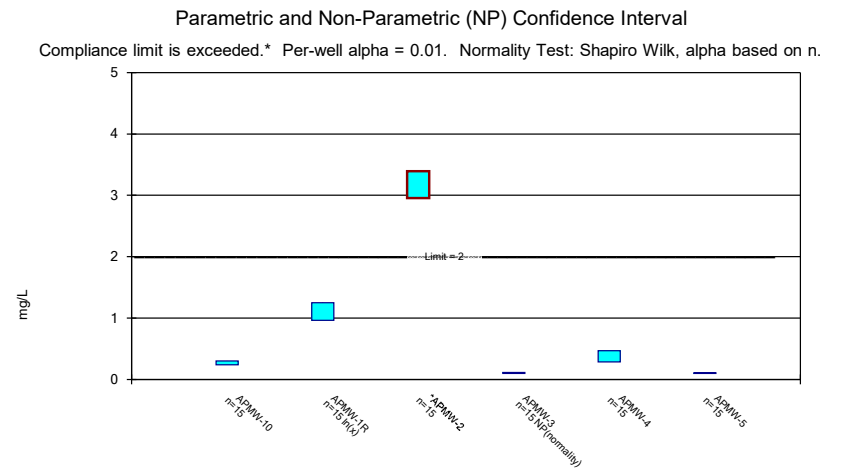
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR



Constituent: Arsenic Analysis Run 5/24/2022 1:34 PM View: Appendix IV - Confidence Intervals
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR



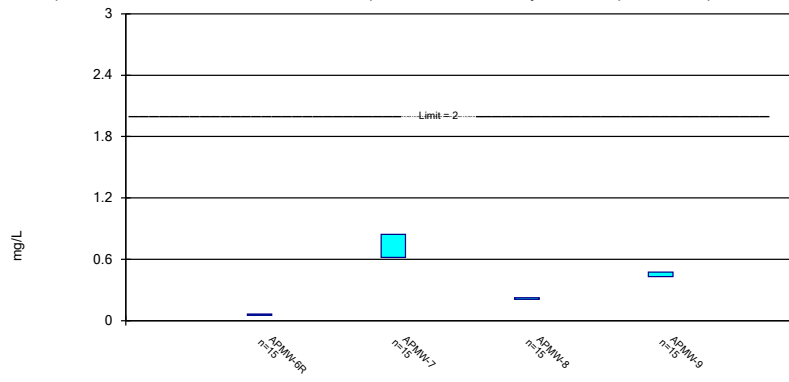
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR



Constituent: Barium Analysis Run 5/24/2022 1:34 PM View: Appendix IV - Confidence Intervals
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric Confidence Interval

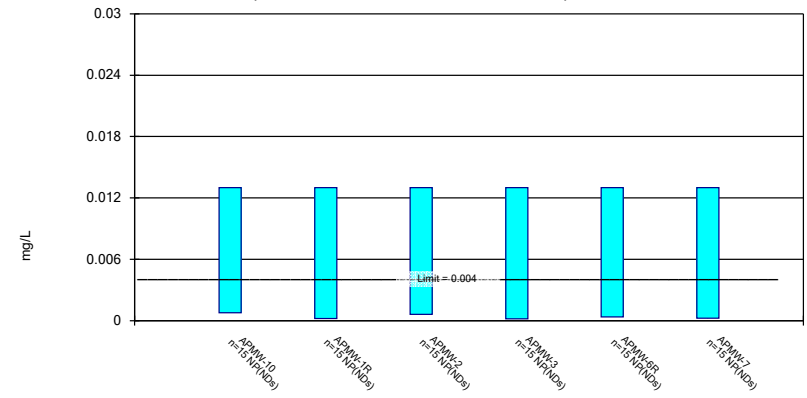
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Constituent: Barium Analysis Run 5/24/2022 1:34 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

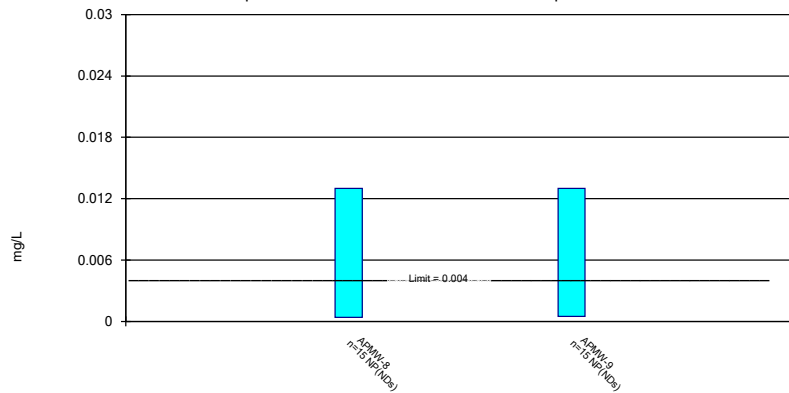
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Constituent: Beryllium Analysis Run 5/24/2022 1:34 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

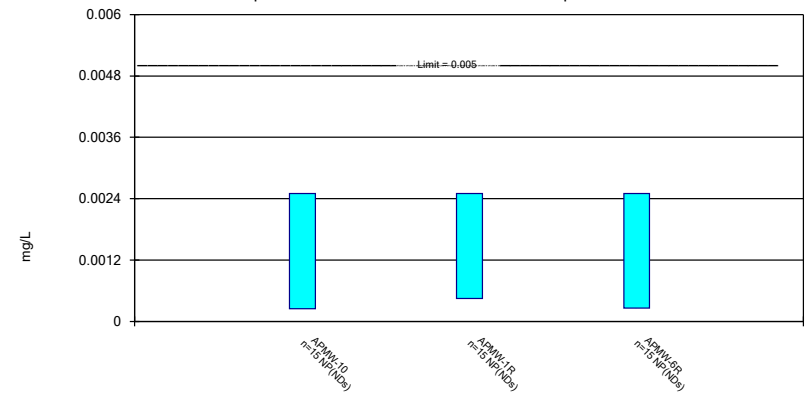
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Constituent: Beryllium Analysis Run 5/24/2022 1:34 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

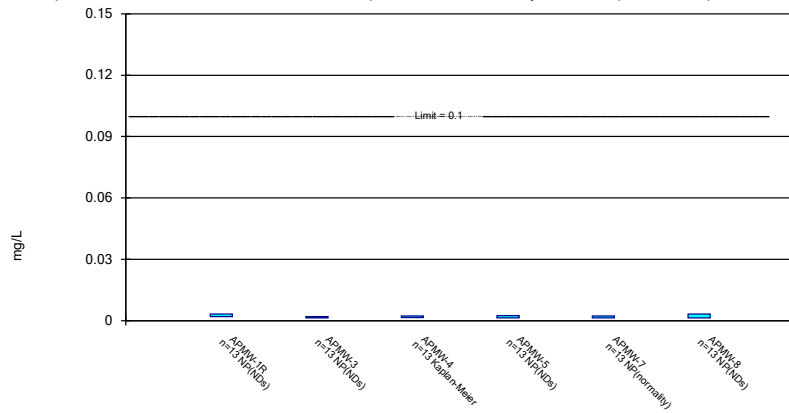
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Constituent: Cadmium Analysis Run 5/24/2022 1:34 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

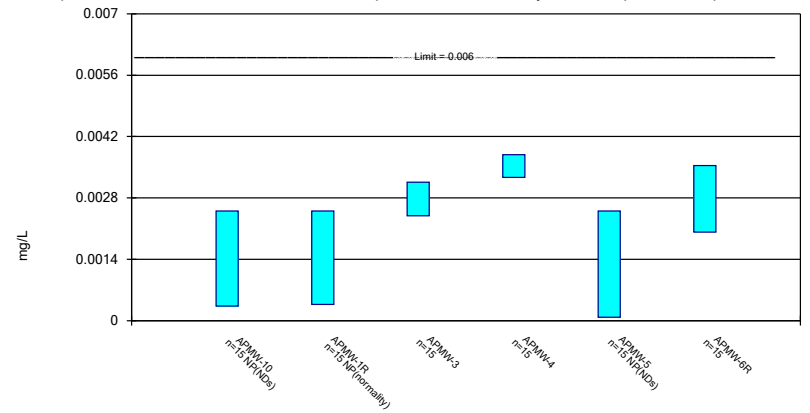
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Constituent: Chromium Analysis Run 5/24/2022 1:34 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

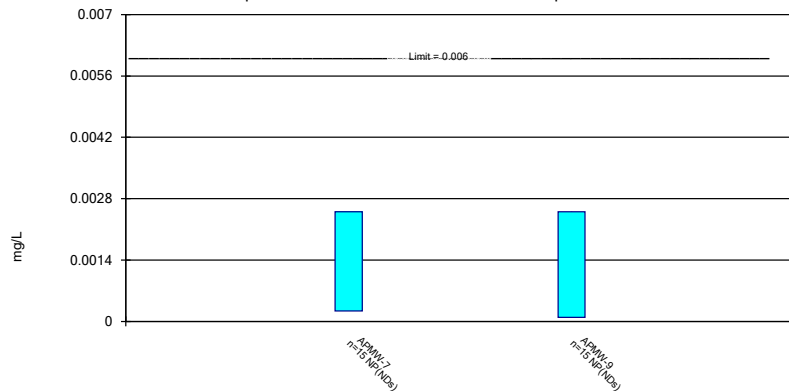
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Constituent: Cobalt Analysis Run 5/24/2022 1:34 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

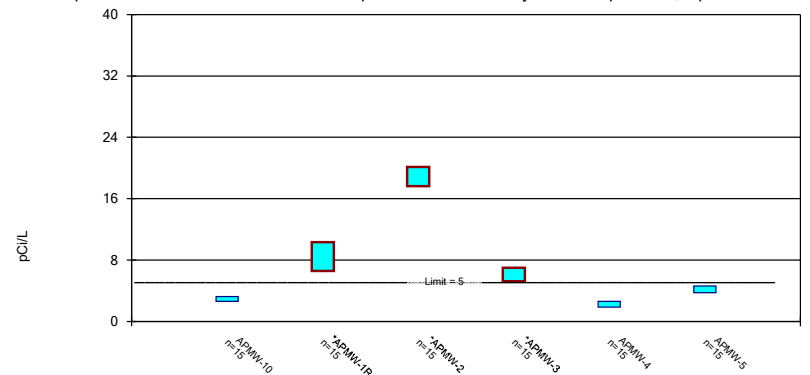
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Constituent: Cobalt Analysis Run 5/24/2022 1:34 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric Confidence Interval

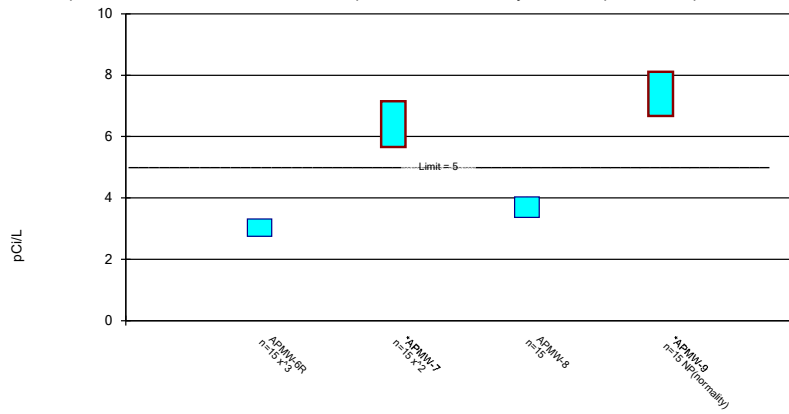
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Constituent: Combined Radium 226 + 228 Analysis Run 5/24/2022 1:34 PM View: Appendix IV - Confiden
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

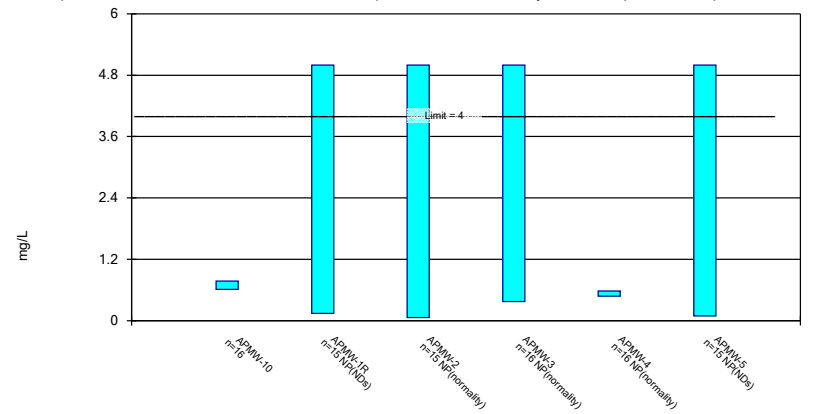
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Constituent: Combined Radium 226 + 228 Analysis Run 5/24/2022 1:34 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

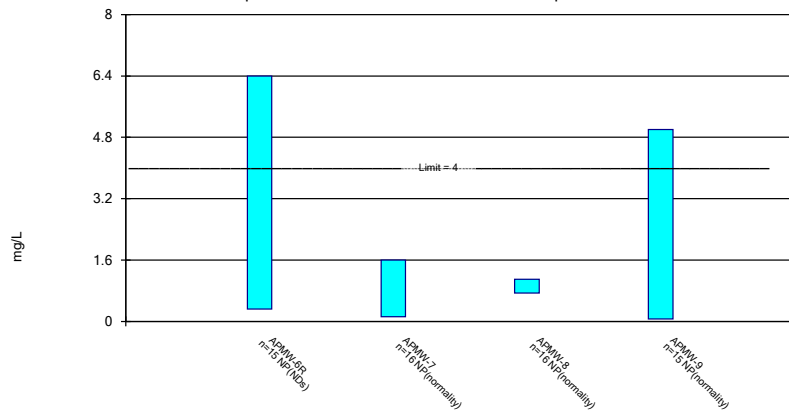
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Constituent: Fluoride Analysis Run 5/24/2022 1:34 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

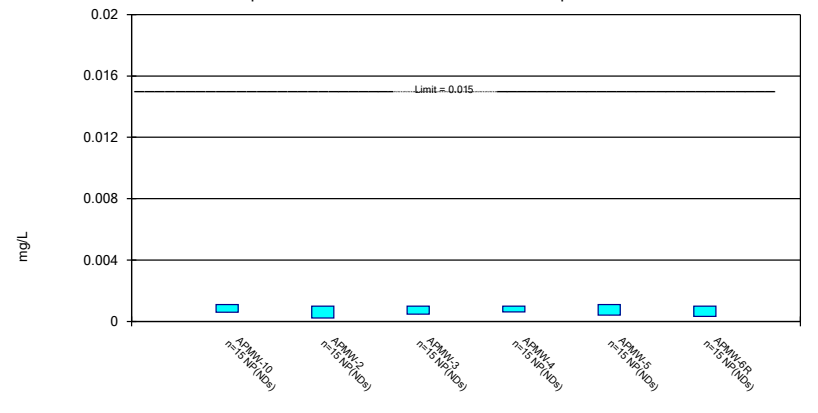
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Fluoride Analysis Run 5/24/2022 1:34 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

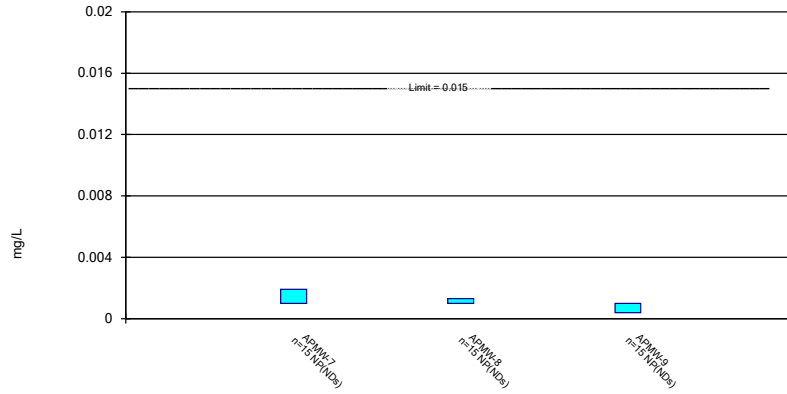
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 5/24/2022 1:34 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

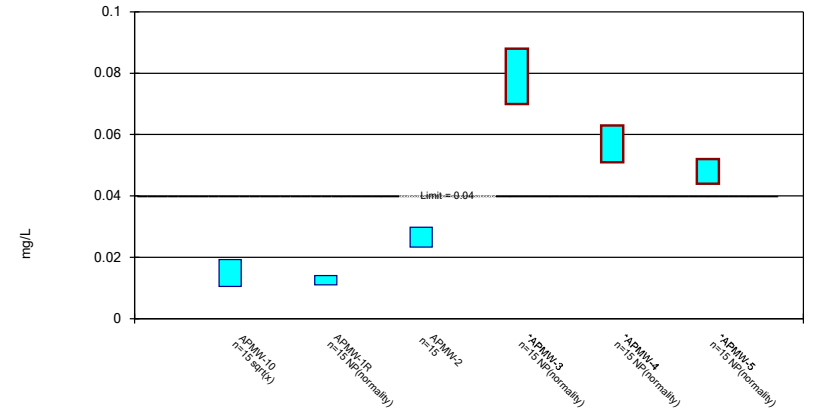
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 5/24/2022 1:34 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

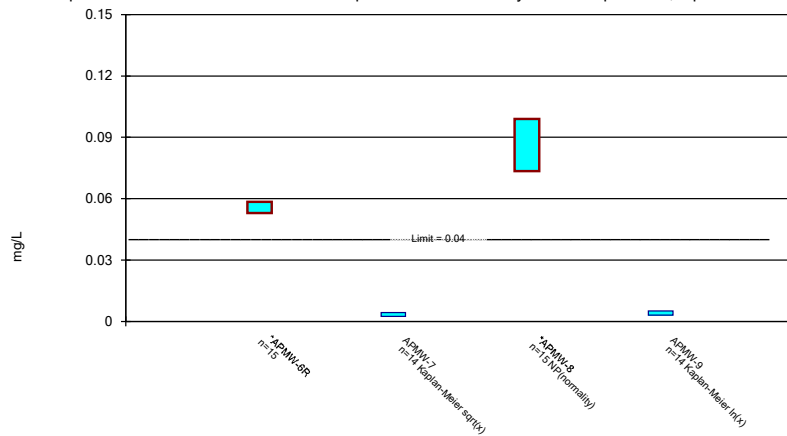
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/24/2022 1:34 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

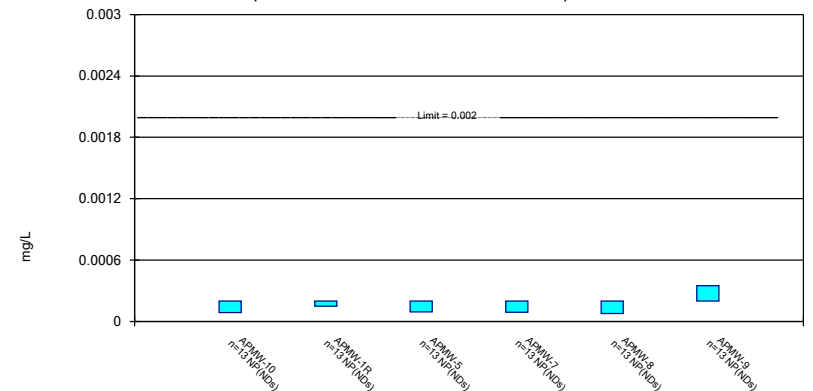
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/24/2022 1:34 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

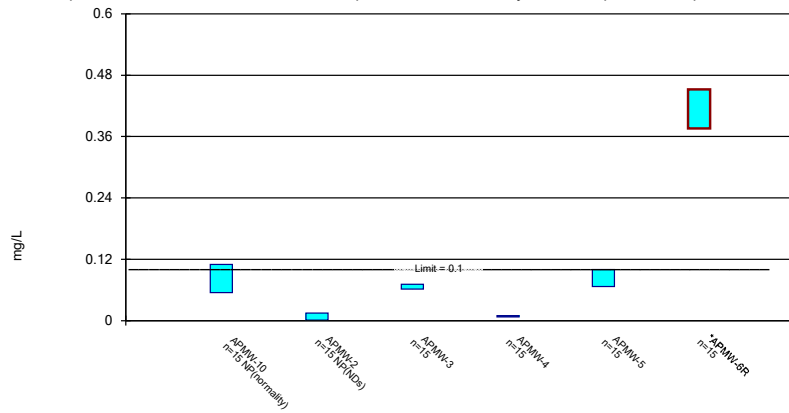
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 5/24/2022 1:34 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

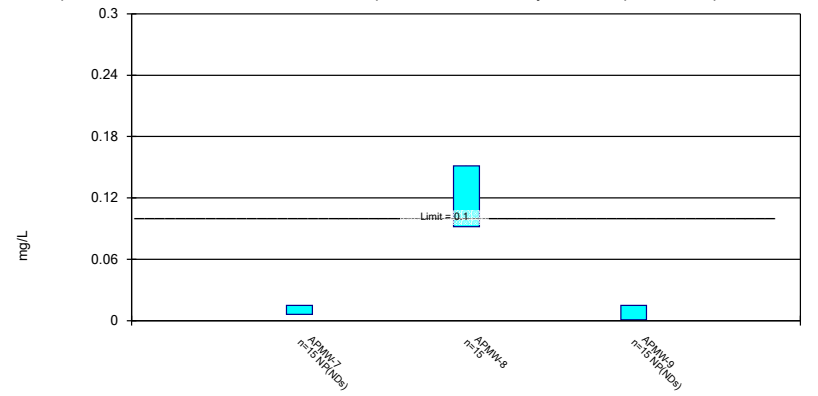
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 5/24/2022 1:34 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

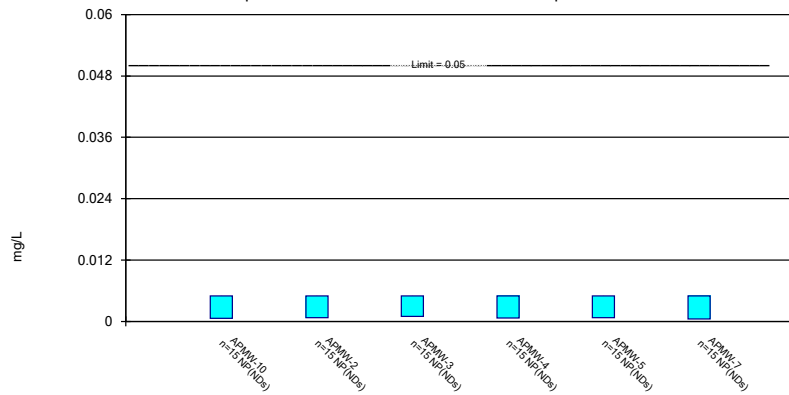
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 5/24/2022 1:34 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

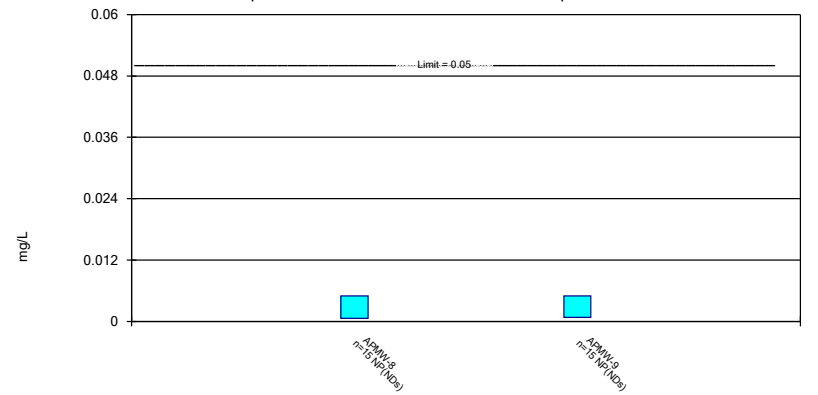
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 5/24/2022 1:34 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

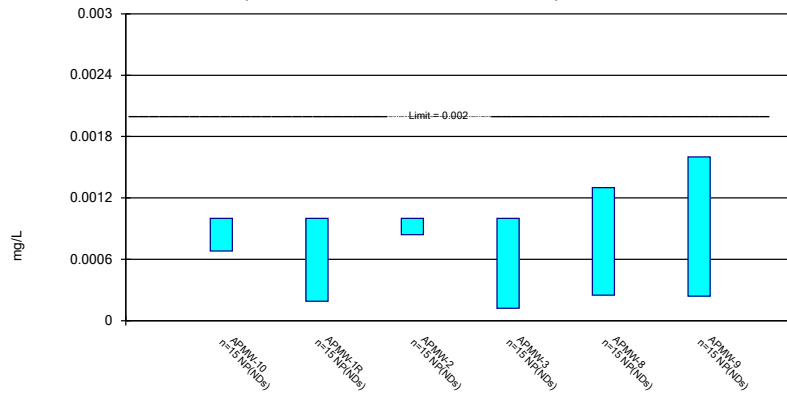
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 5/24/2022 1:34 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 5/24/2022 1:34 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/24/2022 1:37 PM View: Appendix IV - Confidence Intervals

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-8
4/24/2018	<0.002	
4/25/2018		<0.002
6/14/2018	<0.002	<0.002
7/23/2018		<0.002
7/24/2018	<0.002	
9/1/2018	<0.002	
9/6/2018		<0.002
10/1/2018	<0.002	
10/2/2018		<0.002
11/1/2018		<0.002
11/2/2018	<0.002	
12/6/2018		<0.002
12/7/2018	<0.002	
2/13/2019	<0.002	<0.002
8/8/2019	0.0014 (J)	
8/9/2019		<0.002
8/30/2019	<0.002	<0.002
3/16/2020	<0.002	
3/17/2020		<0.002
11/5/2020	<0.002	
11/9/2020		<0.002
3/8/2021	<0.002	
3/9/2021		<0.002
10/12/2021	<0.002	
10/21/2021		<0.002
4/5/2022	<0.002	
4/6/2022		0.00066 (J)
Mean	0.00196	0.001911
Std. Dev.	0.0001549	0.000346
Upper Lim.	0.002	0.002
Lower Lim.	0.0014	0.00066

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/24/2022 1:37 PM View: Appendix IV - Confidence Intervals

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-1R	APMW-2	APMW-3	APMW-4	APMW-5
4/24/2018			0.00077 (J)	0.084	0.019	
4/25/2018	0.13					0.24
6/13/2018	0.11					
6/14/2018			<0.001	0.081	0.018	0.22
7/23/2018	0.13					
7/24/2018			<0.001	0.093	0.018	0.23
9/1/2018	0.12		<0.001	0.099	0.017	0.22
10/1/2018			0.00094 (J)	0.077	0.017	
10/2/2018	0.11					0.21
11/1/2018	0.11					
11/2/2018			0.0012 (J)	0.067	0.018	0.26
12/6/2018	0.12				0.018	0.23
12/7/2018			<0.001	0.063		
2/13/2019	0.098		<0.001	0.065	0.019	0.23
3/16/2019		0.0021				
3/27/2019		0.0019				
4/3/2019		0.0019				
4/15/2019		0.0025				
5/2/2019		0.0019				
5/14/2019		0.0027				
5/28/2019		<0.001				
6/12/2019		0.0023				
8/8/2019	0.11	0.0012	0.00035 (J)	0.074		
8/9/2019					0.018	0.24
8/30/2019	0.079	0.0011	<0.001	0.07	0.016	0.2
3/16/2020		0.00085 (J)	<0.001	0.071	0.017	
3/17/2020	0.093					0.21
11/4/2020		0.00069 (J)				
11/5/2020			<0.001	0.064		
11/9/2020					0.018	0.26
11/20/2020	0.072					
3/8/2021	0.047	0.0005 (J)	<0.001			
3/9/2021				0.042	0.016	0.21
10/12/2021	0.028	<0.001	<0.001			0.21
10/14/2021					0.012	
10/21/2021				0.0445 (D)		
4/4/2022		0.0004 (J)				
4/5/2022	0.039		<0.001	0.047		
4/6/2022					0.011	0.21
Mean	0.09307	0.001403	0.000584	0.06943	0.0168	0.2253
Std. Dev.	0.03303	0.0008158	0.0002193	0.01654	0.002336	0.01846
Upper Lim.	0.1154	0.001955	0.00077	0.08064	0.01821	0.2378
Lower Lim.	0.07069	0.0008499	0.00035	0.05822	0.01607	0.2128

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/24/2022 1:37 PM View: Appendix IV - Confidence Intervals

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-9
4/25/2018		0.0021	0.097	0.0016
6/13/2018				0.001 (J)
6/14/2018		0.0015	0.089	
7/23/2018			0.094	0.0011 (J)
7/24/2018		0.0015		
9/6/2018		0.0013	0.082	0.0011 (J)
10/2/2018		0.0014	0.075	0.0015
11/1/2018			0.081	0.0014
11/2/2018		0.0028		
12/6/2018		0.0033	0.079	0.0016
2/13/2019		0.0012 (J)	0.077	0.0013
4/5/2019	0.13 (D)			
4/15/2019	0.13			
5/2/2019	0.089			
5/14/2019	0.13			
5/29/2019	0.12			
6/12/2019	0.13			
6/19/2019	0.16			
6/25/2019	0.13			
8/8/2019				0.0012
8/9/2019	0.16	0.00053 (J)	0.052	
8/30/2019	0.17	0.00044 (J)	0.05	0.0011
3/17/2020	0.18	0.00053 (J)	0.043	0.001
11/9/2020			0.036	
11/10/2020		0.00058 (J)		
11/20/2020	0.18			0.0012
3/8/2021				0.0015
3/9/2021	0.21	0.00045 (J)	0.035	
10/12/2021		0.00044 (J)		0.0013
10/20/2021	0.2 (D)			
10/21/2021			0.026 (D)	
4/6/2022		0.00048 (J)	0.023	0.0013
4/7/2022	0.21			
Mean	0.1553	0.001237	0.0626	0.00128
Std. Dev.	0.03616	0.0009066	0.0257	0.0002042
Upper Lim.	0.1798	0.0021	0.08001	0.001418
Lower Lim.	0.1308	0.00045	0.04519	0.001142

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/24/2022 1:37 PM View: Appendix IV - Confidence Intervals

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-1R	APMW-2	APMW-3	APMW-4	APMW-5
4/24/2018			2.8	0.097	0.46	
4/25/2018	0.26					0.093
6/13/2018	0.3					
6/14/2018			3.1	0.11	0.5	0.11
7/23/2018	0.24					
7/24/2018			3	0.1	0.54	0.093
9/1/2018	0.25		2.9	0.12	0.53	0.1
10/1/2018			4	0.1	0.5	
10/2/2018	0.23					0.1
11/1/2018	0.23					
11/2/2018			3.1	0.1	0.5	0.12
12/6/2018	0.24				0.43	0.1
12/7/2018			3.3	0.11		
2/13/2019	0.26		2.9	0.1	0.45	0.1
3/16/2019		0.89				
3/27/2019		1.1				
4/3/2019		1.1				
4/15/2019		0.98				
5/2/2019		0.94				
5/14/2019		1				
5/28/2019		1				
6/12/2019		0.91				
8/8/2019	0.24	0.93	3.2	0.1		
8/9/2019					0.33	0.11
8/30/2019	0.2	0.91	2.7	0.1	0.29	0.086
3/16/2020		1.2	3.2	0.1	0.27	
3/17/2020	0.25					0.1
11/4/2020		1.4				
11/5/2020			3.2	0.1		
11/9/2020					0.23	0.1
11/20/2020	0.27					
3/8/2021	0.32	1.3	3.3			
3/9/2021				0.1	0.22	0.1
10/12/2021	0.34	1.5	3.3			0.1
10/14/2021					0.21	
10/21/2021				0.095		
4/4/2022		1.6				
4/5/2022	0.37		3.6	0.098		
4/6/2022					0.17	0.11
Mean	0.2667	1.117	3.173	0.102	0.3753	0.1015
Std. Dev.	0.04624	0.2316	0.324	0.006425	0.1332	0.008288
Upper Lim.	0.298	1.252	3.393	0.11	0.4656	0.1071
Lower Lim.	0.2353	0.9613	2.954	0.098	0.285	0.09585

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/24/2022 1:37 PM View: Appendix IV - Confidence Intervals

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-9
4/25/2018		0.66	0.2	0.42
6/13/2018				0.45
6/14/2018		0.74	0.22	
7/23/2018			0.2	0.42
7/24/2018		0.72		
9/6/2018		0.79	0.22	0.45
10/2/2018		0.93	0.21	0.43
11/1/2018			0.21	0.43
11/2/2018		1.1		
12/6/2018		0.7	0.22	0.44
2/13/2019		0.59	0.23	0.44
4/5/2019	0.071 (D)			
4/15/2019	0.067			
5/2/2019	0.071			
5/14/2019	0.068			
5/29/2019	0.067 (J)			
6/12/2019	0.064 (J)			
6/19/2019	0.059 (J)			
6/25/2019	0.057 (J)			
8/8/2019				0.42
8/9/2019	0.058	0.76	0.2	
8/30/2019	0.052	0.56	0.2	0.42
3/17/2020	0.05	0.53	0.21	0.49
11/9/2020			0.23	
11/10/2020		0.77		
11/20/2020	0.048			0.48
3/8/2021				0.47
3/9/2021	0.055	0.53	0.22	
10/12/2021		0.97		0.49
10/20/2021	0.048			
10/21/2021			0.23	
4/6/2022		0.61	0.24	0.52
4/7/2022	0.043 (J)			
Mean	0.05853	0.7307	0.216	0.4513
Std. Dev.	0.009133	0.1668	0.01298	0.03159
Upper Lim.	0.06472	0.8437	0.2248	0.4727
Lower Lim.	0.05234	0.6176	0.2072	0.4299

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/24/2022 1:37 PM View: Appendix IV - Confidence Intervals

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-1R	APMW-2	APMW-3	APMW-6R	APMW-7
4/24/2018			<0.013	<0.013		
4/25/2018	<0.013					<0.013
6/13/2018	<0.013					
6/14/2018			<0.013	<0.013		<0.013
7/23/2018	<0.013					
7/24/2018			<0.013	<0.013		<0.013
9/1/2018	<0.013		<0.013	<0.013		
9/6/2018						<0.013
10/1/2018			<0.013	<0.013		
10/2/2018	<0.013					<0.013
11/1/2018	<0.013					
11/2/2018			<0.013	<0.013		<0.013
12/6/2018	<0.013					<0.013
12/7/2018			<0.013	<0.013		
2/13/2019	<0.013		<0.013	<0.013		<0.013
3/16/2019		<0.013				
3/27/2019		<0.013				
4/3/2019		<0.013				
4/5/2019					<0.013 (D)	
4/15/2019		<0.013			<0.013	
5/2/2019		<0.013			<0.013	
5/14/2019		<0.013			<0.013	
5/28/2019		<0.013				
5/29/2019					<0.013	
6/12/2019		<0.013			<0.013	
6/19/2019					<0.013	
6/25/2019					<0.013	
8/8/2019	<0.013	<0.013	0.00061 (J)	<0.013		
8/9/2019					<0.013	<0.013
8/30/2019	0.00043 (J)	0.00019 (J)	0.00023 (J)	0.00018 (J)	0.00036 (J)	0.00025 (J)
3/16/2020		<0.013	<0.013	<0.013		
3/17/2020	<0.013				<0.013	<0.013
11/4/2020		<0.013				
11/5/2020			<0.013	<0.013		
11/10/2020						<0.013
11/20/2020	<0.013				<0.013	
3/8/2021	0.00076 (J)	<0.013	0.00018 (J)			
3/9/2021				<0.013	<0.013	<0.013
10/12/2021	<0.013	<0.013	<0.013			<0.013
10/20/2021					<0.013	
10/21/2021				<0.013		
4/4/2022		<0.013				
4/5/2022	<0.013		<0.013	<0.013		
4/6/2022						<0.013
4/7/2022					<0.013	
Mean	0.01135	0.01215	0.01047	0.01215	0.01216	0.01215
Std. Dev.	0.004365	0.003308	0.005242	0.00331	0.003264	0.003292
Upper Lim.	0.013	0.013	0.013	0.013	0.013	0.013
Lower Lim.	0.00076	0.00019	0.00061	0.00018	0.00036	0.00025

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/24/2022 1:37 PM View: Appendix IV - Confidence Intervals

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-8	APMW-9
4/25/2018	<0.013	<0.013
6/13/2018		<0.013
6/14/2018	<0.013	
7/23/2018	<0.013	<0.013
9/6/2018	<0.013	<0.013
10/2/2018	<0.013	<0.013
11/1/2018	<0.013	<0.013
12/6/2018	<0.013	<0.013
2/13/2019	<0.013	<0.013
8/8/2019		<0.013
8/9/2019	<0.013	
8/30/2019	0.00038 (J)	0.00049 (J)
3/17/2020	<0.013	<0.013
11/9/2020	<0.013	
11/20/2020		<0.013
3/8/2021		0.00024 (J)
3/9/2021	<0.013	
10/12/2021		<0.013
10/21/2021	<0.013	
4/6/2022	<0.013	<0.013
Mean	0.01216	0.01132
Std. Dev.	0.003258	0.004446
Upper Lim.	0.013	0.013
Lower Lim.	0.00038	0.00049

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/24/2022 1:37 PM View: Appendix IV - Confidence Intervals

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-1R	APMW-6R
4/25/2018	<0.0025		
6/13/2018	<0.0025		
7/23/2018	<0.0025		
9/1/2018	<0.0025		
10/2/2018	<0.0025		
11/1/2018	<0.0025		
12/6/2018	<0.0025		
2/13/2019	<0.0025		
3/16/2019		<0.0025	
3/27/2019		<0.0025	
4/3/2019		<0.0025	
4/5/2019			<0.0025 (D)
4/15/2019		0.00045 (J)	<0.0025
5/2/2019		<0.0025	<0.0025
5/14/2019		<0.0025	<0.0025
5/28/2019		<0.0025	
5/29/2019			<0.0025
6/12/2019		<0.0025	<0.0025
6/19/2019			<0.0025
6/25/2019			<0.0025
8/8/2019	<0.0025	<0.0025	
8/9/2019			0.00014 (J)
8/30/2019	<0.0025	<0.0025	0.00026 (J)
3/16/2020		<0.0025	
3/17/2020	<0.0025		<0.0025
11/4/2020		<0.0025	
11/20/2020	<0.0025		<0.0025
3/8/2021	0.00025 (J)	<0.0025	
3/9/2021			<0.0025
10/12/2021	<0.0025	<0.0025	
10/20/2021			<0.0025
4/4/2022		<0.0025	
4/5/2022	<0.0025		
4/7/2022			<0.0025
Mean	0.00235	0.002363	0.002193
Std. Dev.	0.0005809	0.0005293	0.0008096
Upper Lim.	0.0025	0.0025	0.0025
Lower Lim.	0.00025	0.00045	0.00026

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/24/2022 1:37 PM View: Appendix IV - Confidence Intervals

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-1R	APMW-3	APMW-4	APMW-5	APMW-7	APMW-8
4/24/2018		<0.002	0.0016 (J)			
4/25/2018				0.0013 (J)	0.0014 (J)	<0.002
6/14/2018		<0.002	0.002 (J)	0.0012 (J)	0.0014 (J)	0.0032
7/23/2018						<0.002
7/24/2018		<0.002	0.0022 (J)	<0.002	0.0014 (J)	
9/1/2018		0.0014 (J)	0.0025	0.0024 (J)		
9/6/2018					0.0017 (J)	0.0014 (J)
10/1/2018		<0.002	0.0028			
10/2/2018				0.0015 (J)	0.0013 (J)	<0.002
11/1/2018						<0.002
11/2/2018		<0.002	0.0026	0.0014 (J)	0.0014 (J)	
12/6/2018			0.0012 (J)	<0.002	<0.002	<0.002
12/7/2018		<0.002				
2/13/2019		<0.002	0.0013 (J)	<0.002	<0.002	<0.002
3/16/2019	<0.002					
3/27/2019	<0.002					
4/3/2019	<0.002					
4/15/2019	<0.002					
5/2/2019	<0.002					
5/14/2019	<0.002					
5/28/2019	<0.002					
6/12/2019	0.0032					
8/8/2019	<0.002	<0.002				
8/9/2019			<0.002	<0.002	<0.002	<0.002
11/4/2020	<0.002					
11/5/2020		<0.002				
11/9/2020			<0.002	<0.002		<0.002
11/10/2020					<0.002	
3/8/2021	<0.002					
3/9/2021		<0.002	<0.002	<0.002	0.0022	<0.002
10/12/2021	<0.002			<0.002	<0.002	
10/14/2021			<0.002			
10/21/2021		<0.002				<0.002
4/4/2022	<0.002					
4/5/2022		<0.002				
4/6/2022			<0.002	<0.002	<0.002	<0.002
Mean	0.002092	0.001954	0.002015	0.001831	0.001754	0.002046
Std. Dev.	0.0003328	0.0001664	0.0004634	0.0003568	0.0003256	0.0003843
Upper Lim.	0.0032	0.002	0.002236	0.0024	0.0022	0.0032
Lower Lim.	0.002	0.0014	0.001429	0.0013	0.0014	0.0014

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/24/2022 1:37 PM View: Appendix IV - Confidence Intervals

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-1R	APMW-3	APMW-4	APMW-5	APMW-6R
4/24/2018			0.0026	0.0033		
4/25/2018	<0.0025				<0.0025	
6/13/2018	<0.0025					
6/14/2018			0.0023 (J)	0.0032	<0.0025	
7/23/2018	<0.0025					
7/24/2018			0.0026	0.0036	<0.0025	
9/1/2018	<0.0025		0.0023 (J)	0.0039	<0.0025	
10/1/2018			0.0028	0.0029		
10/2/2018	<0.0025				<0.0025	
11/1/2018	<0.0025					
11/2/2018			0.0027	0.0034	<0.0025	
12/6/2018	<0.0025			0.0032	<0.0025	
12/7/2018			0.0028			
2/13/2019	<0.0025		0.0028	0.0043	<0.0025	
3/16/2019		0.00057 (J)				
3/27/2019		0.00044 (J)				
4/3/2019		0.0004 (J)				
4/5/2019						0.0049 (D)
4/15/2019		0.00042 (J)				0.0045
5/2/2019		<0.0025				0.0012 (J)
5/14/2019		0.00044 (J)				0.0024 (J)
5/28/2019		<0.0025				
5/29/2019						0.0022 (J)
6/12/2019		0.00037 (J)				0.002 (J)
6/19/2019						0.004 (J)
6/25/2019						0.0014 (J)
8/8/2019	0.00012 (J)	0.00017 (J)	0.0019			
8/9/2019				0.0034	7.5E-05 (J)	0.0022
8/30/2019	8.2E-05 (J)	0.00017 (J)	0.0025	0.0034	7.9E-05 (J)	0.0039
3/16/2020		<0.0025	0.0022	0.0039		
3/17/2020	<0.0025				<0.0025	0.0029
11/4/2020		<0.0025				
11/5/2020			0.003			
11/9/2020				0.0037	<0.0025	
11/20/2020	<0.0025					0.0024 (J)
3/8/2021	0.00033 (J)	<0.0025				
3/9/2021			0.0034	0.0041	<0.0025	0.0017 (J)
10/12/2021	<0.0025	<0.0025			<0.0025	
10/14/2021				0.0032		
10/20/2021						0.0032
10/21/2021			0.004			
4/4/2022		<0.0025				
4/5/2022	<0.0025		0.0037			
4/6/2022				0.0034	<0.0025	
4/7/2022						0.0028
Mean	0.002035	0.001365	0.002773	0.003527	0.002177	0.00278
Std. Dev.	0.000963	0.001103	0.0005663	0.0003845	0.0008526	0.001119
Upper Lim.	0.0025	0.0025	0.003157	0.003787	0.0025	0.003538
Lower Lim.	0.00033	0.00037	0.00239	0.003266	7.9E-05	0.002022

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/24/2022 1:37 PM View: Appendix IV - Confidence Intervals

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-7	APMW-9
4/25/2018	<0.0025	<0.0025
6/13/2018		<0.0025
6/14/2018	<0.0025	
7/23/2018		<0.0025
7/24/2018	<0.0025	
9/6/2018	0.00043 (J)	<0.0025
10/2/2018	<0.0025	<0.0025
11/1/2018		<0.0025
11/2/2018	<0.0025	
12/6/2018	<0.0025	<0.0025
2/13/2019	<0.0025	<0.0025
8/8/2019		8.4E-05 (J)
8/9/2019	0.00025 (J)	
8/30/2019	0.00023 (J)	8.9E-05 (J)
3/17/2020	0.00024 (J)	<0.0025
11/10/2020	0.00024 (J)	
11/20/2020		<0.0025
3/8/2021		<0.0025
3/9/2021	0.00025 (J)	
10/12/2021	0.00028 (J)	<0.0025
4/6/2022	<0.0025	<0.0025
Mean	0.001461	0.002178
Std. Dev.	0.00115	0.0008492
Upper Lim.	0.0025	0.0025
Lower Lim.	0.00024	8.9E-05

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/24/2022 1:37 PM View: Appendix IV - Confidence Intervals

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-1R	APMW-2	APMW-3	APMW-4	APMW-5
4/24/2018			21.8	5.84	2.4	
4/25/2018	2.66					3.67
6/13/2018	2.91					
6/14/2018			20.9	6.37	2.5	4.18
7/23/2018	3.49					
7/24/2018			19.2	7.22	3.01	4.95
9/1/2018	3.15		17.5	5.46	2.3	4.44
10/1/2018			19.9	8.54	3.49	
10/2/2018	3.38					4.79
11/1/2018	2.19					
11/2/2018			17.4	6.02	1.94	4
12/6/2018	2.69				2.68	5.01
12/7/2018			18.5	6.26		
2/13/2019	2.97		19.2	6.67	2.05	4.53
3/16/2019		5.87				
3/27/2019		6.56				
4/3/2019		7.03				
4/15/2019		6.75				
5/2/2019		6.82				
5/14/2019		6.96				
5/28/2019		4.12				
6/12/2019		8.8				
8/8/2019	2.16	7.52	18.7	6.41		
8/9/2019					2.09	3.81
8/30/2019	2.19	7.98	16.5	5.45	1.24	2.82
3/16/2020		10.6	18.8	6.5	1.71	
3/17/2020	2.94					4.23
11/4/2020		8.99				
11/5/2020			15.3	5.33		
11/9/2020					2	3.42
11/20/2020	3.47					
3/8/2021	2.86	14.2	21.4			
3/9/2021				2.68	2.08	4.01
10/12/2021	3.57	12	20.6			3.74
10/14/2021					2.56	
10/21/2021				5.6		
4/4/2022		12.5				
4/5/2022	3.1		17.4	7.45		
4/6/2022					1.71	5.09
Mean	2.915	8.447	18.87	6.12	2.251	4.179
Std. Dev.	0.4718	2.764	1.854	1.286	0.5568	0.6411
Upper Lim.	3.235	10.32	20.13	6.991	2.628	4.614
Lower Lim.	2.596	6.574	17.62	5.249	1.873	3.745

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/24/2022 1:37 PM View: Appendix IV - Confidence Intervals

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-9
4/25/2018		5.8	3.26	6.49
6/13/2018				6.43
6/14/2018		5.94	3.41	
7/23/2018			4.02	6.82
7/24/2018		6.56		
9/6/2018		7.39	3.86	7.4
10/2/2018		8.19	4.63	7.43
11/1/2018			3.37	6.67
11/2/2018		5.87		
12/6/2018		6.64	3.92	6.92
2/13/2019		6.19	3.66	6.91
4/5/2019	2.85			
4/15/2019	3.24			
5/2/2019	3			
5/14/2019	3.2			
5/29/2019	2.88			
6/12/2019	3.04			
6/19/2019	3.59			
6/25/2019	3.61			
8/8/2019				6.71
8/9/2019	3.14	6.86	3.52	
8/30/2019	2.52	6.63	3.96	7.32
3/17/2020	3.16	5.37	3.43	7.36
11/9/2020			2.55	
11/10/2020		6.91		
11/20/2020	3.32			8.11
3/8/2021				9.26
3/9/2021	0.234 (U)	2.66	3.52	
10/12/2021		7.77		8.92
10/20/2021	2.8			
10/21/2021			4.05	
4/6/2022		6.15	4.27	6.93
4/7/2022	3.12			
Mean	2.914	6.329	3.695	7.312
Std. Dev.	0.7941	1.271	0.4931	0.844
Upper Lim.	3.315	7.15	4.029	8.11
Lower Lim.	2.752	5.657	3.361	6.67

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/24/2022 1:37 PM View: Appendix IV - Confidence Intervals

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-1R	APMW-2	APMW-3	APMW-4	APMW-5
4/24/2018			0.06 (J)	0.33	0.52	
4/25/2018	0.69					0.09 (J)
6/13/2018	0.64					
6/14/2018			0.06 (J)	0.37	0.51	0.09 (J)
7/23/2018	0.76					
7/24/2018			0.07 (J)	0.42	0.52	0.09 (J)
9/1/2018	0.81		0.08 (J)	0.45	0.54	0.1
10/1/2018			0.07 (J)	0.39	0.54	
10/2/2018	0.78					0.09 (J)
11/1/2018	0.88					
11/2/2018			0.08 (J)	0.42	0.58	0.11
12/6/2018	0.75				0.51	1.4 (o)
12/7/2018			4.3 (o)	0.64		
2/13/2019	0.72		0.05 (J)	0.35	0.48	0.07 (J)
3/16/2019		<5				
3/27/2019		<5				
4/3/2019		<5				
4/4/2019	0.63					<5
4/5/2019			0.14 (J)	0.7 (J)	0.31 (J)	
4/15/2019		0.14 (J)				
5/2/2019		0.13 (J)				
5/14/2019		<5				
5/28/2019		0.16 (J)				
6/12/2019		<5				
8/8/2019	0.58	0.21 (J)	0.19 (J)	0.8 (J)		
8/9/2019					0.51	<5
8/30/2019	0.5	0.21 (J)	0.17 (J)	<5	0.54 (J)	<5
3/16/2020		<5	<5	<5	<5	
3/17/2020	0.38					<5
11/4/2020		<5				
11/5/2020			<5	<5		
11/9/2020					<5	<5
11/20/2020	0.81					
3/8/2021	0.66	<5	<5			
3/9/2021				0.87 (J)	0.55 (J)	<5
10/12/2021	0.66	0.27 (J)	0.22 (J)			<5
10/14/2021					0.5 (J)	
10/21/2021				<5		
4/4/2022		0.13 (J)				
4/5/2022	0.82		<5	<5		
4/6/2022					0.36 (J)	<5
Mean	0.6919	2.75	1.413	1.921	1.061	2.709
Std. Dev.	0.1295	2.49	2.24	2.15	1.539	2.535
Upper Lim.	0.7761	5	5	5	0.58	5
Lower Lim.	0.6076	0.14	0.06	0.37	0.48	0.09

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/24/2022 1:37 PM View: Appendix IV - Confidence Intervals

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-9
4/25/2018		0.11	1	0.06 (J)
6/13/2018				0.06 (J)
6/14/2018		0.12	1	
7/23/2018			1	0.06 (J)
7/24/2018		0.12		
9/6/2018		0.13	1.1	0.06 (J)
10/2/2018		0.13	1	0.07 (J)
11/1/2018			1.1	0.07 (J)
11/2/2018		0.14		
12/6/2018		0.13	0.98	0.21 (o)
2/13/2019		0.1	0.98	0.07 (J)
4/4/2019		<5	0.58 (J)	<5
4/5/2019	<5 (D)			
4/15/2019	<5			
5/2/2019	<5			
5/14/2019	<5			
5/29/2019	<5			
6/12/2019	<5			
6/19/2019	<5			
6/25/2019	0.32 (J)			
8/8/2019				0.2 (J)
8/9/2019	<5	0.22 (J)	0.9 (J)	
8/30/2019	0.27 (J)	0.41 (J)	0.85 (J)	0.18 (J)
3/17/2020	<5	1.6	0.52 (J)	<5
11/9/2020			0.74 (J)	
11/10/2020		<5		
11/20/2020	<5			<5
3/8/2021				<5
3/9/2021	<5	0.26 (J)	1.1 (J)	
10/12/2021		<5		<5
10/20/2021	0.29 (J)			
10/21/2021			1 (J)	
4/6/2022		1.2 (J)	16	0.82 (J)
4/7/2022	6.4			
Mean	4.152	1.229	1.866	1.777
Std. Dev.	2.029	1.919	3.773	2.367
Upper Lim.	6.4	1.6	1.1	5
Lower Lim.	0.32	0.12	0.74	0.06

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/24/2022 1:37 PM View: Appendix IV - Confidence Intervals

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-2	APMW-3	APMW-4	APMW-5	APMW-6R
4/24/2018		<0.001	<0.001	<0.001		
4/25/2018	<0.001				<0.001	
6/13/2018	<0.001					
6/14/2018		<0.001	<0.001	<0.001	<0.001	
7/23/2018	<0.001					
7/24/2018		<0.001	<0.001	<0.001	<0.001	
9/1/2018	<0.001	<0.001	<0.001	<0.001	<0.001	
10/1/2018		<0.001	<0.001	<0.001		
10/2/2018	<0.001				<0.001	
11/1/2018	0.0011 (J)					
11/2/2018		<0.001	0.00048 (J)	0.00062 (J)	0.0011 (J)	
12/6/2018	0.0006 (J)			<0.001	0.00041 (J)	
12/7/2018		<0.001	<0.001			
2/13/2019	<0.001	<0.001	<0.001	<0.001	0.00036 (J)	
4/5/2019						<0.001 (D)
4/15/2019						<0.001
5/2/2019						<0.001
5/14/2019						<0.001
5/29/2019						<0.001
6/12/2019						<0.001
6/19/2019						<0.001
6/25/2019						<0.001
8/8/2019	<0.001	<0.001	<0.001			
8/9/2019				<0.001	<0.001	<0.001
8/30/2019	<0.001	<0.001	<0.001	<0.001	<0.001	0.00032 (J)
3/16/2020		<0.001	<0.001	<0.001		
3/17/2020	<0.001				<0.001	<0.001
11/5/2020		<0.001	<0.001			
11/9/2020				<0.001	<0.001	
11/20/2020	<0.001					<0.001
3/8/2021	0.00016 (J)	<0.001				
3/9/2021			<0.001	<0.001	<0.001	<0.001
10/12/2021	<0.001	<0.001			<0.001	
10/14/2021				<0.001		
10/20/2021						<0.001
10/21/2021			<0.001			
4/5/2022	0.00019 (J)	0.00022 (J)	0.00043 (J)			
4/6/2022				<0.001	<0.001	
4/7/2022						<0.001
Mean	0.00087	0.000948	0.0009273	0.0009747	0.0009247	0.0009547
Std. Dev.	0.0003022	0.0002014	0.000192	9.812E-05	0.0002208	0.0001756
Upper Lim.	0.0011	0.001	0.001	0.001	0.0011	0.001
Lower Lim.	0.0006	0.00022	0.00048	0.00062	0.00041	0.00032

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/24/2022 1:37 PM View: Appendix IV - Confidence Intervals

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-7	APMW-8	APMW-9
4/25/2018	<0.001	<0.001	<0.001
6/13/2018			<0.001
6/14/2018	<0.001	<0.001	
7/23/2018		<0.001	<0.001
7/24/2018	<0.001		
9/6/2018	<0.001	<0.001	<0.001
10/2/2018	<0.001	<0.001	<0.001
11/1/2018		0.0016	<0.001
11/2/2018	0.0019		
12/6/2018	<0.001	0.0013	0.00039 (J)
2/13/2019	<0.001	<0.001	<0.001
8/8/2019			0.00013 (J)
8/9/2019	<0.001	<0.001	
8/30/2019	<0.001	<0.001	<0.001
3/17/2020	<0.001	<0.001	<0.001
11/9/2020		<0.001	
11/10/2020	<0.001		
11/20/2020			<0.001
3/8/2021			<0.001
3/9/2021	<0.001	<0.001	
10/12/2021	<0.001		<0.001
10/21/2021		<0.001	
4/6/2022	<0.001	<0.001	<0.001
Mean	0.00106	0.00106	0.0009013
Std. Dev.	0.0002324	0.0001682	0.000265
Upper Lim.	0.0019	0.0013	0.001
Lower Lim.	0.001	0.001	0.00039

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/24/2022 1:37 PM View: Appendix IV - Confidence Intervals

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-1R	APMW-2	APMW-3	APMW-4	APMW-5
4/24/2018			0.029	0.11	0.079	
4/25/2018	0.021					0.069
6/13/2018	0.013					
6/14/2018			0.023	0.073	0.055	0.046
7/23/2018	0.015					
7/24/2018			0.023	0.079	0.057	0.049
9/1/2018	0.015		0.022	0.088	0.054	0.045
10/1/2018			0.026	0.091	0.063	
10/2/2018	0.017					0.052
11/1/2018	0.038					
11/2/2018			0.024 (J)	0.081	0.077	0.074
12/6/2018	0.011				0.054	0.044
12/7/2018			0.022	0.072		
2/13/2019	0.012		0.02	0.071	0.053	0.045
3/16/2019		0.013				
3/27/2019		0.014				
4/3/2019		0.01				
4/15/2019		0.012				
5/2/2019		0.013				
5/14/2019		0.011				
5/28/2019		<0.005				
6/12/2019		0.012				
8/8/2019	0.018	0.012	0.031	0.076		
8/9/2019					0.061	0.049
8/30/2019	0.01	0.011	0.022	0.072	0.052	0.044
3/16/2020		0.013	0.03	0.07	0.053	
3/17/2020	0.017					0.044
11/4/2020		0.014				
11/5/2020			0.031	0.07		
11/9/2020					0.049	0.044
11/20/2020	0.013					
3/8/2021	0.01	0.013	0.03			
3/9/2021				0.075	0.051	0.048
10/12/2021	0.0056	0.014	0.028			0.039
10/14/2021					0.052	
10/21/2021				0.0665 (D)		
4/4/2022		0.023 (J)				
4/5/2022	0.012		0.037	0.081		
4/6/2022					0.046	0.046
Mean	0.01517	0.0125	0.02653	0.07837	0.05707	0.0492
Std. Dev.	0.007377	0.004049	0.004764	0.01111	0.00949	0.009578
Upper Lim.	0.0192	0.014	0.02976	0.088	0.063	0.052
Lower Lim.	0.01047	0.011	0.02331	0.07	0.051	0.044

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/24/2022 1:37 PM View: Appendix IV - Confidence Intervals

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-9
4/25/2018		0.004 (J)	0.13	0.0039 (J)
6/13/2018				0.0027 (J)
6/14/2018		0.0026 (J)	0.085	
7/23/2018			0.09	0.0041 (J)
7/24/2018		0.003 (J)		
9/6/2018		0.0029 (J)	0.099	0.0035 (J)
10/2/2018		0.0021 (J)	0.095	0.004 (J)
11/1/2018			0.16	0.018 (o)
11/2/2018		0.014 (o)		
12/6/2018		<0.005	0.082	<0.005
2/13/2019		0.0018 (J)	0.08	0.0026 (J)
4/5/2019	0.051 (D)			
4/15/2019	0.054			
5/2/2019	0.055			
5/14/2019	0.047			
5/29/2019	0.055			
6/12/2019	0.062			
6/19/2019	0.059			
6/25/2019	0.052			
8/8/2019				0.0053
8/9/2019	0.063	<0.005	0.086	
8/30/2019	0.059	<0.005	0.068	<0.005
3/17/2020	0.056	0.0071	0.08	0.0077
11/9/2020			0.08	
11/10/2020		0.0048 (J)		
11/20/2020	0.055			0.0035 (J)
3/8/2021				0.0045 (J)
3/9/2021	0.057	0.004 (J)	0.073	
10/12/2021		0.0036 (J)		<0.005
10/20/2021	0.0535 (D)			
10/21/2021			0.0735 (D)	
4/6/2022		0.0043 (J)	0.075	0.0084
4/7/2022	0.057			
Mean	0.0557	0.003407	0.09043	0.004121
Std. Dev.	0.004131	0.001385	0.02432	0.001875
Upper Lim.	0.0585	0.004294	0.099	0.005143
Lower Lim.	0.0529	0.002501	0.0735	0.003092

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 5/24/2022 1:37 PM View: Appendix IV - Confidence Intervals

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-1R	APMW-5	APMW-7	APMW-8	APMW-9
4/25/2018	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
6/13/2018	<0.0002					<0.0002
6/14/2018			<0.0002	<0.0002	<0.0002	
7/23/2018	<0.0002				<0.0002	<0.0002
7/24/2018			<0.0002	<0.0002		
9/1/2018	8.5E-05 (J)		9.3E-05 (J)			
9/6/2018				9E-05 (J)	7.7E-05 (J)	0.00035
10/2/2018	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
11/1/2018	<0.0002				<0.0002	<0.0002
11/2/2018			<0.0002	<0.0002		
12/6/2018	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
2/13/2019	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
3/16/2019		<0.0002				
3/27/2019		<0.0002				
4/3/2019		<0.0002				
4/15/2019		0.00015 (J)				
5/2/2019		<0.0002				
5/14/2019		<0.0002				
5/28/2019		<0.0002				
6/12/2019		<0.0002				
8/8/2019	<0.0002	<0.0002				<0.0002
8/9/2019			<0.0002	<0.0002	<0.0002	
11/4/2020		<0.0002				
11/9/2020			<0.0002		<0.0002	
11/10/2020				<0.0002		
11/20/2020	<0.0002					<0.0002
3/8/2021	<0.0002	<0.0002				<0.0002
3/9/2021			<0.0002	<0.0002	<0.0002	
10/12/2021	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
10/21/2021					<0.0002	
4/4/2022		<0.0002				
4/5/2022	<0.0002					
4/6/2022			<0.0002	<0.0002	<0.0002	<0.0002
Mean	0.0001912	0.0001962	0.0001918	0.0001915	0.0001905	0.0002115
Std. Dev.	3.19E-05	1.387E-05	2.968E-05	3.051E-05	3.411E-05	4.16E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.00035
Lower Lim.	8.5E-05	0.00015	9.3E-05	9E-05	7.7E-05	0.0002

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/24/2022 1:37 PM View: Appendix IV - Confidence Intervals

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-2	APMW-3	APMW-4	APMW-5	APMW-6R
4/24/2018		<0.015	0.073	0.011 (J)		
4/25/2018	0.11				0.056	
6/13/2018	0.09					
6/14/2018		<0.015	0.068	0.0083 (J)	0.048	
7/23/2018	0.11					
7/24/2018		<0.015	0.065	0.0075 (J)	0.078	
9/1/2018	0.11	<0.015	0.05	0.0082 (J)	0.081	
10/1/2018		<0.015	0.061	0.0088 (J)		
10/2/2018	0.1				0.07	
11/1/2018	0.11					
11/2/2018		<0.015	0.062	0.0083 (J)	0.1	
12/6/2018	0.1			0.0093 (J)	0.069	
12/7/2018		<0.015	0.062			
2/13/2019	0.085	<0.015	0.061	0.0093 (J)	0.1	
4/5/2019						0.41 (D)
4/15/2019						0.4
5/2/2019						0.3
5/14/2019						0.36
5/29/2019						0.4
6/12/2019						0.34
6/19/2019						0.41
6/25/2019						0.37
8/8/2019	0.11	0.00079 (J)	0.073			
8/9/2019				0.012	0.15	0.48
8/30/2019	0.078	<0.015	0.065	0.011	0.088	0.42
3/16/2020		<0.015	0.072	0.01		
3/17/2020	0.081				0.079	0.47
11/5/2020		<0.015	0.067			
11/9/2020				0.0084 (J)	0.11	
11/20/2020	0.059					0.42
3/8/2021	0.055	<0.015				
3/9/2021			0.076	0.0059 (J)	0.072	0.48
10/12/2021	0.033	<0.015			0.074	
10/14/2021				0.0042 (J)		
10/20/2021						0.45 (D)
10/21/2021			0.0705 (D)			
4/5/2022	0.043	<0.015	0.071			
4/6/2022				0.005 (J)	0.074	
4/7/2022						0.5
Mean	0.08493	0.01405	0.06643	0.00848	0.08327	0.414
Std. Dev.	0.02633	0.003669	0.006662	0.002188	0.02459	0.05629
Upper Lim.	0.11	0.015	0.07095	0.009963	0.09993	0.4521
Lower Lim.	0.055	0.00079	0.06192	0.006997	0.0666	0.3759

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/24/2022 1:37 PM View: Appendix IV - Confidence Intervals

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-7	APMW-8	APMW-9
4/25/2018	0.00096 (J)	0.18	<0.015
6/13/2018			<0.015
6/14/2018	0.0062 (J)	0.17	
7/23/2018		0.17	<0.015
7/24/2018	0.0063 (J)		
9/6/2018	<0.015	0.15	<0.015
10/2/2018	<0.015	0.15	0.0009 (J)
11/1/2018		0.16	<0.015
11/2/2018	0.0066 (J)		
12/6/2018	0.0062 (J)	0.14	<0.015
2/13/2019	0.0047 (J)	0.13	<0.015
8/8/2019			<0.015
8/9/2019	<0.015	0.12	
8/30/2019	<0.015	0.11	0.00093 (J)
3/17/2020	<0.015	0.094	<0.015
11/9/2020		0.072	
11/10/2020	<0.015		
11/20/2020			<0.015
3/8/2021			<0.015
3/9/2021	<0.015	0.069	
10/12/2021	<0.015		<0.015
10/21/2021		0.056 (D)	
4/6/2022	<0.015	0.053	<0.015
Mean	0.01106	0.1216	0.01312
Std. Dev.	0.005154	0.04369	0.004956
Upper Lim.	0.015	0.1512	0.015
Lower Lim.	0.0062	0.09199	0.00093

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/24/2022 1:37 PM View: Appendix IV - Confidence Intervals

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-2	APMW-3	APMW-4	APMW-5	APMW-7
4/24/2018		<0.005	0.0016	0.00055 (J)		
4/25/2018	0.00061 (J)				0.00071 (J)	0.00046 (J)
6/13/2018	0.00034 (J)					
6/14/2018		0.00061 (J)	0.0019	0.00068 (J)	0.0006 (J)	0.00039 (J)
7/23/2018	0.00035 (J)					
7/24/2018		0.00037 (J)	0.00087 (J)	0.00036 (J)	0.0006 (J)	0.00036 (J)
9/1/2018	<0.005	<0.005	0.001 (J)	<0.005	<0.005	
9/6/2018						<0.005
10/1/2018		<0.005	<0.005	<0.005		
10/2/2018	<0.005				<0.005	<0.005
11/1/2018	<0.005					
11/2/2018		0.00072 (J)	0.001 (J)	<0.005	<0.005	<0.005
12/6/2018	<0.005			<0.005	<0.005	<0.005
12/7/2018		<0.005	0.0011 (J)			
2/13/2019	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/8/2019	<0.005	<0.005	0.0017 (J)			
8/9/2019				<0.005	<0.005	<0.005
8/30/2019	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/16/2020		<0.005	<0.005	<0.005		
3/17/2020	<0.005				<0.005	<0.005
11/5/2020		<0.005	<0.005			
11/9/2020				<0.005	<0.005	
11/10/2020						<0.005
11/20/2020	<0.005					
3/8/2021	<0.005	<0.005				
3/9/2021			<0.005	<0.005	<0.005	<0.005
10/12/2021	<0.005	<0.005		<0.005	<0.005	<0.005
10/14/2021				<0.005		
10/21/2021			<0.005			
4/5/2022	<0.005	<0.005	<0.005			
4/6/2022				<0.005	<0.005	<0.005
Mean	0.004087	0.004113	0.003278	0.004106	0.004127	0.004081
Std. Dev.	0.001892	0.001837	0.001924	0.001852	0.001807	0.001903
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.00061	0.00072	0.001	0.00068	0.00071	0.00046

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/24/2022 1:37 PM View: Appendix IV - Confidence Intervals

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-8	APMW-9
4/25/2018	0.00042 (J)	0.00081 (J)
6/13/2018		0.00027 (J)
6/14/2018	0.00049 (J)	
7/23/2018	0.0006 (J)	0.00041 (J)
9/6/2018	<0.005	<0.005
10/2/2018	<0.005	<0.005
11/1/2018	<0.005	<0.005
12/6/2018	<0.005	<0.005
2/13/2019	<0.005	<0.005
8/8/2019		<0.005
8/9/2019	<0.005	
8/30/2019	<0.005	<0.005
3/17/2020	<0.005	<0.005
11/9/2020	<0.005	
11/20/2020		<0.005
3/8/2021		<0.005
3/9/2021	<0.005	
10/12/2021		<0.005
10/21/2021	<0.005	
4/6/2022	<0.005	<0.005
Mean	0.004101	0.004099
Std. Dev.	0.001862	0.001868
Upper Lim.	0.005	0.005
Lower Lim.	0.0006	0.00081

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 5/24/2022 1:37 PM View: Appendix IV - Confidence Intervals

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-1R	APMW-2	APMW-3	APMW-8	APMW-9
4/24/2018			<0.001	0.00012 (J)		
4/25/2018	<0.001				<0.001	<0.001
6/13/2018	<0.001					<0.001
6/14/2018			<0.001	<0.001	<0.001	
7/23/2018	<0.001				<0.001	<0.001
7/24/2018			<0.001	<0.001		
9/1/2018	<0.001		<0.001	<0.001		
9/6/2018					<0.001	<0.001
10/1/2018			<0.001	<0.001		
10/2/2018	<0.001				<0.001	<0.001
11/1/2018	<0.001				<0.001	<0.001
11/2/2018			<0.001	<0.001		
12/6/2018	<0.001				<0.001	<0.001
12/7/2018			<0.001	<0.001		
2/13/2019	<0.001		<0.001	<0.001	<0.001	<0.001
3/16/2019		<0.001				
3/27/2019		<0.001				
4/3/2019		<0.001				
4/15/2019		<0.001				
5/2/2019		<0.001				
5/14/2019		<0.001				
5/28/2019		<0.001				
6/12/2019		<0.001				
8/8/2019	0.00015 (J)	<0.001	0.00084 (J)	<0.001		<0.001
8/9/2019					0.00025 (J)	
8/30/2019	0.00058 (J)	<0.001	<0.001	<0.001	0.0013	0.0016
3/16/2020		<0.001	<0.001	<0.001		
3/17/2020	<0.001				<0.001	<0.001
11/4/2020		0.00019 (J)				
11/5/2020			<0.001	<0.001		
11/9/2020					<0.001	
11/20/2020	<0.001					<0.001
3/8/2021	0.00068 (J)	<0.001	<0.001			0.00024 (J)
3/9/2021				<0.001	0.00017 (J)	
10/12/2021	<0.001	<0.001	<0.001			<0.001
10/21/2021				<0.001	<0.001	
4/4/2022		<0.001				
4/5/2022	<0.001		<0.001	<0.001		
4/6/2022					<0.001	<0.001
Mean	0.000894	0.000946	0.0009893	0.0009413	0.0009147	0.0009893
Std. Dev.	0.0002439	0.0002091	4.131E-05	0.0002272	0.0002967	0.0002586
Upper Lim.	0.001	0.001	0.001	0.001	0.0013	0.0016
Lower Lim.	0.00068	0.00019	0.00084	0.00012	0.00025	0.00024